

ATLAS MISSILES AT PLATTSBURGH

1. What are the locations of Atlas Missile Silos in Clinton, Essex and Franklin Counties? How many silos in each location?

	Date Accepted
Site #1: Champlain, N.Y. (Clinton County).	30 Nov 62
Site #2: Alburg, Vermont.	25 Oct 62
Site #3: Swanton, Vermont.	20 Oct 62
Site #4: Willsboro, N.Y., (Essex County).	9 Dec 62
Site #5: Lewis, N.Y. (Essex County).	28 Nov 62
Site #6: AuSable Forks, N.Y., (Clinton County)	6 Dec 62
Site #7: Riverview, N.Y., (Clinton County).	29 Nov 62
Site #8: Redford, N.Y., (Clinton County).	5 Dec 62
Site #9: Dannemore, N.Y., (Clinton County).	1 Dec 62
Site #10: Brainardsville, N.Y. (Clinton County).	9 Dec 62
Site #11: Ellenburg, N.Y. (Clinton County).	4 Oct 62
Site #12: Moores, N.Y., (Clinton County).	6 Dec 62

NOTE: There was one silo per site, capable to launch only one missile.

2. Which silos actually were equipped with missiles? What were the range and payload of these missiles?

The 565th Strategic Missile Squadron of the 380th Strategic Aerospace Wing was equipped with thirteen Atlas F Missiles. This allowed each silo to possess one Atlas Missile with one additional missile to be used as a spare. When one missile in an existing silo was scheduled for maintenance the extra missile, maintained at PAFB, was sent to replace it. This allowed the 380th to maintain 12 ready to launch missiles seven days a week. This wing was the last unit to receive the Atlas Missile, and the only base east of the Mississippi River to possess Intercontinental Ballistic Missiles (ICBMs).

Range: Designed to reach 6,325 statute miles.

Payload: Designed to carry a nuclear warhead.

3. What were the dimensions of the silos and what other living areas did they include?

Silo Diameter: 52 Feet.
Silo Depth: 174 Feet.
Concrete: 3,200 cubic yards, per silo.
Steel: 600 Tons, per silo.
Missile Diameter: Not Available. 10'
Missile Length: 80 Foot.
Missile Take-off Thrust approximately 360,000 pounds.
Missile Take-off Weight: 130 tons.
Missiles top Speed: 15,000 mph.

Living quarters for the launch crew and maintenance personnel.

Two quonset huts at each site were used for maintenance and storage of a limited spare parts.

4. Do you know the names of a few of the local project leaders who I might get in touch with?

None known.

5. When did the construction begin and end? What local companies and how many local people were employed?

Soil test conducted January 1960.

Excavation stated in June 1960 by Raymond International the Prime Contractor.

SAC formally accepted the missile system on 22 Dec 1962

Local companies: None noted.

Number employed: Unknown

6. When was money appropriated for the construction? Unknown.
How much money was involved?

Site Number	Installation Number	Permanent Install Code	Silo/Easement Tract Acreage	Total Land Acquisition Cost
1	7467	THZC	245.72	\$ 7,847.69
2	7468	THZD	247.00	18,197.35
3	7469	THZE	250.82	11,460.00
4	7470	THZF	248.41	10,828.00
5	7471	THZG	238.15	4,953.00
6	7472	THZH	117.90	900.00
7	7473	THZJ	251.29	11,605.00
8	7474	THZK	246.72	5,826.00
9	7475	THZL	248.05	5,381.00
10	7476	THZM	242.64	4,702.00
11	7477	THZN	245.97	6,928.00
12	7478	THZP	242.64	3,981.00

7. When was the project dissolved and the sites sold? What reasons were given for this action? What missile replaced the Atlas and in what ways was it superior?

