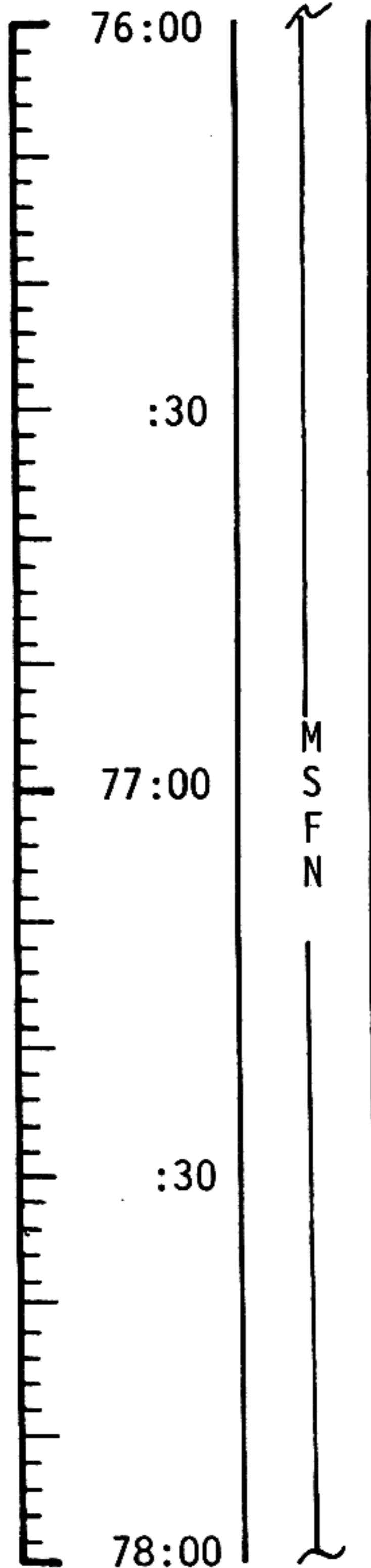


MCC-H

1422 CST

FLIGHT PLAN

NOTES



UPLINK TO CSM
STATE VECTOR &
MCC-4 TGT LOAD
DESIRED ORIENT
(LDG SITE) V66

UPDATE TO CSM
MCC-4 MNVR PAD
CONSUMABLES
FLIGHT PLAN
PERICYNTHION +2
ABORT PAD

BATTERY CHARGE,
BATTERY A

EAT PERIOD

LiOH CANISTER CHANGE
NO. 7 (9 INTO A, STOW
7 IN B6)

P52 IMU REALIGN
OPTION 1 - PREFERRED
REPORT GYRO TORQUING ANGLES

P30 - EXTERNAL ΔV

POSTSLEEP CHECKLIST:
CREW STATUS REPORT
CONSUMABLES UPDATE
CYCLE H2 & O2 FANS
FLIGHT PLAN UPDATE
NORMAL LUNAR COMM EXCEPT:
S-BD AUX TAPE - OFF
TAPE RCDR FWD - OFF
S-BD ANT - OMNI
S-BD ANT OMNI - B

CSM CONSUMABLES UPDATE

GET: _____ : _____

RCS TOTAL _____ %

QUAD A _____ % B _____ %

 C _____ % D _____ %

H₂ TOTAL _____ %

O₂ TOTAL _____ %

CREW STATUS REPORT

	CDR	CMP	LMP
SLEEP	_____	_____	_____
PRD	_____	_____	_____

IF MCC-4 IS NOT
PERFORMED SEE:
NO MCC-4 ALTERNATE
TIMELINE

PERICYNTHION + 2
ABORT PAD
TARGETED FOR A
FAST RETURN TO MPL

P52 (LDG SITE ORIENT)
OPTION 1 - PREFERRED

N71: _____ , _____

N05: _____ . _____

N93: _____

X _____ . _____

Y _____ . _____

Z _____ . _____

GET _____ : _____ : _____

PTC
P 90 Y 0

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	76:00 - 78:00	A/TLC	3-52

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FLIGHT PLAN

MCC-4 BURN TABLE

P OR Y RATES	ATT DEVIATION	SHUTDOWN TIME	RESIDUALS
10°/SEC TAKEOVER	+10° TAKEOVER	BT + 1 SEC	TRIM X AXIS ONLY TO 1.0 FPS

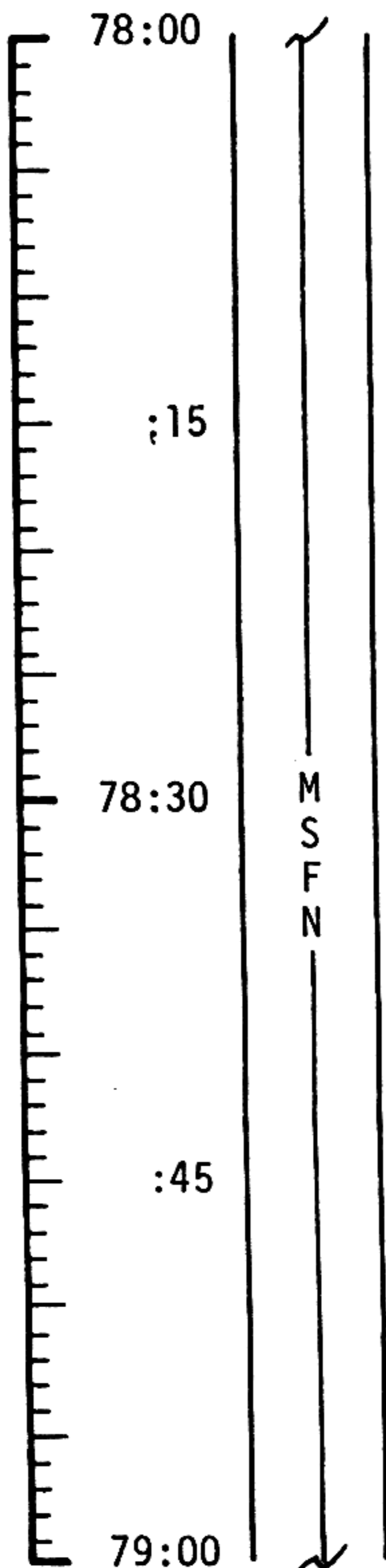
TABLE 3-5
3-53

MCC-H

1622 CST

FLIGHT PLAN

NOTES



V49 - MNVR TO BURN ATT

SXT STAR CHECK

P40/P41 - SPS/RCS THRUST

GDC ALIGN TO IMU

MCC-4

V66 - TRANSFER CSM SV TO LM SLOT

MCC-4 BURN STATUS REPORT

REPORT LM/CM ΔP

TIG: 78:25:18.2
ΔV: NOMINALLY ZERO

MCC-4 WILL BE EXECUTED WITH THE SPS IF THE BURN TIME >3 SEC

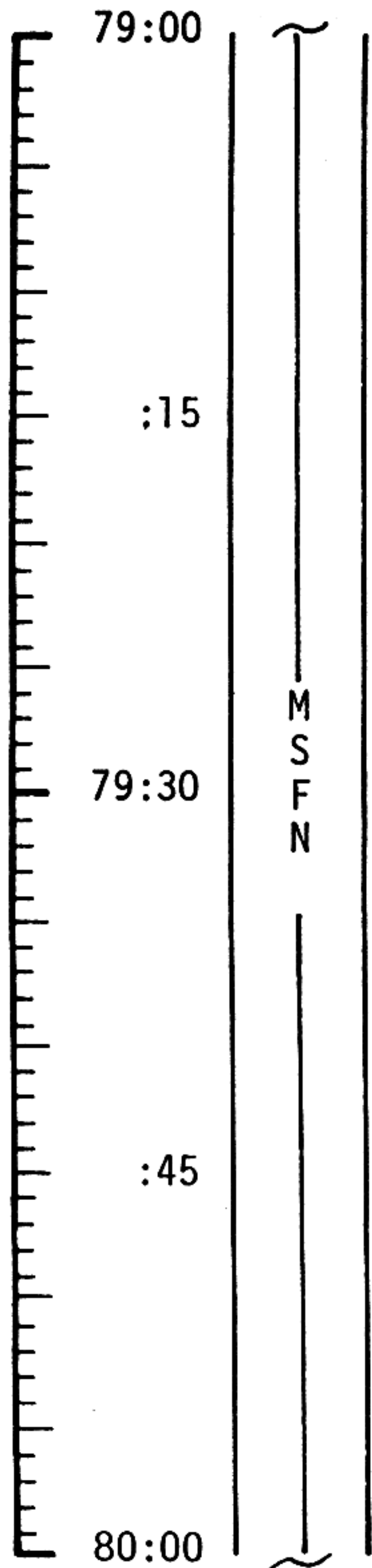
BURN STATUS REPORT				
X	X	<input type="checkbox"/>	•	ΔTIG
X	X		•	BT
<input type="checkbox"/>			•	V _{gx}
TRIM				
X	X	X		R
X	X	X		P
X	X	X		Y
<input type="checkbox"/>			•	V _{gx}
<input type="checkbox"/>			•	V _{gy}
<input type="checkbox"/>			•	V _{gz}
<input type="checkbox"/>			•	ΔV _c *
X	X	X		FUEL *
X	X	X		OX *
X	X	X		UNBAL

* ITEMS TO BE REPORTED TO MSFN

(LOI-1 - 5 HRS)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	78:00 - 79:00	4/TLC	3-54

FLIGHT PLAN



PRE LOI SEC LOOP CHECK
 ECS IND SW - SEC
 SEC GLY TO RAD VLV - NORM
 SEC COOL LOOP PUMP - AC 1
 GLY DISCHARGE SEC PRESS-39-51 PSIA
 ACCUM SEC QTY IND-30-55%
 SEC EVAP TEMP OUT - DECREASE
 (VERIFY FLOW)
 SEC COOL LOOP PUMP - OFF (CTR)
 SEC GLY TO RAD VLV - BYPASS
 ECS IND SW - PRIMARY

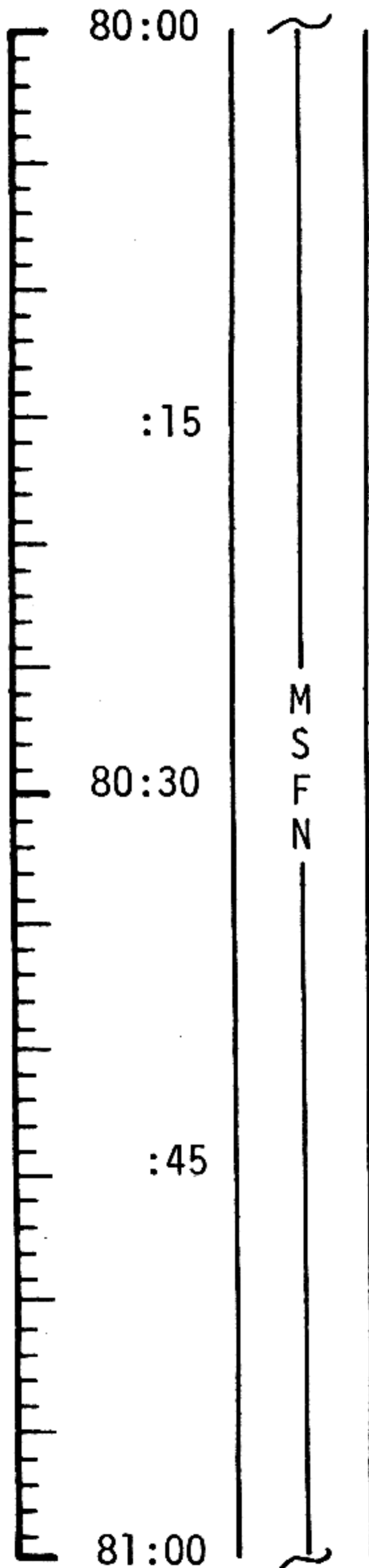
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	79:00 - 80:00	4/TLC	3-55

MCC-H

1822 CST

FLIGHT PLAN

NOTES



PRESSURIZE CSM TO 5.4 PSIA THEN:
 PRESSURIZE LM
 (IN CASE OF LOI ABORT)

