

PH0503 584

UNITED STATES DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

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RECEIVED	SEP 6 1977
DATE ENTERED	NOV 22 1978

**NATIONAL REGISTER OF HISTORIC PLACES  
INVENTORY -- NOMINATION FORM**

SEE INSTRUCTIONS IN *HOW TO COMPLETE NATIONAL REGISTER FORMS*  
TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS

**1 NAME**

HISTORIC

Saturn V Space Vehicle  
AND/OR COMMON

Saturn V Space Vehicle

**2 LOCATION**

STREET & NUMBER

Tranquility Base

CITY, TOWN

Huntsville

\_\_\_ VICINITY OF

\_\_\_ NOT FOR PUBLICATION

CONGRESSIONAL DISTRICT

5

STATE

Alabama

CODE

01

COUNTY

Madison

CODE

089

**3 CLASSIFICATION**

CATEGORY	OWNERSHIP	STATUS	PRESENT USE
<input type="checkbox"/> DISTRICT	<input checked="" type="checkbox"/> PUBLIC	<input type="checkbox"/> OCCUPIED	<input type="checkbox"/> AGRICULTURE <input checked="" type="checkbox"/> MUSEUM
<input type="checkbox"/> BUILDING(S)	<input type="checkbox"/> PRIVATE	<input checked="" type="checkbox"/> UNOCCUPIED	<input type="checkbox"/> COMMERCIAL <input type="checkbox"/> PARK
<input checked="" type="checkbox"/> STRUCTURE	<input type="checkbox"/> BOTH	<input type="checkbox"/> WORK IN PROGRESS	<input type="checkbox"/> EDUCATIONAL <input type="checkbox"/> PRIVATE RESIDENCE
<input type="checkbox"/> SITE	<b>PUBLIC ACQUISITION</b>	<b>ACCESSIBLE</b>	<input type="checkbox"/> ENTERTAINMENT <input type="checkbox"/> RELIGIOUS
<input type="checkbox"/> OBJECT	<input type="checkbox"/> IN PROCESS	<input checked="" type="checkbox"/> YES: RESTRICTED	<input checked="" type="checkbox"/> GOVERNMENT <input type="checkbox"/> SCIENTIFIC
	<input type="checkbox"/> BEING CONSIDERED	<input type="checkbox"/> YES: UNRESTRICTED	<input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> TRANSPORTATION
		<input type="checkbox"/> NO	<input type="checkbox"/> MILITARY <input type="checkbox"/> OTHER:

**4 OWNER OF PROPERTY**

NAME

National Air and Space Museum, Smithsonian Institution (On extended loan to Alabama  
Space and Rocket Center)

CITY, TOWN

Washington

\_\_\_ VICINITY OF

STATE

D.C.

**5 LOCATION OF LEGAL DESCRIPTION**

COURTHOUSE,  
REGISTRY OF DEEDS, ETC.

Office of the Judge of Probate

STREET & NUMBER

Madison County Courthouse

CITY, TOWN

Huntsville

STATE

Alabama

**6 REPRESENTATION IN EXISTING SURVEYS**

TITLE

DATE

\_\_\_ FEDERAL \_\_\_ STATE \_\_\_ COUNTY \_\_\_ LOCAL

DEPOSITORY FOR  
SURVEY RECORDS

CITY, TOWN

STATE

# 7 DESCRIPTION

CONDITION		CHECK ONE	CHECK ONE
<input type="checkbox"/> EXCELLENT	<input type="checkbox"/> DETERIORATED	<input checked="" type="checkbox"/> UNALTERED	<input type="checkbox"/> ORIGINAL SITE
<input checked="" type="checkbox"/> GOOD	<input type="checkbox"/> RUINS	<input type="checkbox"/> ALTERED	<input checked="" type="checkbox"/> MOVED DATE _____
<input type="checkbox"/> FAIR	<input type="checkbox"/> UNEXPOSED		

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DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The Saturn V Space Vehicle is located in the Rocket Park of the Alabama Space and Rocket Center and consists of three tank-type propellant stages and payload. The vehicle is exhibited horizontally, one stage on allow boy type trailer, others on cradles.