Site Number	Total Const Cost	Actual Acreage	Price Sold	Buyer	Date Quick Claim
1	\$ 4,995,377.03	8.95	\$ 9,100	Town of Champlain	15 Aug 67
2	4,973,631.89	8.95	7,300	Town of Alberg	15 Aug 67
3	5,016,404.09	8.95	6,471	Village of Swanton	16 Feb 70
4	5,185,818.23	8.95	5,800	Town of Willsboro	12 Jul 67
5	8,459,617.67	12.26	Unknown	State Univ of NY	27 Oct 67
6	8,566,947.39	23.35*	Unknown	State Univ of NY	27 Oct 67
7	7,497,884.28	12.95	5,500	Yates County Ind	2 Jul 68
8	5,366,781.31	13.74	7,690	Mr. Bernard A. Roy	18 Jul 67

9	5,058,271.79	8.95	5,900	Town of Dannemora	23 Sep 70
10	5,025,481.65	8.71	6,750	Town of Ellenburg	17 Nov 67
11	4,965,419.25	9.18	7,600	Town of Ellenburg	17 Nov 67
12	4,989,816.94	9.22	7,800	Town of Mooers	20 Jul 67

*Includes Easements and Right-of-Ways.

NOTE: There were no missiles assigned to the 380th Bombardment Wing that replaced the Atlas Fs. However, through the Air Force Inventory the then new Titan II was to replace the Atlas Fs and Titan Is. The reason the Atlas was replaced was like any other electronic system of that time frame - technology improved and so did the electronic capability. The Titan II possessed those advanced electronic which enhanced its targeting capabilities.

Memo For Record

29 Oct 86

TO: 380BMW/CC

This info was prepared for the 380BMW/PA office by the SSgt Thomas J. Powers, Wing Historian for release to Jack Downs, Press Republic Newspaper. PA, Lt Lamarca, has been advised that any information released on this topic MUST be approved by CSG/CC.