LM TUNNEL VENT VLV - CM/LM ΔP

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	80:00 - 81:00	4/TLC	3-56

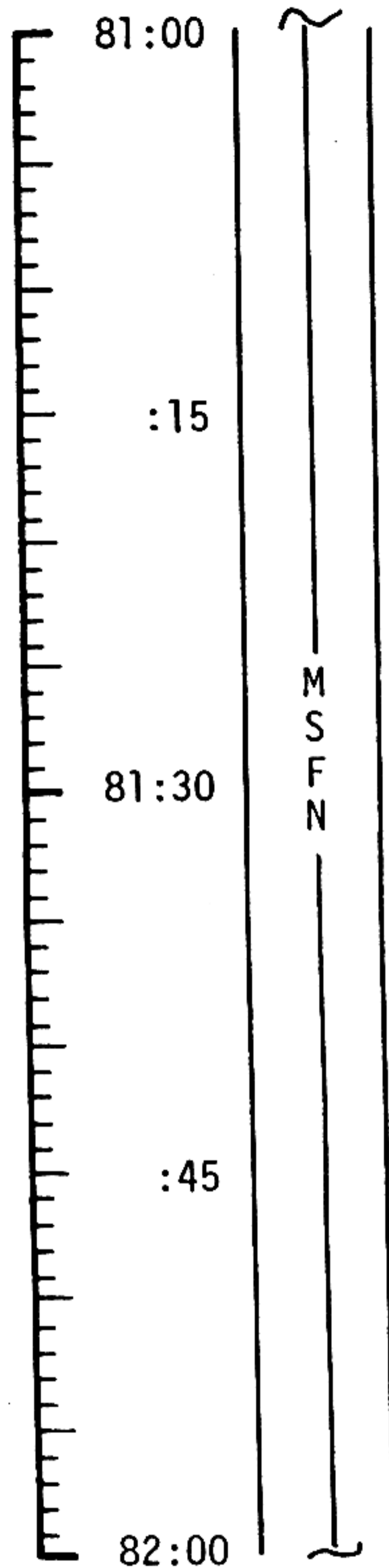
MCC-H

1922 CST

FLIGHT PLAN

NOTES

UPLINK TO CSM
 STATE VECTOR & V66
 (PRELIMINARY)
 LOI-1 TGT LOAD
 (PRELIMINARY)
 UPDATE TO CSM
 LOI-1 MNVR PAD
 (PRELIMINARY)
 TEI 1 & 4 PAD



MNVR TO MOON VIEW ATT BY 81:10
 AND GO INERTIAL R 187 HGA
 P 186 P 4
 Y 20 Y 207

P52 - IMU REALIGN
 OPTION 3 - REFSMMAT

REPORT GYRO TORQUING ANGLES

TV (GDS) 81:30 TO 81:50
 CM4/TV-IN (f22)

MNVR TO BURN ATT BY 81:55
 EXCEPT FOR ROLL R 124 HGA
 P 261 P -18
 Y 19 Y 251

P52 (LDG SITE ORIENT)
 N71: _____
 N05: _____
 N93: _____
 X _____
 Y _____
 Z _____
 GET _____:_____:_____

TEI 1 & 4 PADS
 ASSUME NO LOI-2

FOV 3°
 GET 81:10



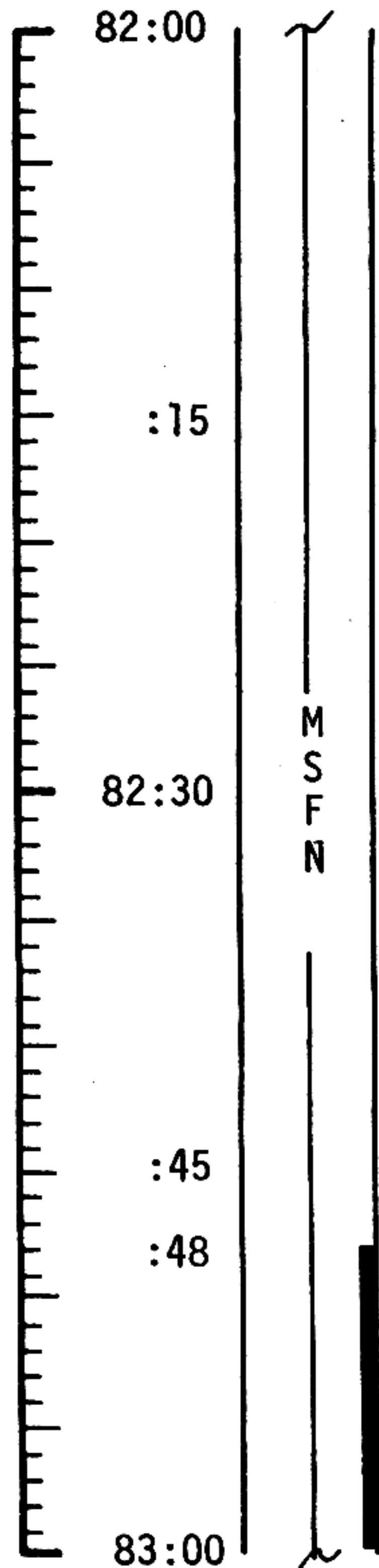
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	81:00 - 82:00	4/TLC	3-57

MCC-H

2022 CST

FLIGHT PLAN

NOTES



UPDATE TO CSM
 MAP UPDATE REV 1
 LOI-1 MNVR PAD

UPLINK TO CSM
 STATE VECTOR & V66
 LOI-1 TGT LOAD

MAP UPDATE REV	<u>1</u>
LOS	-----:-----:
180°	-----:-----:
AOS WITH LOI	-----:-----:
AOS WITHOUT LOI	-----:-----:

PRE LOI-1 SYSTEMS CHECKS:
 C&W CHECK
 CM RCS CHECK
 SM RCS CHECK
 SPS PERIODIC MONITOR
 ECS PERIODIC MONITOR

P30 - EXTERNAL ΔV
 P40 - SPS THRUST

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	82:00 - 83:00	4/TLC	3-58

FLIGHT PLAN

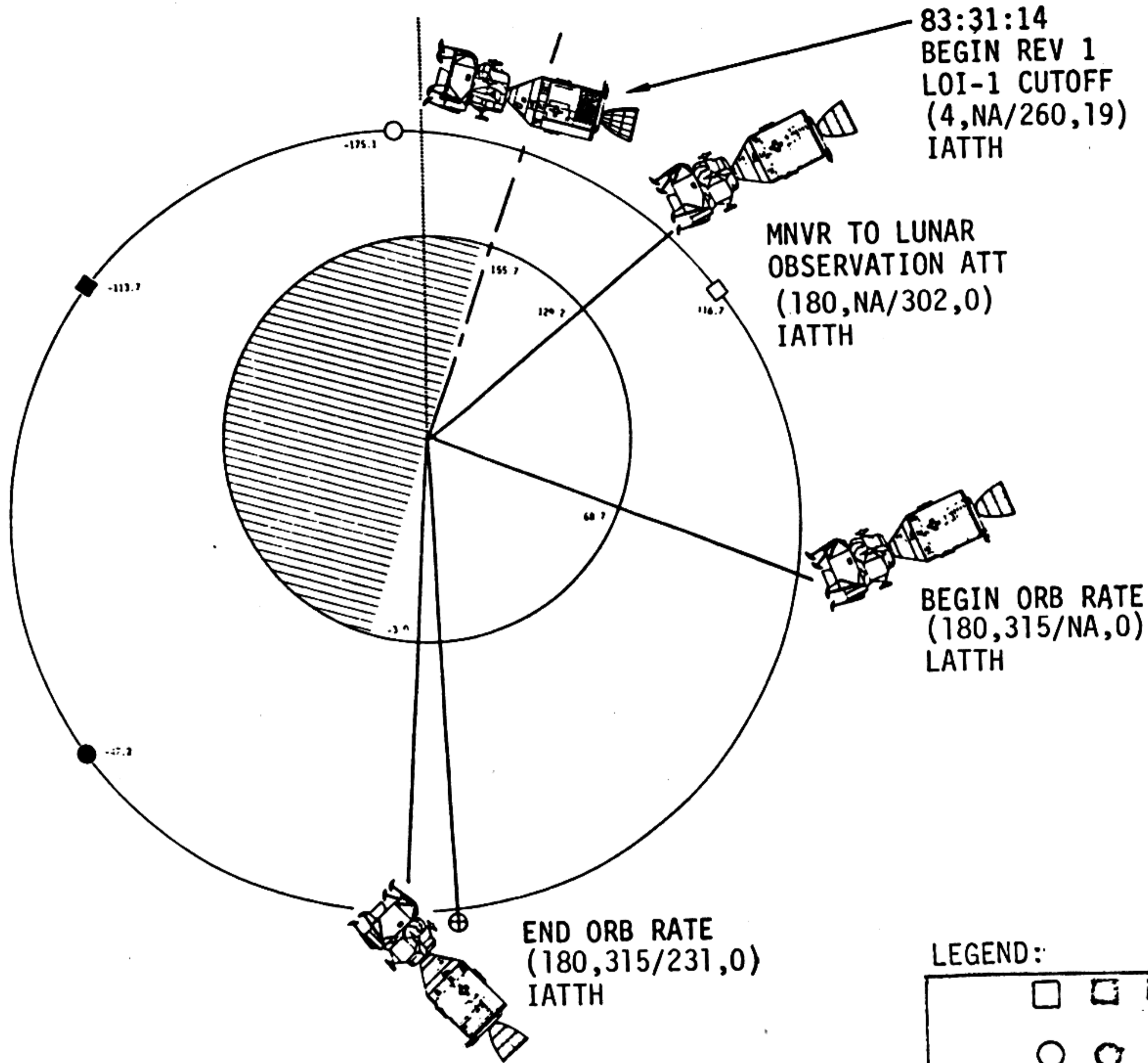
LOI-1
BURN TABLE
TABLE 3-6

P OR Y RATES	ATT DEVIATION	SHUTDOWN TIME	RESIDUALS
10°/SEC TAKEOVER	+10° TAKEOVER	BT + 10 SEC	DO NOT TRIM

LOI-1 ABORT TABLE
TABLE 3-7

MODE I (DPS ONLY)	MODE IA (DPS+APS)	MODE IIA (DPS APS)	MODE II (DPS ONLY)	MODE III (DPS ONLY)	
0-20 SEC. BT	20-40 SEC. BT	40SEC-1MIN 30 SEC	1MIN 30SEC-2MIN 24SEC	2MIN 24SEC - 2MIN 50SEC	2MIN 50SEC - END OF BURN
ΔV_m 0-135 (Tight)	ΔV_m 135-280 (Tight)	ΔV_m 280-650 (Tight)	ΔV_m 650-750 (Loose)	ΔV_m 750-1250 (Loose)	ΔV_m 1250-1600 (Loose)
LOI + 2HR.	LOI + 0.5HR.	DPS @ LOI+1/2HR.	DPS ₁ @ LOI + 2HR DPS ₂ @ LOI + 1REV	DPS ₁ @ LOI + 2HR DPS ₂ @ LOI + 1REV.	ΔV_m 1600-Cutoff (Tight)
MCC-H TGT.	CREW CHART TGT	CREW CHART TGT	MCC-H TGT.	MCC-H TGT.	DPS @ LOI + 1REV. MCC-H TGT
		*APS @ LOI+ 2 1/2 HR. MCC-H TGT	APS ASAP AFTER DPS ₂		
		*SPS BACKUP	MCC-H TGT (CONT. OF DPS ₂)		

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3-59A

LEGEND:

□	□	MSFN AOS, LOS
○	⊙	S/C SUNRISE, SUNSET
	⊕	SUBEARTH POINT
(R,LHP/INP,Y)		
IATTH - INERTIAL ATTITUDE HOLD		
LATTH - LOCAL ATTITUDE HOLD.		