Primarily materials: aluminum alloys, stainless steel and titanium.

Length: 365 feet.

Weight: 6,200,000 pounds.

First Stage: 33' diameter by 138'; five F-1 engines.  
Assembled by Marshall Space Flight Center and Boeing Aircraft Corporation.

Second Stage: 33' diameter by 81'; five J-2 engines.  
Assembled by North American Rockwell.

Third Stage: 22' diameter by 59'; 1 J-2 engine.  
Assembled by McDonnell-Douglas.

Pay Load: (1) Apollo Command Module - cone-shaped, 10'7" high, 12'10" diameter.  
Habitable volume - 210 cubic feet.  
Weight - 13,000 pounds.

(2) Service Module: Cylinder-shaped, 22'7" high, 12'10" diameter.  
Weight - 55,000 pounds.  
Assembled by North American Rockwell.

Cost: \$15,010,000.00

# 8 SIGNIFICANCE

PERIOD		AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW				
<input type="checkbox"/> PREHISTORIC	<input type="checkbox"/> ARCHEOLOGY-PREHISTORIC	<input type="checkbox"/> COMMUNITY PLANNING	<input type="checkbox"/> LANDSCAPE ARCHITECTURE	<input type="checkbox"/> RELIGION		
<input type="checkbox"/> 1400-1499	<input type="checkbox"/> ARCHEOLOGY-HISTORIC	<input type="checkbox"/> CONSERVATION	<input type="checkbox"/> LAW	<input type="checkbox"/> SCIENCE		
<input type="checkbox"/> 1500-1599	<input type="checkbox"/> AGRICULTURE	<input type="checkbox"/> ECONOMICS	<input type="checkbox"/> LITERATURE	<input type="checkbox"/> SCULPTURE		
<input type="checkbox"/> 1800-1899	<input type="checkbox"/> ARCHITECTURE	<input type="checkbox"/> EDUCATION	<input type="checkbox"/> MILITARY	<input type="checkbox"/> SOCIAL/HUMANITARIAN		
<input type="checkbox"/> 1700-1799	<input type="checkbox"/> ART	<input type="checkbox"/> ENGINEERING	<input type="checkbox"/> MUSIC	<input type="checkbox"/> THEATER		
<input type="checkbox"/> 1800-1899	<input type="checkbox"/> COMMERCE	<input type="checkbox"/> EXPLORATION/SETTLEMENT	<input type="checkbox"/> PHILOSOPHY	<input type="checkbox"/> TRANSPORTATION		
<input checked="" type="checkbox"/> 1900-	<input type="checkbox"/> COMMUNICATIONS	<input type="checkbox"/> INDUSTRY	<input type="checkbox"/> POLITICS/GOVERNMENT	<input checked="" type="checkbox"/> OTHER (SPECIFY)		
		<input type="checkbox"/> INVENTION		Space Exploration		

SPECIFIC DATES      1964

BUILDER/ARCHITECT

## STATEMENT OF SIGNIFICANCE

On July 16, 1969 a Saturn V Space Vehicle rose from the launch pad carrying astronauts Armstrong, Aldrin, and Collins toward mankind's first expedition to the surface of the moon. Since stages of the Saturn V are not recovered after use, a Saturn which has actually flown a mission will never be available to the public. The test stages located at the Alabama Space and Rocket Center are full operational units of the eventual flight stages and provide a realistic view of the vehicle which carried the first men to the moon and placed the first U.S. space station into orbit.

The design, development and manufacture of the Saturns was the responsibility of the NASA-Marshall Space Flight Center at Huntsville, Alabama, which at the time, was under the leadership of Dr. Werhner von Braun. Dr. von Braun headed a nation-wide team drawn from industry, government, and the educational community which provided the expertise to produce the Saturn.