TJ Powers
TJ Powers, SSgt, USAF
Historian

1 Atch: Questions from
Jack Downs, Staff Writer

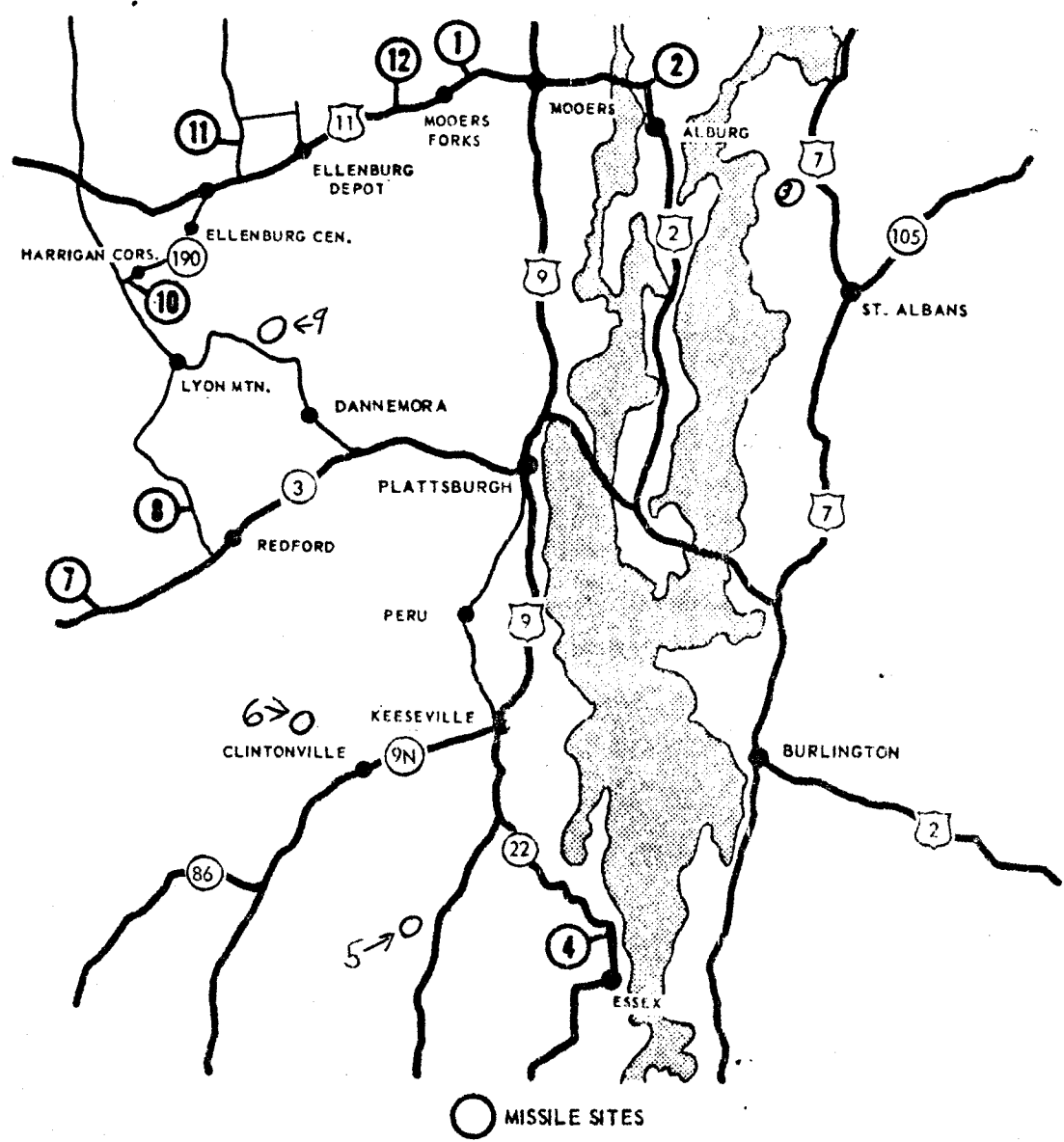
MISSILE SITES

The following is a list of missile sites as designated by SAC Special Orders No. G-52, 12 May 1961 and reflected on the real property records of this installation:

<u>SITE DESIGNATION</u>	<u>LOCATION</u>	<u>PREVIOUS SITE NO</u>	<u>PIN NO</u>
Plattsburgh Air Force Missile Site No. 1	Champlain, N.Y.	1	7467
Plattsburgh Air Force Missile Site No. 2	Alburg, Vermont	2	7468
Plattsburgh Air Force Missile Site No. 3	Swanton, Vermont	3	7469
Plattsburgh Air Force Missile Site No. 4	Willsboro, N.Y.	4	7470
Plattsburgh Air Force Missile Site No. 5	Lewis, N.Y.	10 (Bouquet)	7471
Plattsburgh Air Force Missile Site No. 6	AuSable Forks, N.Y.	5	7472
Plattsburgh Air Force Missile Site No. 7	Riverview, N.Y.	11 (Sugarbush)	7473
Plattsburgh Air Force Missile Site No. 8	Redford, N.Y.	6 (Clayburg)	7474
Plattsburgh Air Force Missile Site No. 9	Dannemora, N.Y.	7 (Chazy Lake)	7475
Plattsburgh Air Force Missile Site No. 10	Brainardsville, N.Y.	12 Harrigan Corners	7476
Plattsburgh Air Force Missile Site No. 11	Ellenburg Depot, N.Y.	8	7477
Plattsburgh Air Force Missile Site No. 12	Mooers, N.Y.	9	7478

MISSILE SITES

PLATTSBURGH AFB, NEW YORK



DISTANCES PLATTSBURGH AFB TO SITES:

NO. 1 - 30 MILES	NO. 8 - 34 MILES
2 - 38 MILES	10 - 39 MILES
4 - 30 MILES	11 - 27 MILES
7 - 36 MILES	12 - 33 MILES

DISTANCES SITES TO RAILHEADS (EST):