REVISION B

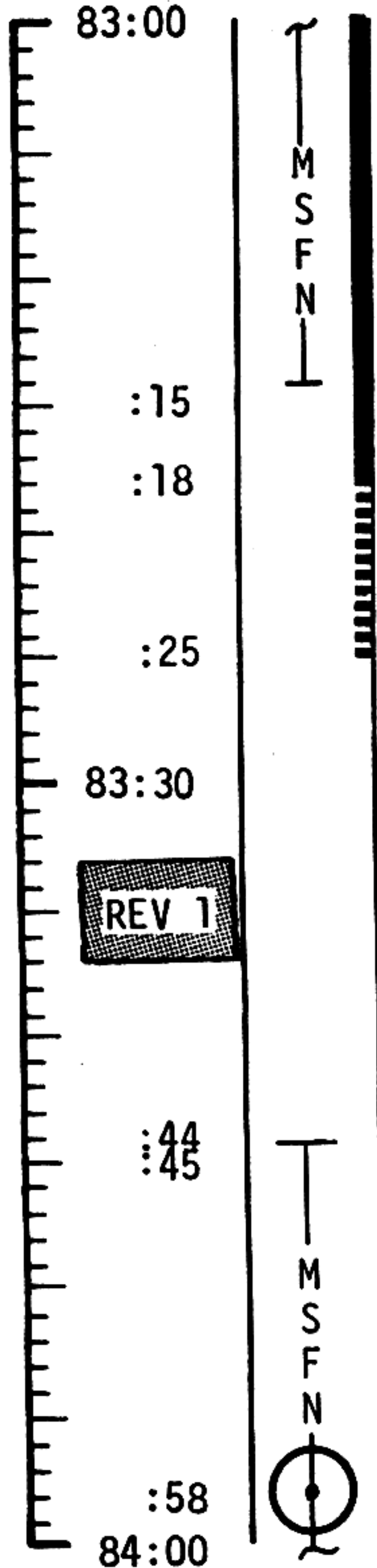
MCC-H

2122 CST

FLIGHT PLAN

NOTES

UPDATE TO CSM
GO/NO-GO LOI-1



ROLL TO BURN ATT R 4 OMNI D
P 261
SXT STAR CHECK Y 19
VERIFY DSE MOTION AT LOS

GDC ALIGN TO IMU

LOI-1

TIG: 83:25:18.2
BT: 5 MIN 55.4 SEC
 ΔV_R : 2889.9 FPS
ULLAGE: NONE
ORBIT: 58.7 x 168.9 NM

V66 - TRANSFER CSM STATE VECTOR TO LM SLOT
MNVR TO COMM ATT AND
GO INERTIAL BY 83:40

ACQUIRE MSFN R 180 HGA:
P 302 P -68
Y 0 Y 339

LOI-1 BURN STATUS REPORT
LUNAR SURFACE OBSERVATION ATTITUDE
(HATCH WINDOW) - HEADS DOWN
GO ORB RATE BY 84:00

BURN STATUS REPORT				
X	X	<input type="checkbox"/>	•	Δ TIG **
X	X		•	BT **
<input type="checkbox"/>			•	V _{gx}
TRIM				
X	X	X		R
X	X	X		P
X	X	X		Y
<input type="checkbox"/>			•	V _{gx} ***
<input type="checkbox"/>			•	V _{gy} ***
<input type="checkbox"/>			•	V _{gz} ***
<input type="checkbox"/>			•	ΔV_c *
X	X	X		FUEL *
X	X	X		OX *
X	X	X		UNBAL

* ITEMS TO BE REPORTED TO MSFN
** REPORT IF OFF MORE THAN ONE SECOND
*** REPORT IF >0.2 FPS
LOI-1 WILL BE STARTED WITH THE SPS PU VALVE IN INCREASE

DUMP DSE

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	83:00 - 84:00	4/1	3-60

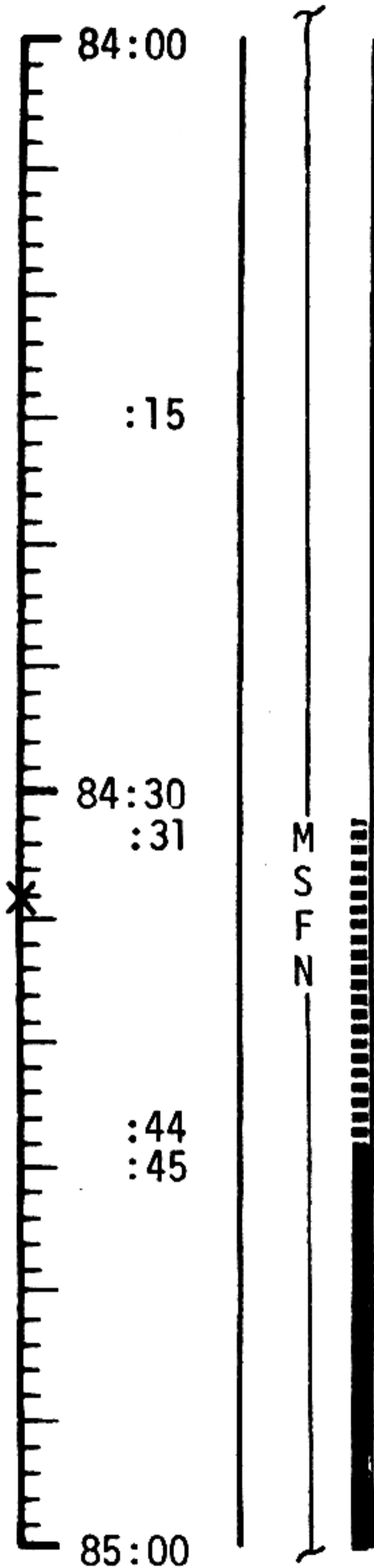
MCC-H

2222 CST

FLIGHT PLAN

NOTES

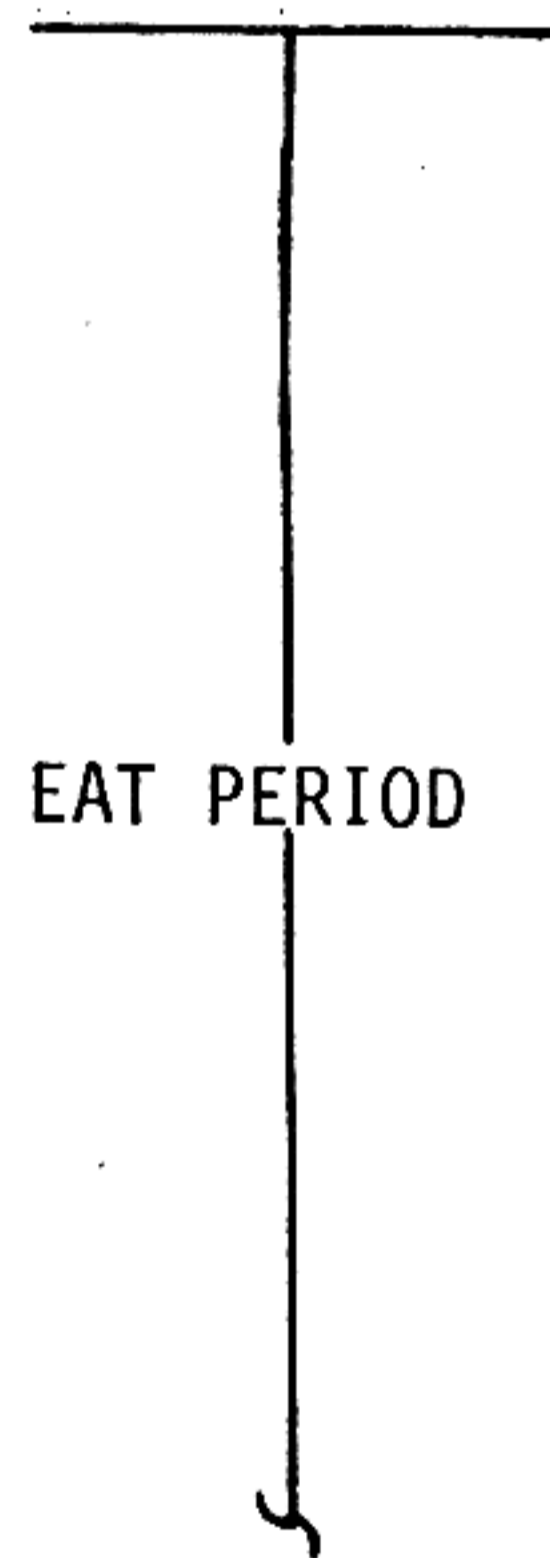
TV (GDS) 84:00 TO 84:30
CM 4/TV - IN(f22)



STOP ORB RATE PITCH AT 231 AND GO INERTIAL
BY 84:27

R 180 HGA
P 231 P -38
Y 0 Y 189

UPDATE TO CSM
MAP UPDATE REV 2



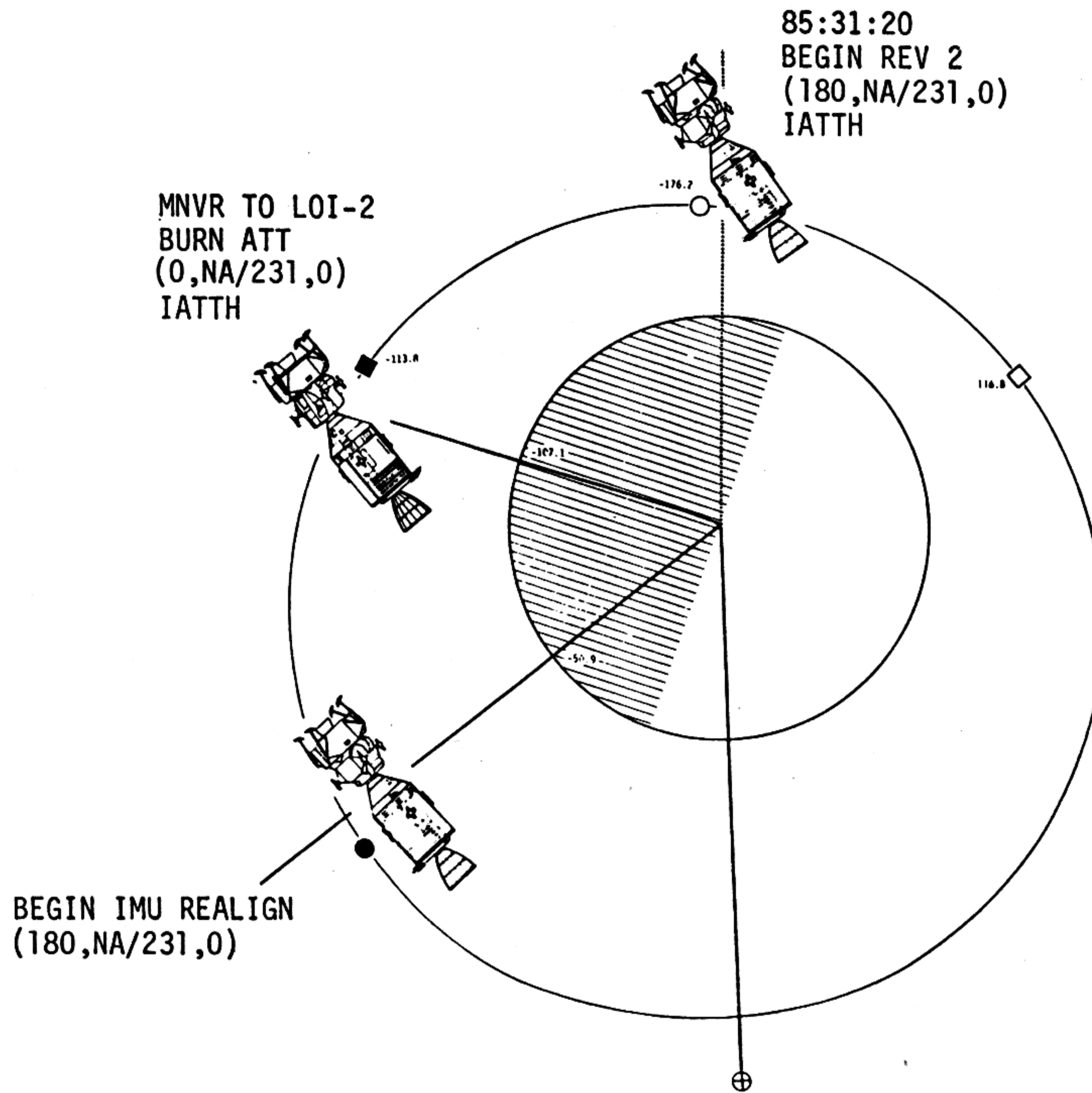
MAP UPDATE REV	<u>2</u>
LOS	: _____ : _____ : _____
180°	: _____ : _____ : _____
AOS	: _____ : _____ : _____

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
Apollo 12	FINAL (NOV 14)	OCTOBER 15, 1969	84:00 - 85:00	4/1	3-61

MSC Form 29 OT (Mar. 69)

FLIGHT PLANNING BRANCH

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LEGEND:

□ □	MSFN AOS, LOS
○ ○	S/C SUNRISE, SUNSET
⊕	SUBEARTH POINT
(R,LHP/INP,Y)	
IATTH - INERTIAL ATTITUDE HOLD	
LATTH - LOCAL ATTITUDE HOLD	