The decision to develop the Saturn V was officially announced on January 10, 1962. It was the first large vehicle in the U.S. space program to be conceived and developed for a specific purpose - the lunar landing. NASA formally assigned the task of developing the Saturn V to the Marshall Space Flight Center on January 25, 1962. Launch responsibility was committed to the Kennedy Space Center in Florida.

Marshall Center designers decided that a three-stage vehicle would best serve the immediate needs for a lunar landing mission and would serve well as a general purpose space exploration vehicle. The Saturn V provided the U.S. with the capability to put into earth orbit some 280,000 pounds of payload or send 95,000 pounds to the moon. During a seven year period, a total of 13 Saturn V vehicles were launched, including two unmanned test flights; ten Apollo flights; and one flight which carried the Skylab space station to earth orbit. The Saturn V performed successfully in all missions.

In producing the Saturn V, the Marshall Center assembled test stages for use in dynamic testing and to check our facilities being prepared for the Saturn. Three of these main stages and the instrument unit, following the end of the development phase, were turned over to the Smithsonian Institute, which, in turn, made arrangements for the permanent displays near the Marshall Center and the Alabama Space and Rocket Center.

These stages are displayed end-to-end so as to resemble a complete vehicle. They have been in place since 1969 and until recently were the only full scale representation of a Saturn V available to the public. In 1976 a full scale Saturn was assembled at the Kennedy Space Center.

# 9 MAJOR BIBLIOGRAPHICAL REFERENCES

National Aeronautics and Space Administration records and documents.

# 10 GEOGRAPHICAL DATA

ACREAGE OF NOMINATED PROPERTY 44'x370' - less than One

UTM REFERENCES

A	1, 6	53, 15, 2, 0	3, 8, 4, 0	7, 4, 0
	ZONE	EASTING	NORTHING	
C				

B				
	ZONE	EASTING	NORTHING	
D				

VERBAL BOUNDARY DESCRIPTION

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE	CODE	COUNTY	CODE
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STATE	CODE	COUNTY	CODE
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# 11 FORM PREPARED BY

NAME / TITLE

Edward O. Buckbee, Director

(205) 337-3400

ORGANIZATION

Alabama Space and Rocket Center

DATE

August 23, 1977

STREET & NUMBER

Tranquility Base

TELEPHONE

CITY OR TOWN

Huntsville

STATE

Alabama 35807

# 12 STATE HISTORIC PRESERVATION OFFICER CERTIFICATION

THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS:

NATIONAL

STATE

LOCAL

As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service.

STATE HISTORIC PRESERVATION OFFICER SIGNATURE

Miss B. Howard, Jr.

TITLE

SHPO Alabama

DATE

August 29, 1977

FOR NPS USE ONLY

I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER

W. H. H. H. H.

DATE

6/22/78

DIRECTOR, OFFICE OF ARCHAEOLOGY AND HISTORIC PRESERVATION

KEEPER OF THE NATIONAL REGISTER

ATTEST:

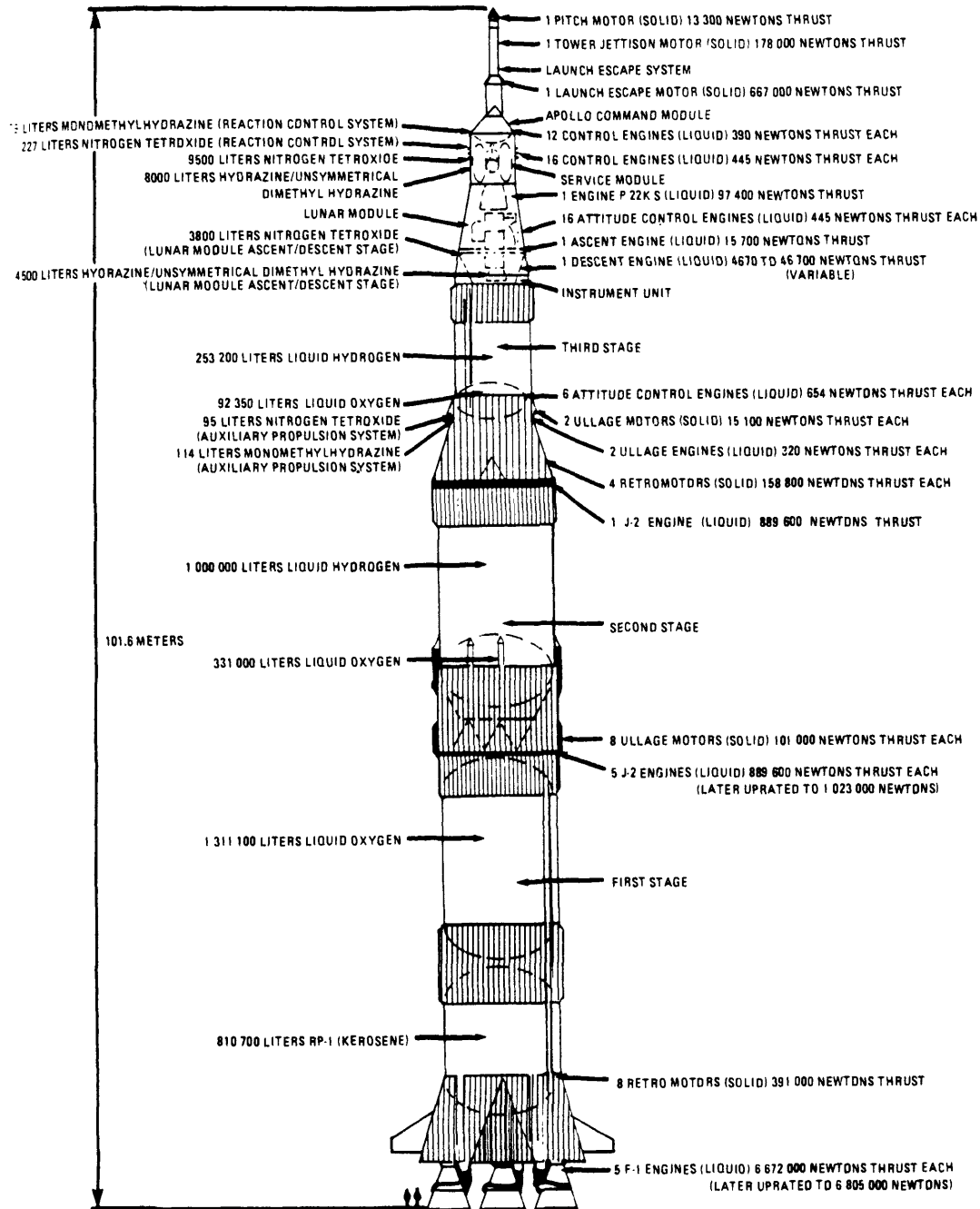
William Cole

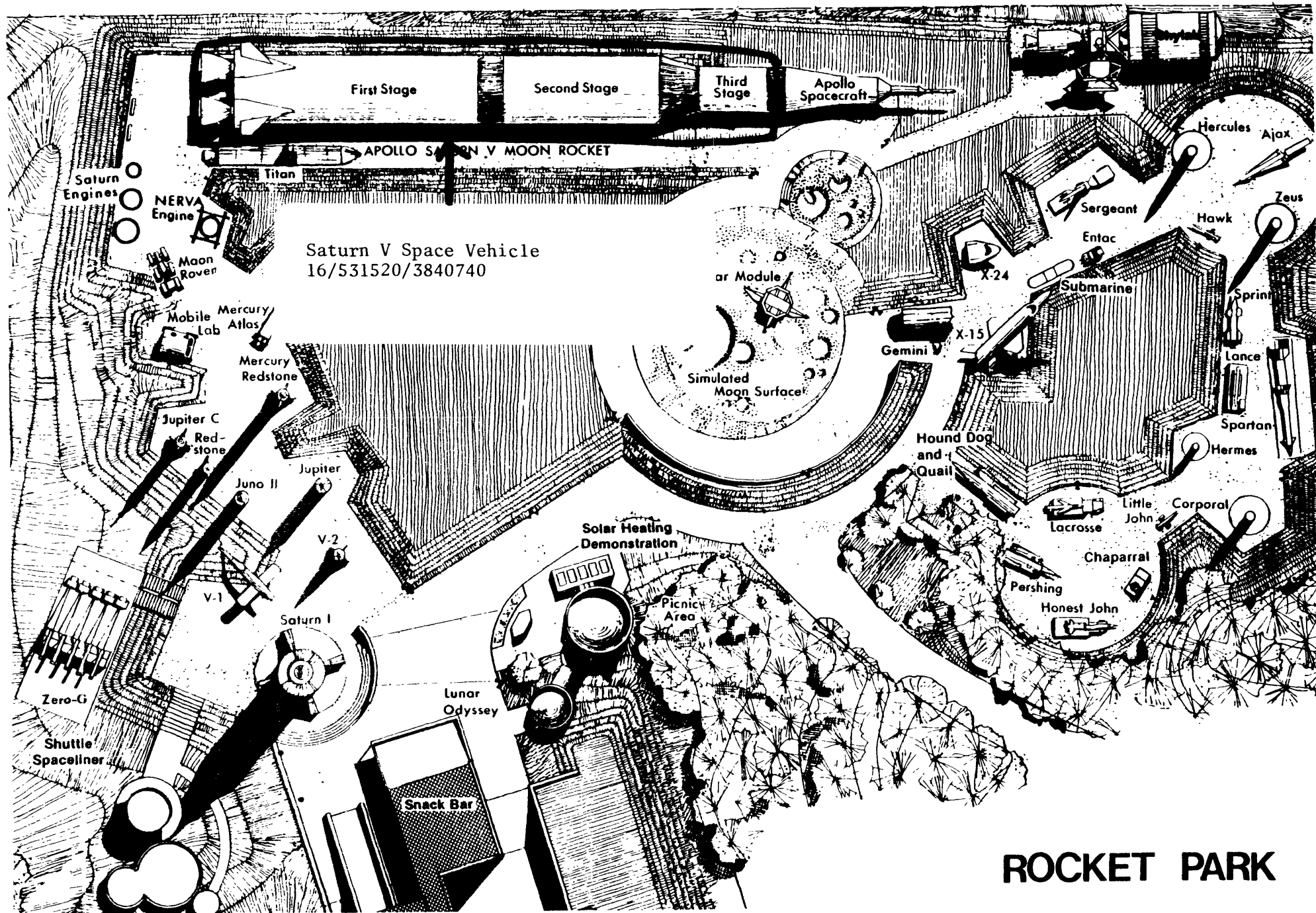
DATE

4-13-78

KEEPER OF THE NATIONAL REGISTER

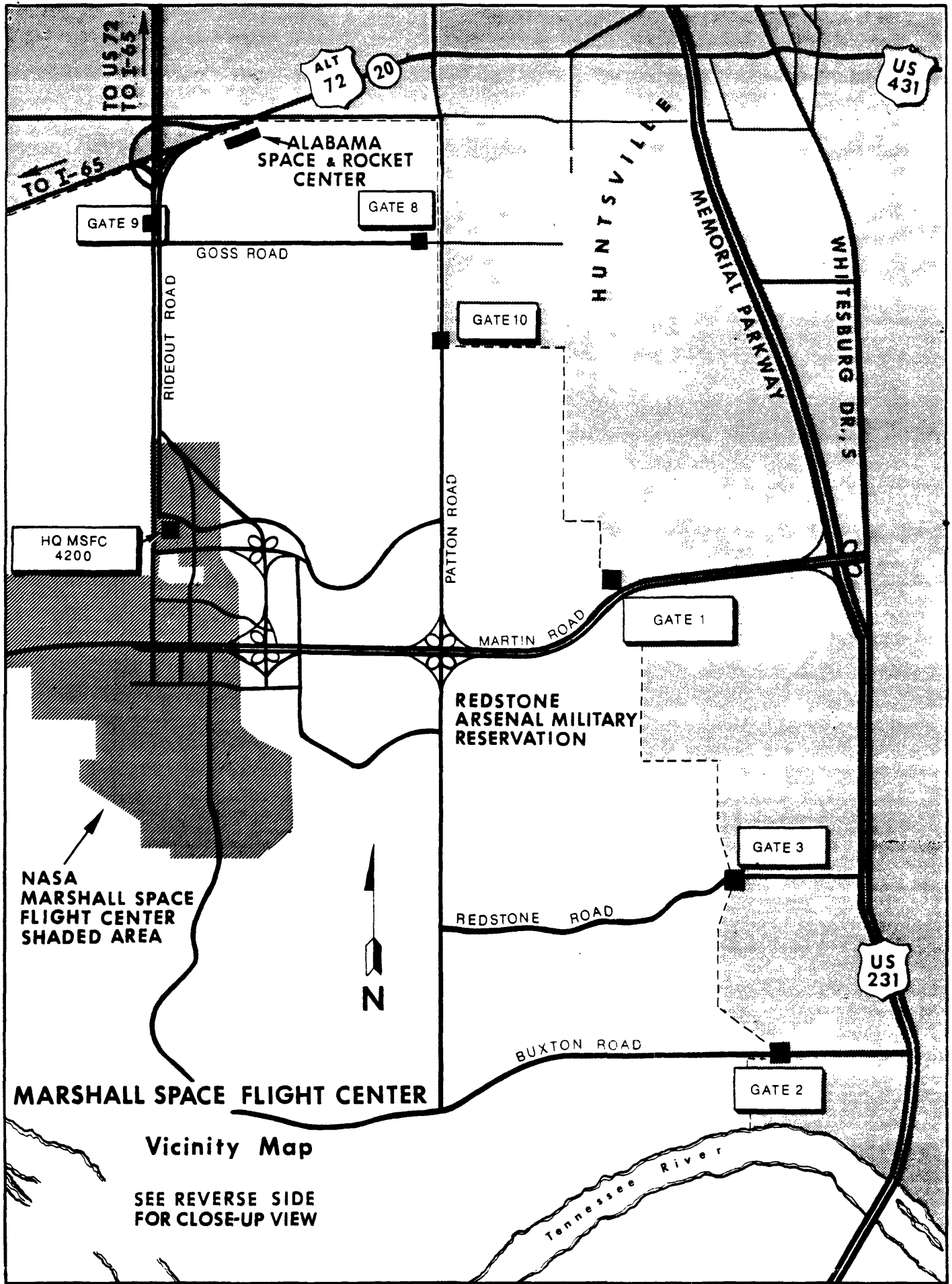
# Schematic of Saturn V





Saturn V Space Vehicle  
16/531520/3840740

# ROCKET PARK



ALABAMA SPACE & ROCKET CENTER

GATE 9

GATE 8

GOSS ROAD

RIDEOUT ROAD

PATTON ROAD

GATE 10

HQ MSFC  
4200

MARTIN ROAD

GATE 1

REDSTONE ARSENAL MILITARY RESERVATION

GATE 3

REDSTONE ROAD

NASA MARSHALL SPACE FLIGHT CENTER SHADED AREA



US 231

BUXTON ROAD

GATE 2

MARSHALL SPACE FLIGHT CENTER

Vicinity Map

SEE REVERSE SIDE FOR CLOSE-UP VIEW

Tennessee River

TO I-65

TO US 72 TO I-65

ALT 72 20

US 431

HUNTSVILLE

MEMORIAL PARKWAY

WHITESBURG DR. S