NO. 1 - 8 MILES	NO. 8 - 15 MILES
2 - 5 MILES	10 - 10 MILES
4 - 2 MILES	11 - 25 MILES
7 - 25 MILES	12 - 16 MILES

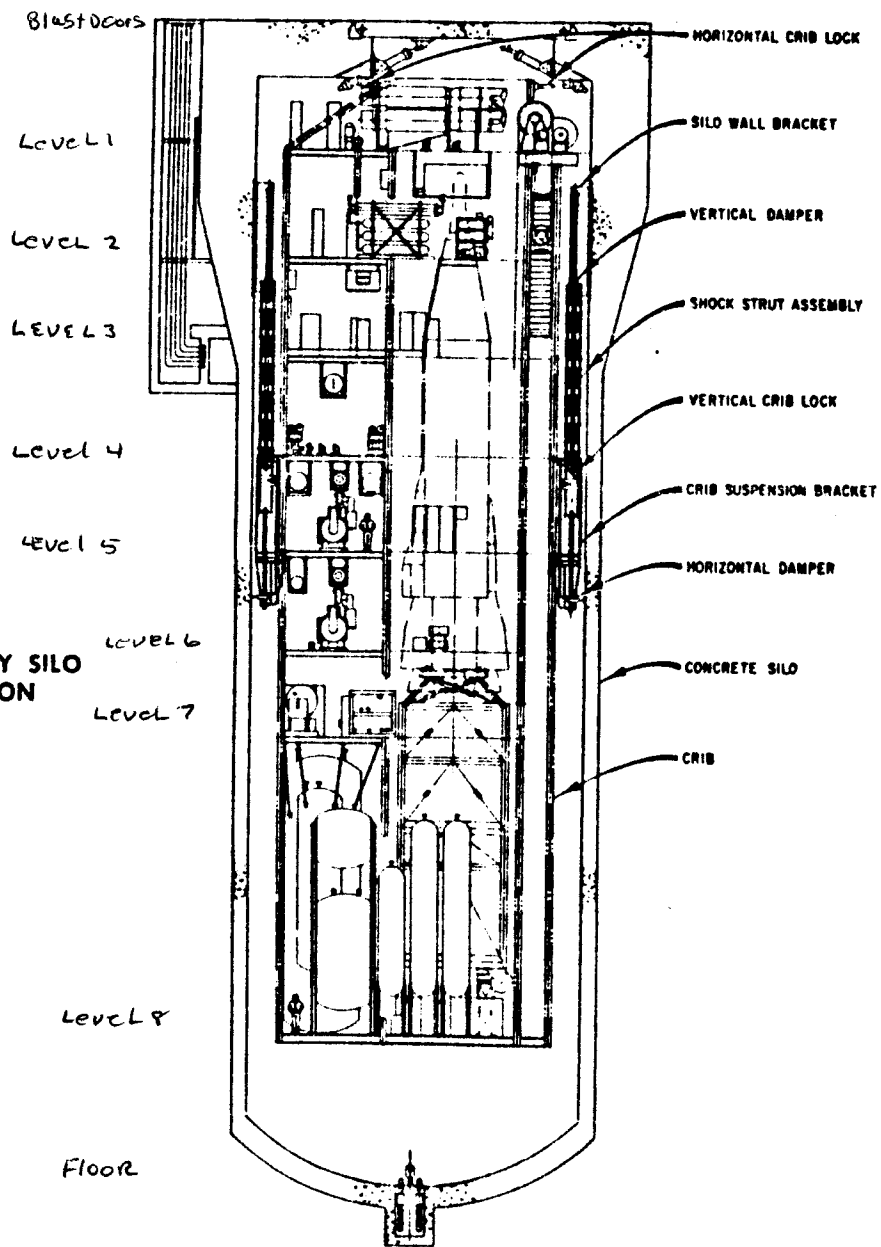


Fig. 2

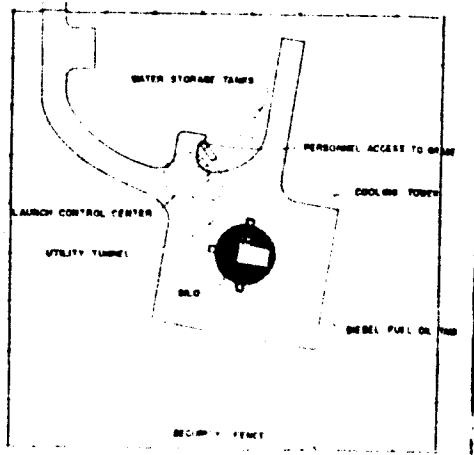
**ATLAS UNITARY SILO
CRIB SUSPENSION
SYSTEM**