3-61A

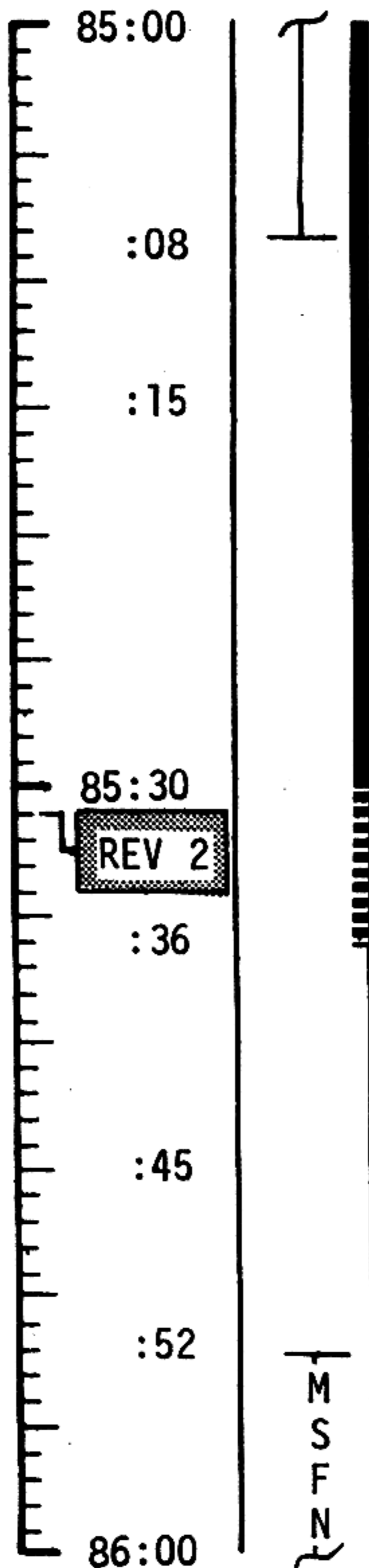
REVISION B

MCC-H

FLIGHT PLAN

NOTES

2322 CST



H₂ PURGE LINE HTRS - ON

VERIFY DSE MOTION AT LOS
EAT PERIOD

H₂ AND O₂ FUEL CELL PURGE
WASTE WATER DUMP

REACQUIRE MSFN
HGA P -38 Y 189

DUMP DSE

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	85:00 - 86:00	4/1	3-62

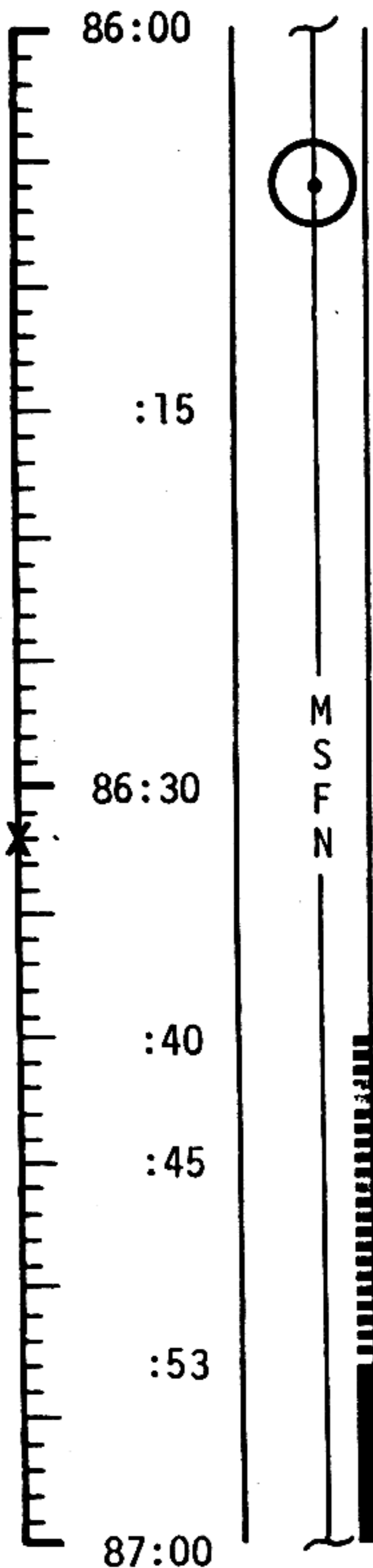
MCC-H

0022 CST

FLIGHT PLAN

NOTES

UPLINK TO CSM
 CSM STATE VECTOR
 & V66
 LOI-2 TARGET LOAD
 UPDATE TO CSM
 LOI-2 MNVR PAD
 TEI 5 PAD
 MAP UPDATE REV 3



CMP - PRE LOI -2 SYSTEMS CHECKS
 C&W CHECK
 CM RCS CHECK
 SPS PERIODIC MONITOR CHECK
 ECS PERIODIC MONITOR CHECK

P52 IMU REALIGN
 OPTION 3 REFSMMAT

TEI 5 BLOCK DATA
 ASSUMES LOI-1 & LOI-2
 ACCOMPLISHED

MAP UPDATE REV <u>3</u>		
LOS	: _____	: _____
180°	: _____	: _____
AOS	: _____	: _____

P52 (LDG SITE ORIENT)		
N71:	_____	_____
N05:	_____	_____
N93:	_____	_____
X	_____	_____
Y	_____	_____
Z	_____	_____
GET	_____	_____

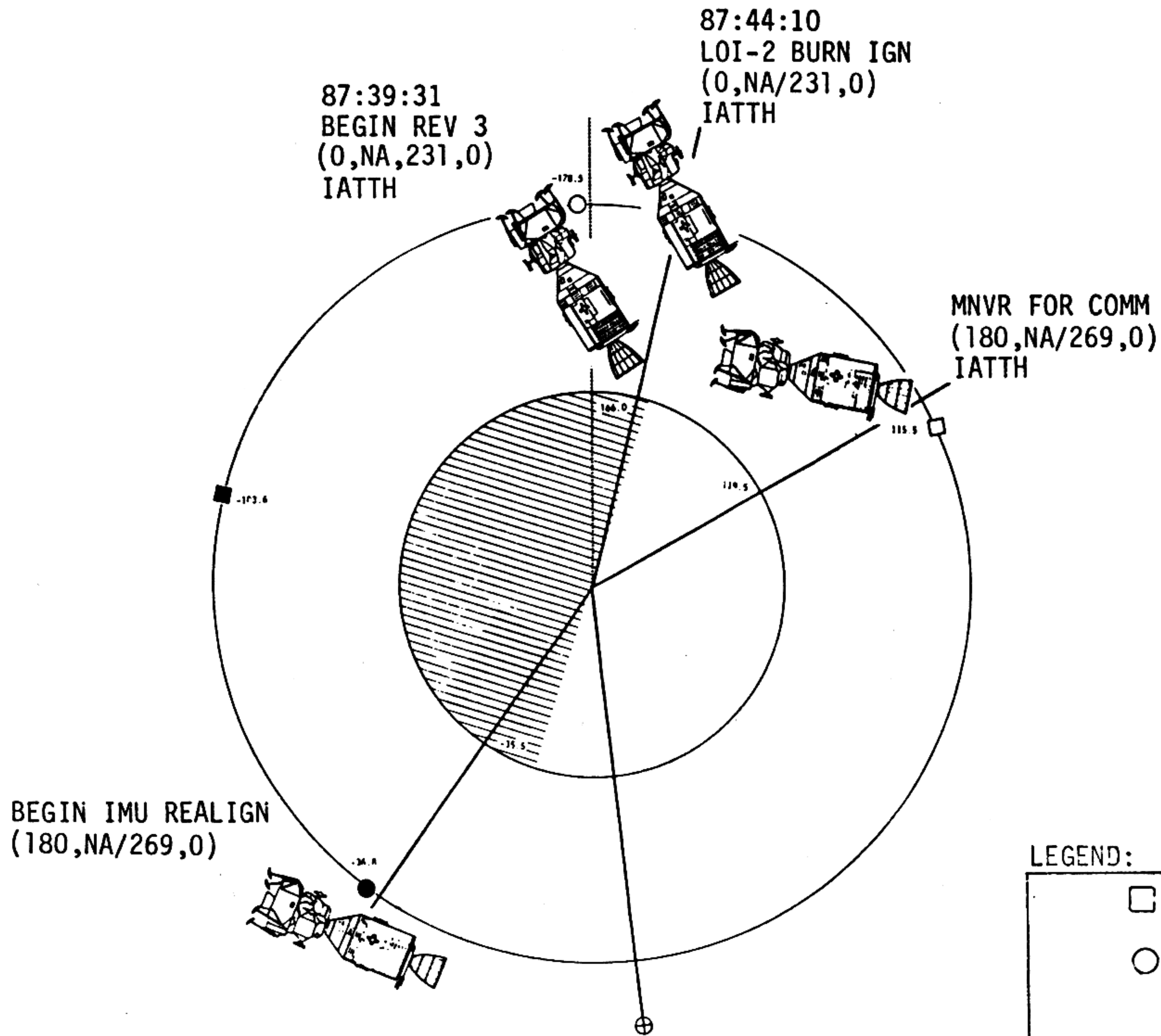
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	86:00 - 87:00	4/2	3-63

FLIGHT PLAN

LOI-2 BURN TABLE

P OR Y RATES	ATT DEVIATION	SHUTDOWN TIME	RESIDUALS
10°/SEC TAKEOVER	+10° TAKEOVER	BT + 1 SEC	TRIM X AXIS TO 1 FPS

TABLE 3-8
3-64



LEGEND:

□	MSFN AOS, LOS
○	S/C SUNRISE, SUNSET
⊕	SUBEARTH POINT

(R,LHP/INP,Y)

IATTH - INERTIAL ATTITUDE HOLD
 LATTH - LOCAL ATTITUDE HOLD

MCC-H

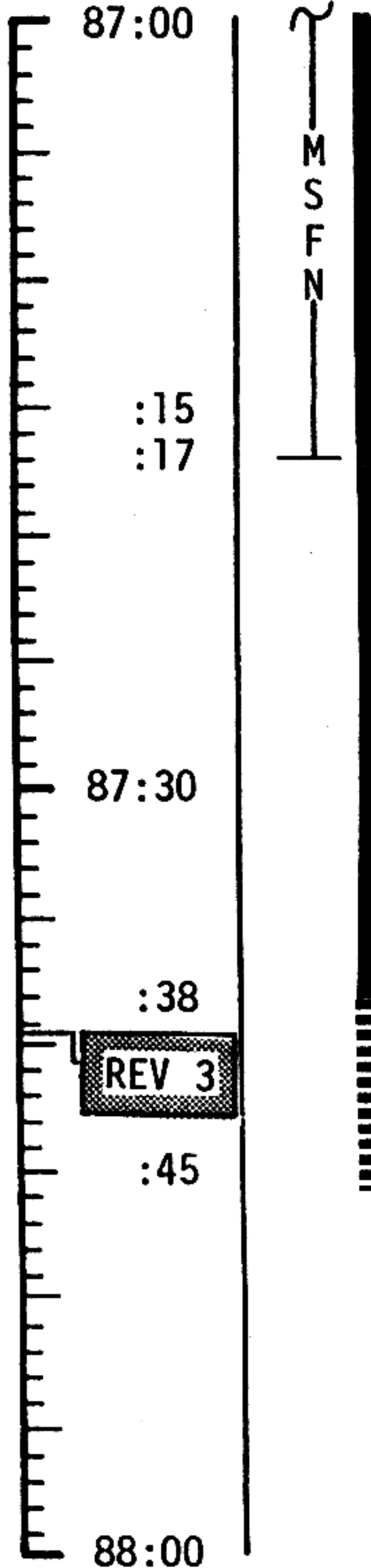
0122 CST

FLIGHT PLAN

NOTES

PIPA BIAS CHECK

GO/NO GO FOR LOI-2



DRIFT CHECK

REPORT GYRO TORQUING ANGLES

P30 EXTERNAL ΔV

LOAD DAP FOR 2 JET ULLAGE (20101) (11111)

V49 MNVR TO LOI-2 BURN ATT BY 87:15

SXT STAR CHECK R 0 OMNI D

P40 - SPS THRUST P 231

VERIFY DSE MOTION AT LOS Y 0

P52 (LDG SITE ORIENT)

N71: _____

N05: _____

N93: _____

X _____

Y _____

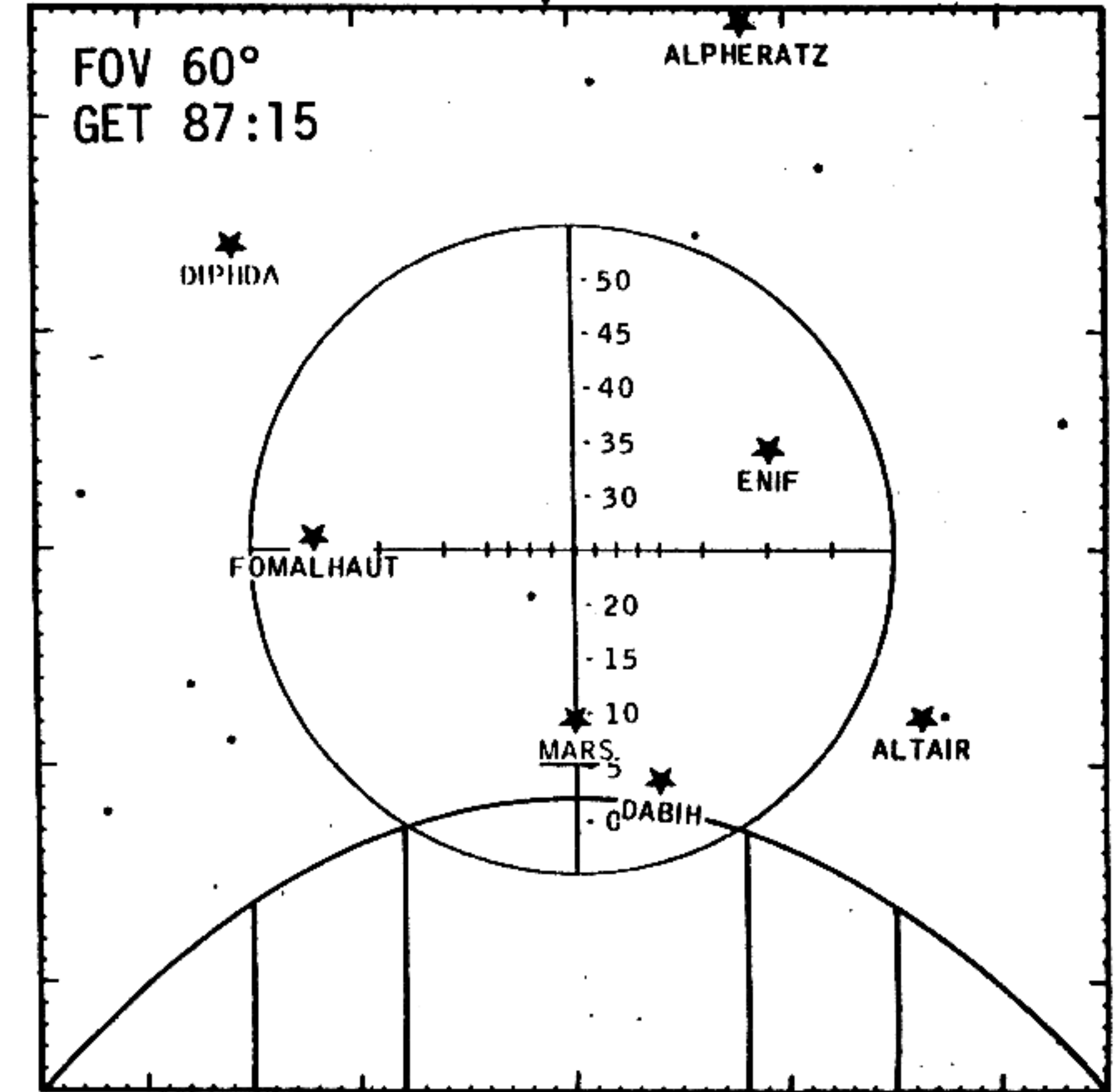
Z _____

GET _____:_____:_____

TIG: 87:44:10.0
 BT: 17.6 SEC
 ΔVR: 169.6 FPS
 ULLAGE: 2 JET 19.0 SEC
 RETROGRAGE
 ORBIT: 64.9X53.0
 TRIM X AXIS TO 1 FPS

GDC ALIGN TO IMU

LOI-2



V66 TRANSFER CSM STATE VECTOR TO LM SLOT

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	87:00 - 88:00	4/2-3	3-65

MCC-H

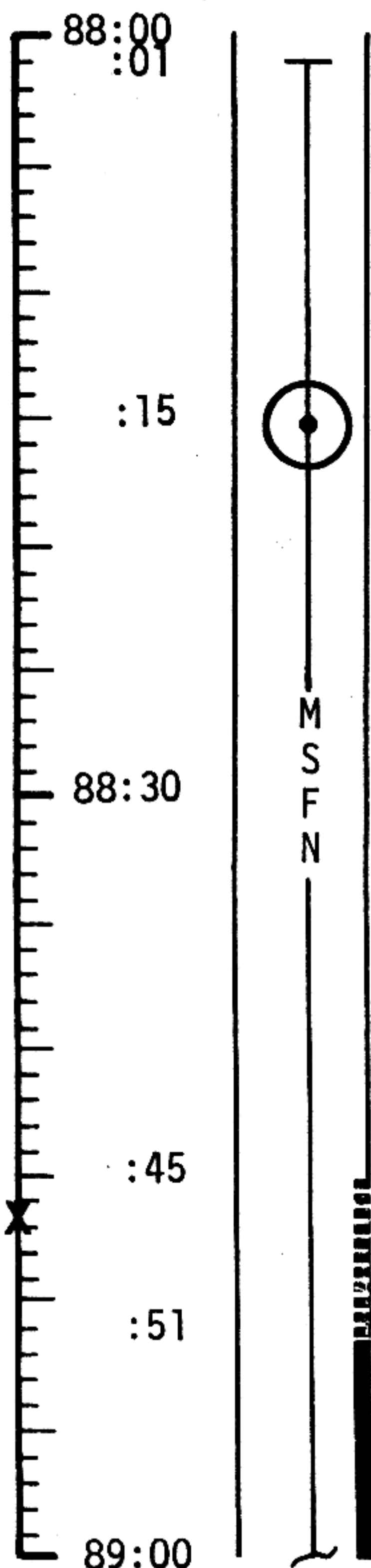
0222 CST

FLIGHT PLAN

NOTES

DUMP DSE

UPDATE TO CSM
LDMK TRACK PAD
MAP UPDATE REV 4



MNVR TO COMM ATTITUDE AND
GO INERTIAL R 180 HGA
BY 88:00 P 269 P -71
Y 0 Y 206

BATTERY CHARGE, BATTERY B

LOI -2 BURN STATUS REPORT

EQUALIZE CM/LM PRESSURE
TUNNEL VENT VALVE - LM PRESS

LiOH CANISTER CHANGE NO. 8
10 INTO B, STOW 8 IN B6

P52 IMU REALIGN
OPTION 3 REFSMMAT

P52 (LDG SITE ORIENT)

N71: _____

N05: _____

N93: _____

X _____

Y _____

Z _____

GET _____ : _____ : _____

BURN STATUS REPORT				
X	X	<input type="checkbox"/>	•	ΔTIG**
X	X		•	BT**
<input type="checkbox"/>			•	V _{gx}
TRIM				
X	X	X		R
X	X	X		P
X	X	X		Y
<input type="checkbox"/>			•	V _{gx} ***
<input type="checkbox"/>			•	V _{gy} ***
<input type="checkbox"/>			•	V _{gz} ***
<input type="checkbox"/>			•	ΔV _C *
X	X	X		FUEL*
X	X	X		OX*
X	X	X		UNBAL

MAP UPDATE REV 4

LOS : _____ : _____ : _____

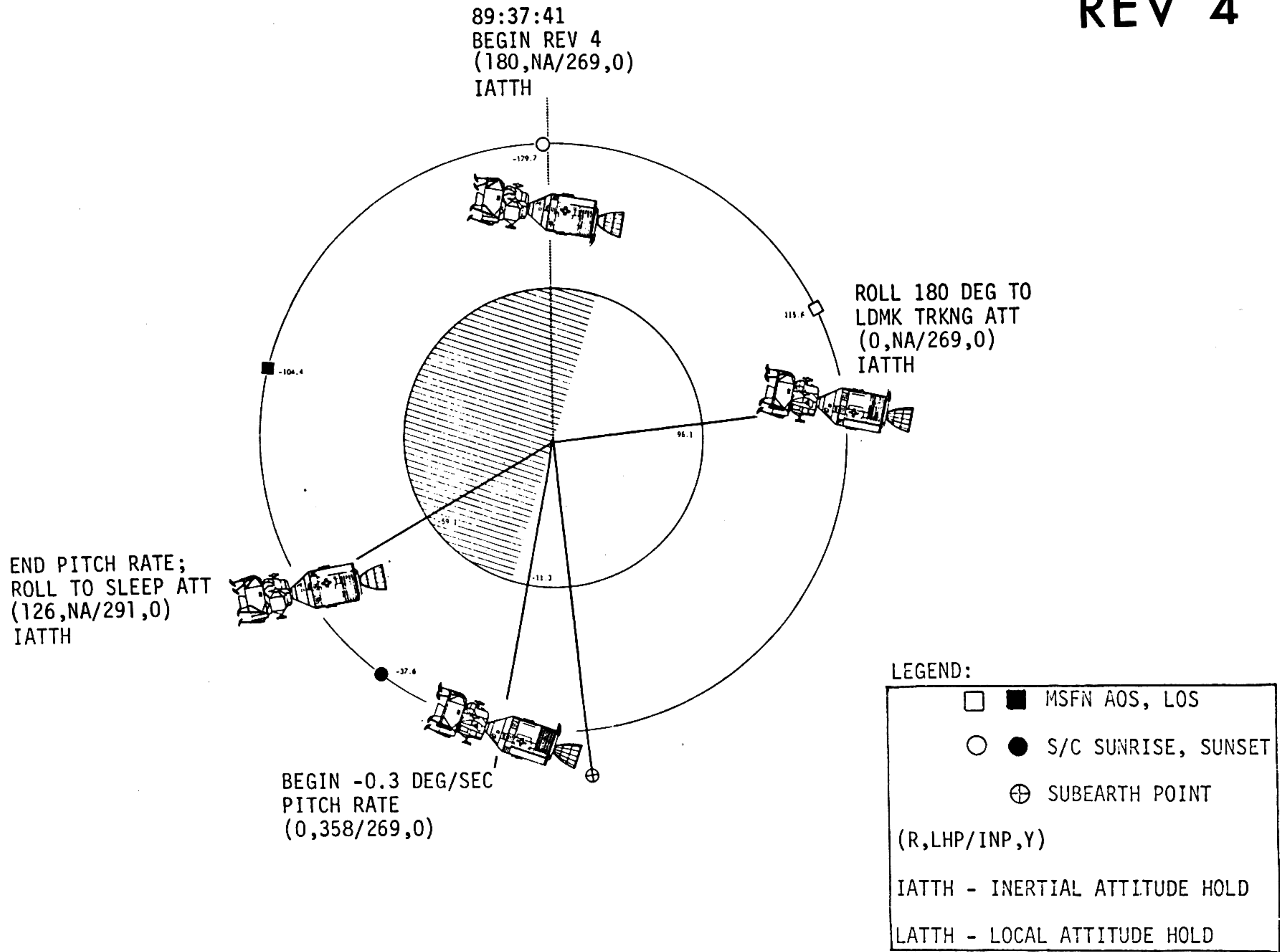
180° : _____ : _____ : _____

AOS : _____ : _____ : _____

*ITEMS TO BE REPORTED
TO MSFN
**REPORT IF OFF MORE
THAN 1 SEC
***REPORT IF >0.2 FPS

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	88:00 - 89:00	4/3	3-66

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3-66A

REVISION B

FLIGHT PLAN

CSM

LM

mCC-H

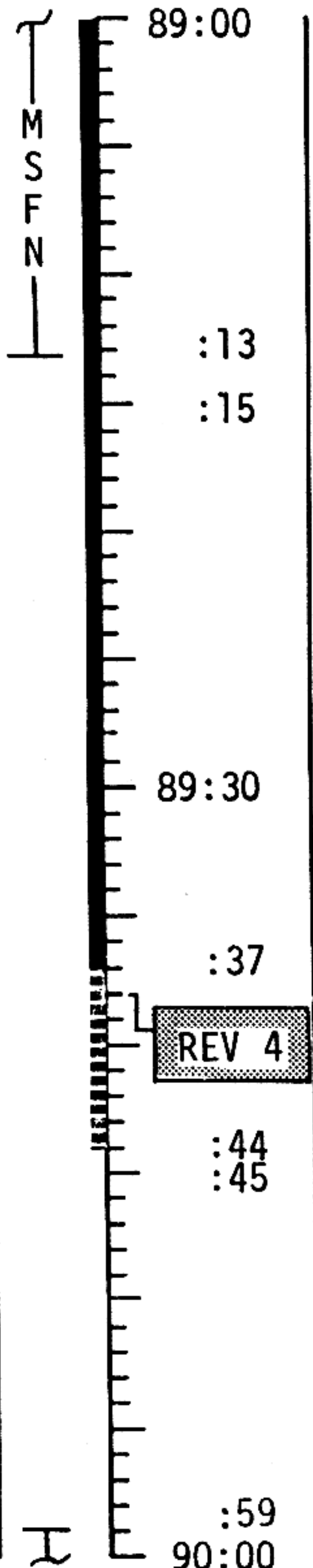
CMP

0322 CST

CDR

LMP

REPORT GYRO TORQUING ANGLES
 GDC ALIGN TO IMU
 PREPARE FOR LM INGRESS
 VERIFY TUNNEL PRESS
 REMOVE HATCH & STOW
 INSPECT DOCKING LATCHES
 REMOVE & STOW PROBE AND
 DROGUE
 VERIFY DOCKING ANGLE
 VERIFY DSE MOTION AT LOS



		OPEN LM HATCH IVT TO LM	
		LM ENTRY STATUS CHECKS	
IVT TO LM		PERFORM HOUSEKEEPING CHORES 1. STOW HELMET STOWAGE BAGS. UNSNAP BOTH HSB'S 2. UNSTOW 70MM & 16MM FILM BAGS 3. PUT UP SNAP STRAPS	
AID LMP AS REQUIRED			

REACQUIRE MSFN
 HGA P -71 Y 206

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	89:00 - 90:00	4/3-4	3-67

FLIGHT PLANNING BRANCH

REVISION B

DOCKED LANDMARK TRACKING PROFILE

2 DEG PITCH DOWN FROM LOCAL HORIZONTAL BEGIN
0.3 DEG/SEC PITCH DOWN AT AOS.

T1 GET AT 0° ELEVATION
T2 GET AT 35° ELEVATION

HORIZON

HORIZON

LANDMARK

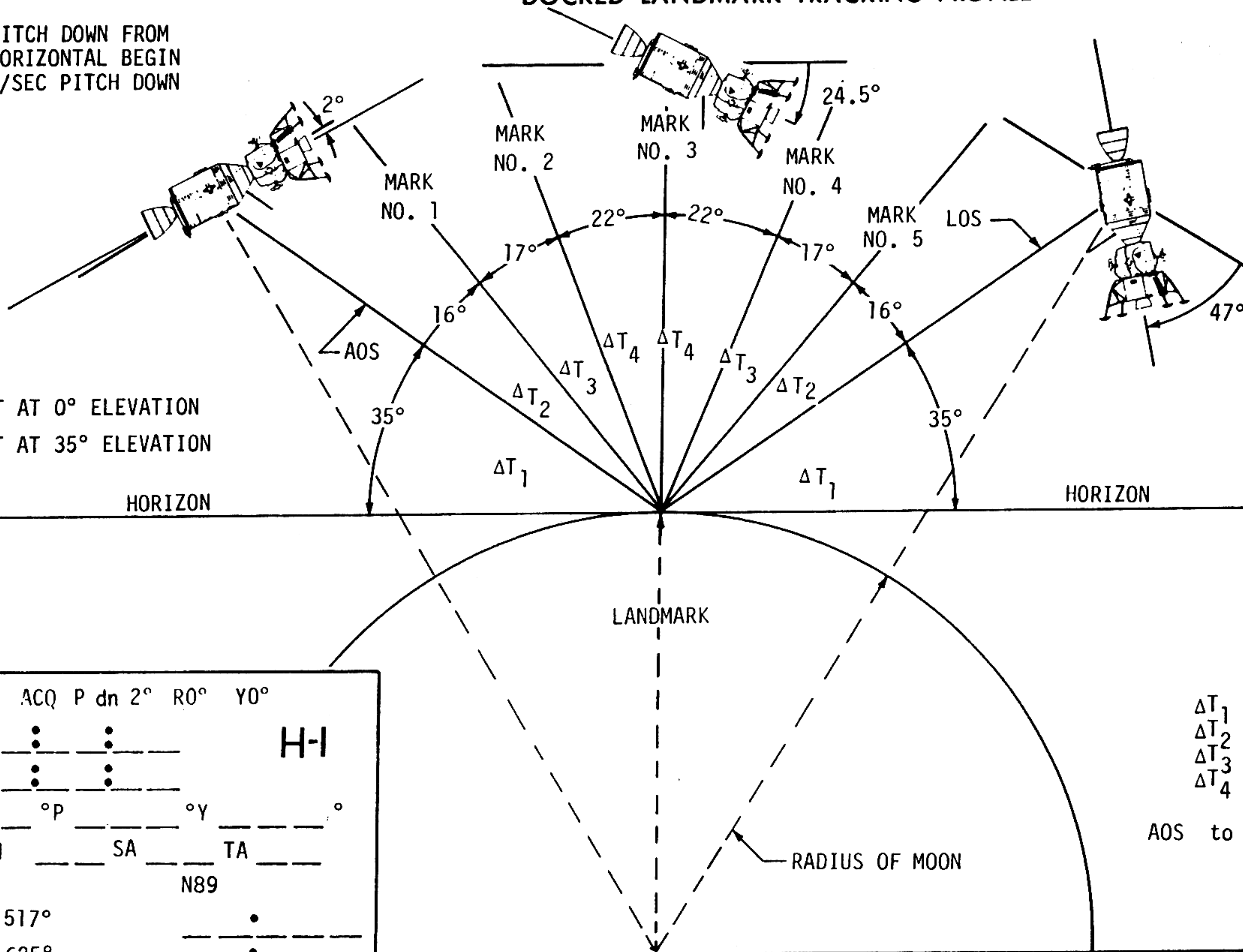
CENTER OF MOON

RADIUS OF MOON

$\Delta T_1 = 300 \text{ SEC}$
 $\Delta T_2 = 40 \text{ SEC}$
 $\Delta T_3 = 25 \text{ SEC}$
 $\Delta T_4 = 25 \text{ SEC}$
 AOS to LOS = 3 MIN

P22	AUTO	ACQ	P dn 2°	RO°	YO°
T ₁	---	•	•	---	H-I
T ₂	---	•	•	---	
R	---	°p	---	°γ	---
N or S	NM	---	SA	---	TA
CP	---	---	N89	---	---
LAT	-1.517°	---	---	---	---
LONG/2	-7.625°	---	---	---	---
ALT	-1.94 N MI	---	---	---	---

FIGURE 3-1
3-68



FLIGHT PLAN

CSM
CMP

0422 CST

LM

MCC-H

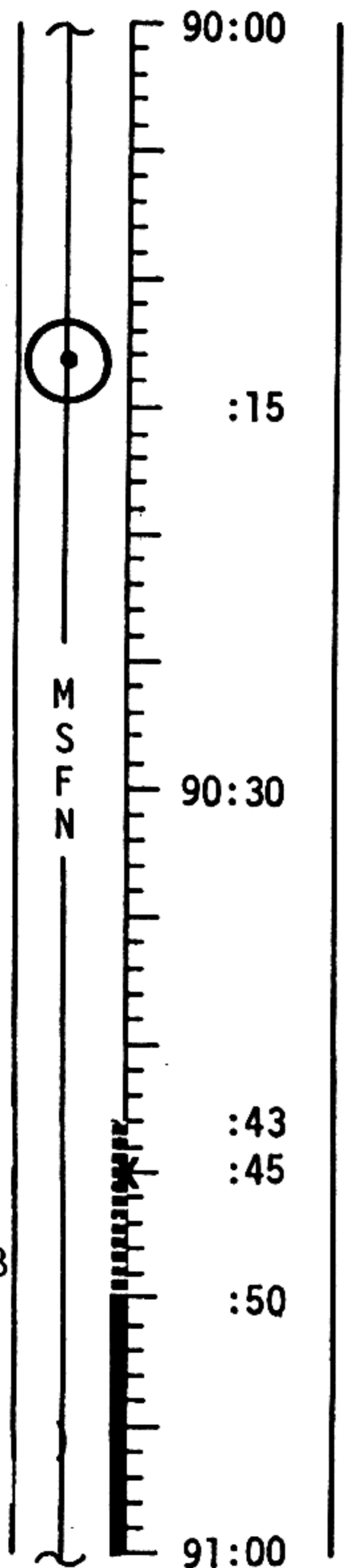
ROLL 180 DEG TO
LDMK TRACK
ATTITUDE BY 90:06
R 0
P 269
Y 0

GO INERTIAL
SELECT OMNI D

P22 ORBITAL NAV
ESTABLISH 0.3°/SEC
PITCH DOWN @ T2

TRACK LDMK H-1
DO NOT PRO ON
FINAL N89,
25 SEC BETWEEN MARKS
5 MARKS

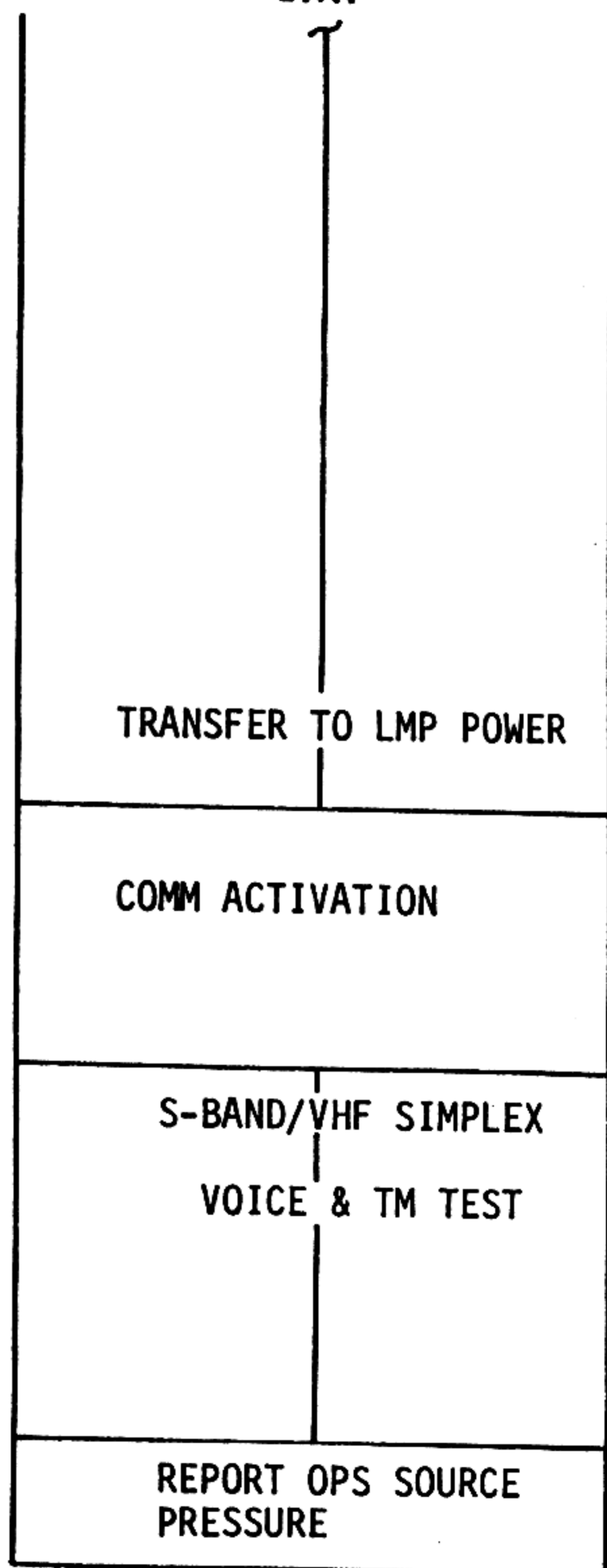
STOP PITCH RATE
ROLL TO REST ATT BY 90:58
R 126 HGA
P 291 P -29
Y 0 Y 275
GO INERTIAL



CDR

AID LMP AS REQUIRED

LMP



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	90:00 - 91:00	4/4	3-69

FLIGHT PLAN

CSM

LM

MCC-H

CMP

0522 CST

CDR

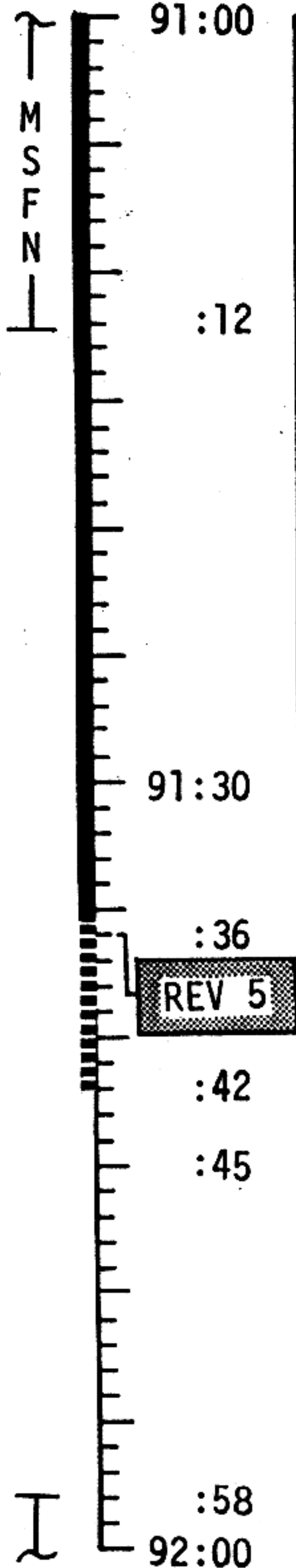
LMP

LOAD DAP R1(21110)R2(11111)
V21 N01
3255E
1616E

CSM POWER TO LM-ON
(AT LMP REQUEST)

VERIFY DSE MOTION
AT LOS
INSTALL DROGUE & PROBE

INSTALL CM HATCH



EAT PERIOD

AID LMP AS REQUIRED

COMM DEACTIVATION

TRANSFER TO CSM POWER

UPDATE TO CSM
TEI 11 PAD
MAP UPDATE REV 5

UPLINK TO CSM
STATE VECTOR & V66

IVT TO CSM

LMP IVT TO CSM
CLOSE LM HATCH

MAP UPDATE REV	5
LOS	: : :
180°	: : :
AOS	: : :

PRESLEEP CHECKLIST
 E-MEMORY DUMP
 CREW STATUS REPORT (medication)
 ONBOARD READOUTS to MSFN
 CYCLE H2, O2 FANS
 CHLORINATE WATER
 VERIFY
 WASTE MNGT OVBD DRAIN vlv - OFF
 WASTE STOW VENT vlv - CLOSED
 EMER CABIN PRESS vlv - BOTH
 SURGE TK O2 vlv - ON
 REPRESS O2 vlv - OFF
 LM TUNNEL VENT vlv - LM PRESS
 NORMAL LUNAR COMM EXCEPT
 S BD SQUELCH - ENABLE
 HI GAIN ANTENNA TRACK - REACQ
 HI GAIN ANTENNA BEAM - NARROW
 S BD ANT - HI GAIN

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	91:00-92:00	4/4-5	3-70

(OT) (

FLIGHT PI NG BRANCH

LUNAR ORBIT REST PERIOD ATTITUDE

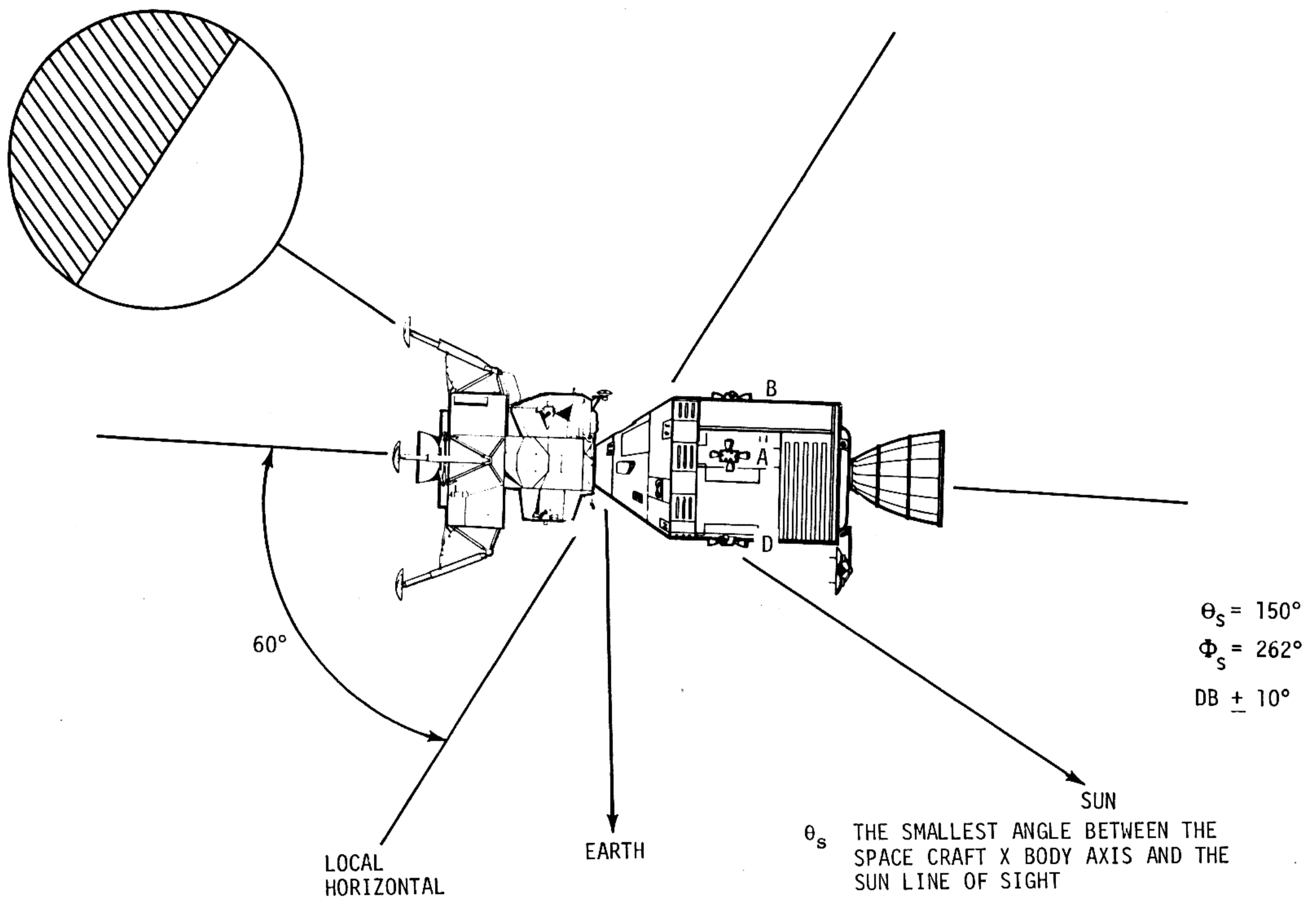


FIGURE 3-2
3-71

θ_s THE SMALLEST ANGLE BETWEEN THE SPACE CRAFT X BODY AXIS AND THE SUN LINE OF SIGHT

Φ_s THE ANGLE WHICH IS MEASURED FROM THE MINUS Z SPACECRAFT BODY AXIS POSITIVELY ABOUT THE X BODY AXIS TO THE SUN LINE OF SIGHT VECTOR PROJECTION IN THE Y - Z AXIS PLANE

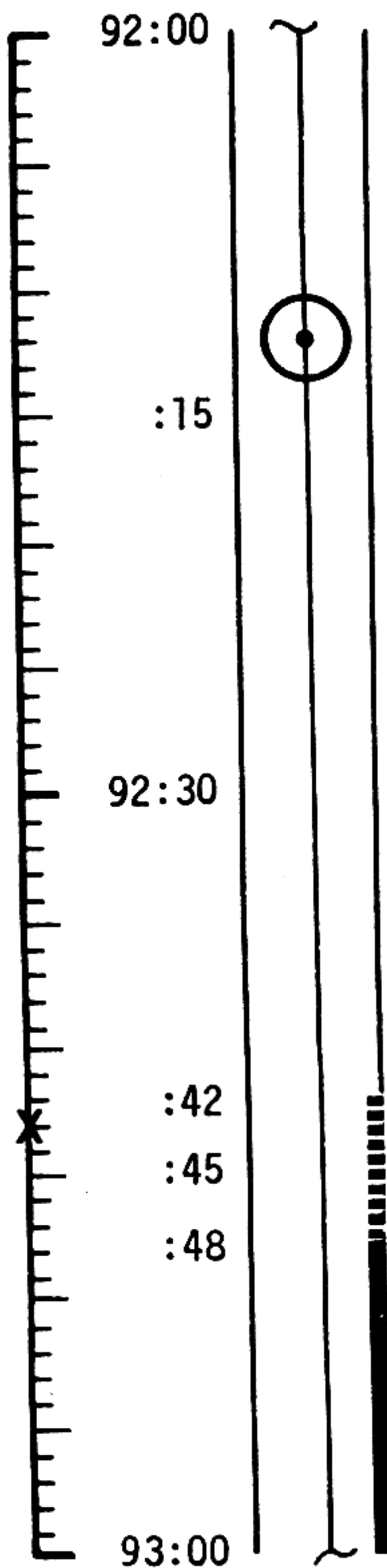
MCC-H

DUMP DSE

0622 CST

FLIGHT PLAN

NOTES



EAT PERIOD

REST PERIOD
(8.5 HOURS)

REST
ATT

ONBOARD READOUT	
BAT C	_____
PYRO BAT A	_____
PYRO BAT B	_____
RCS A	_____
B	_____
C	_____
D	_____
DC IND SEL - MNA OR B	

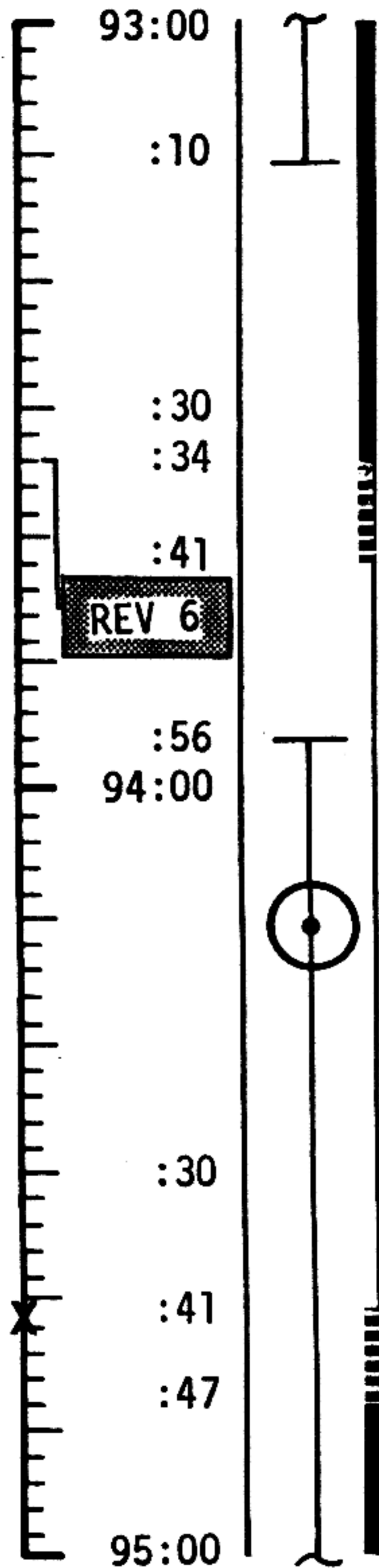
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	92:00 - 93:00	4/5	3-72

MCC-N

0722 CST

FLIGHT PLAN

NOTES



DUMP DSE

REST PERIOD
(8.5 HOURS)

REST
ATT

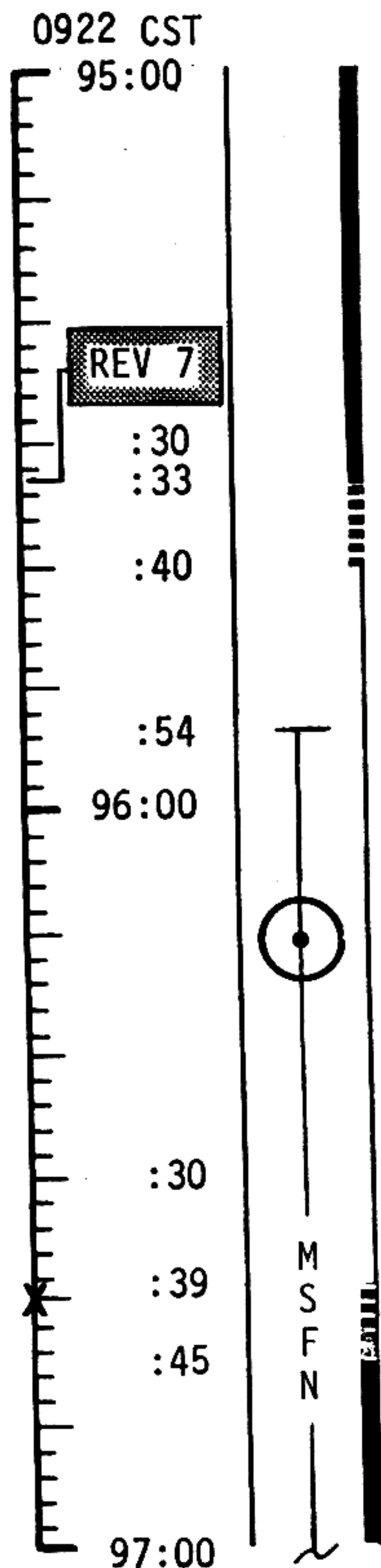
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	93:00-95:00	4/5-6	3-73

MCC-H

FLIGHT PLAN

NOTES

DUMP DSE



REST PERIOD
(8.5 HOURS)

REST
ATT

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	95:00 - 97:00	4/6-7	3-74

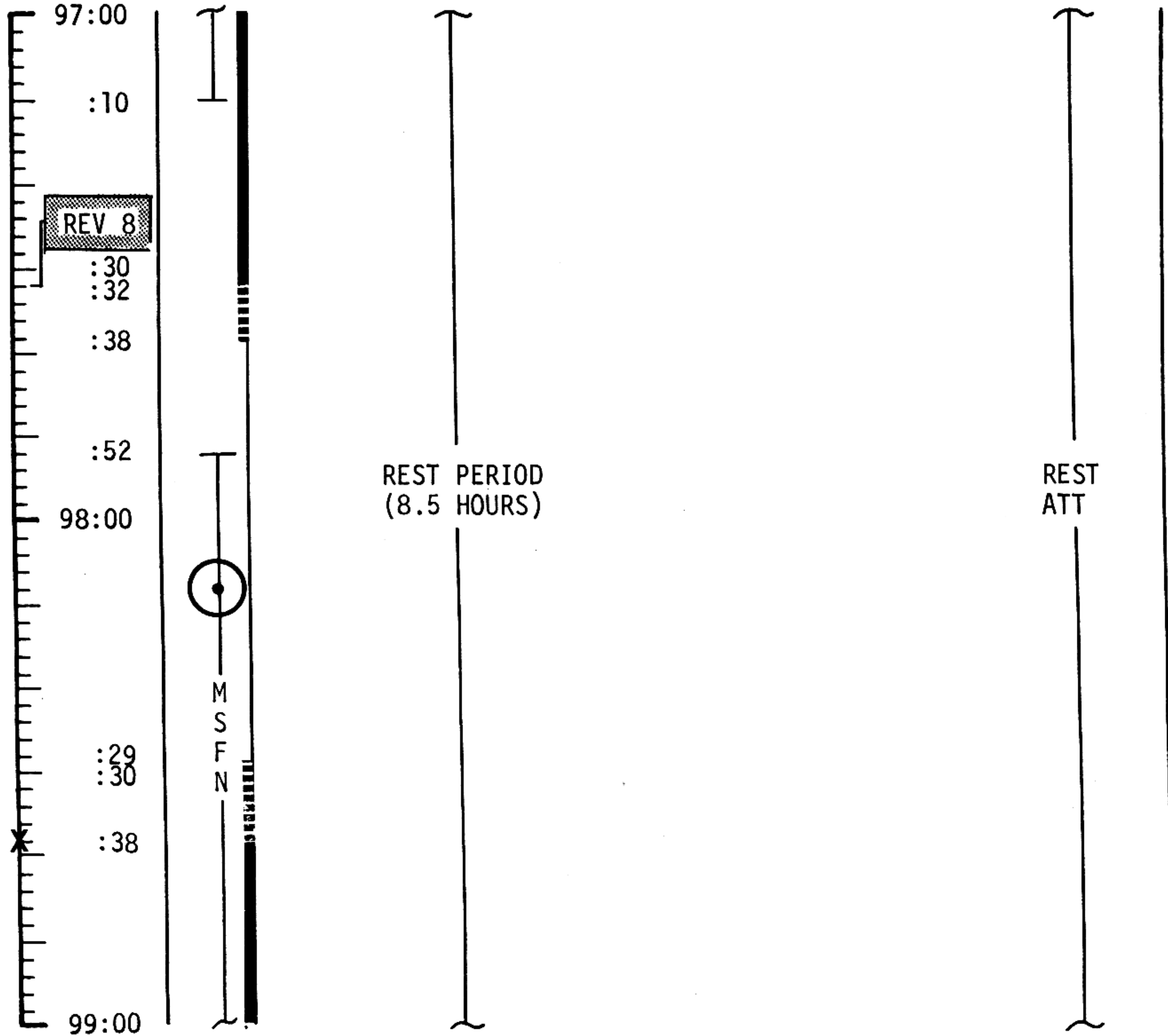
MCC-H

1122 CST

FLIGHT PLAN

NOTES

DUMP DSE



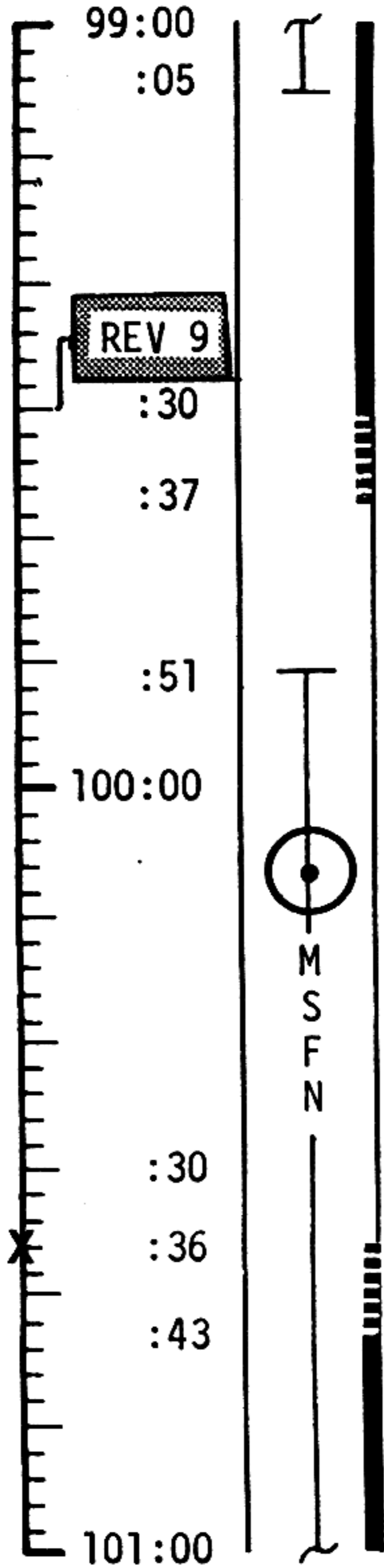
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	97:00 - 99:00	4/7-8	3-75

MCC-H

1322 CST

FLIGHT PLAN

NOTES



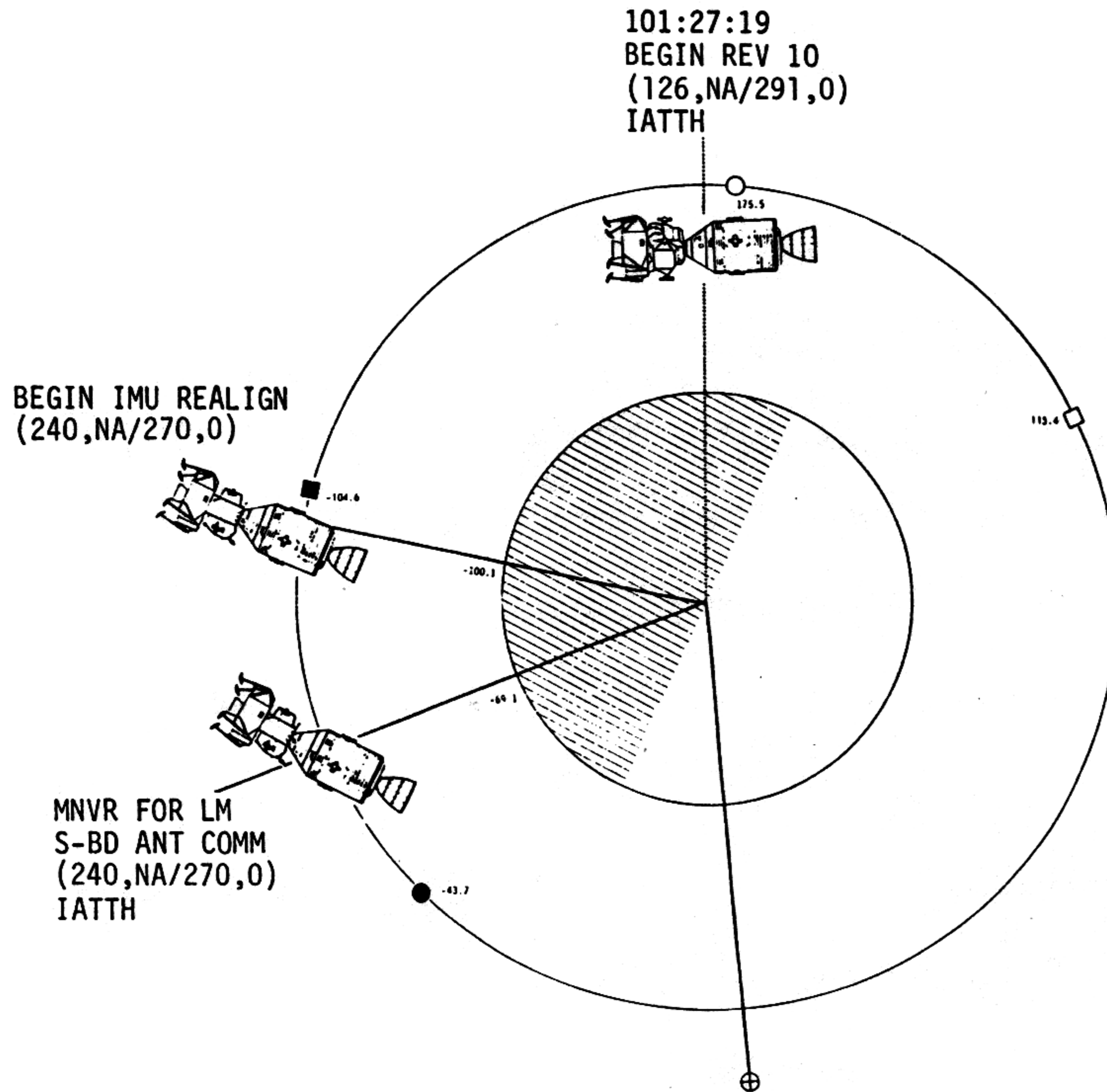
DUMP DSE

REST PERIOD
(8.5 HOURS)

REST
ATT

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	99:00 - 101:00	4/8-9	3-76

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LEGEND:

		MSFN AOS, LOS
		S/C SUNRISE, SUNSET
		SUBEARTH POINT
(R,LHP/INP,Y)		
IATTH - INERTIAL ATTITUDE HOLD		
LATTH - LOCAL ATTITUDE HOLD		

3-76A

REVISION B