LEVEL 6
LEVEL 7

LEVEL 8

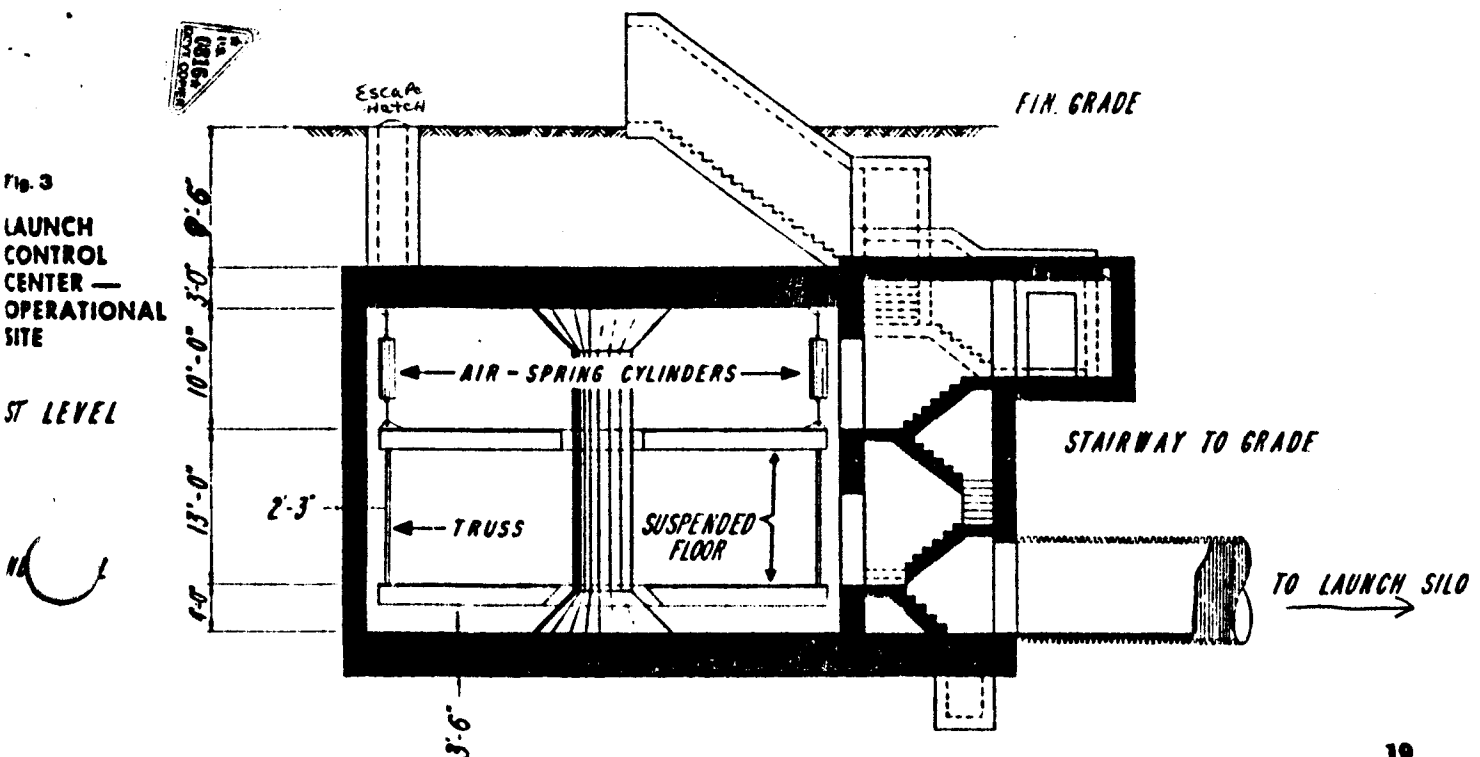
FLOOR

**OPERATIONAL
SITE
PLAN**



1. 9'6" From Ground Level Down To 1ST Landing.
2. Complex Is A Total Of 43' Deep From Ground Level To Bottom.

Crew of 5 Personnel
50 Ton Silo Doors



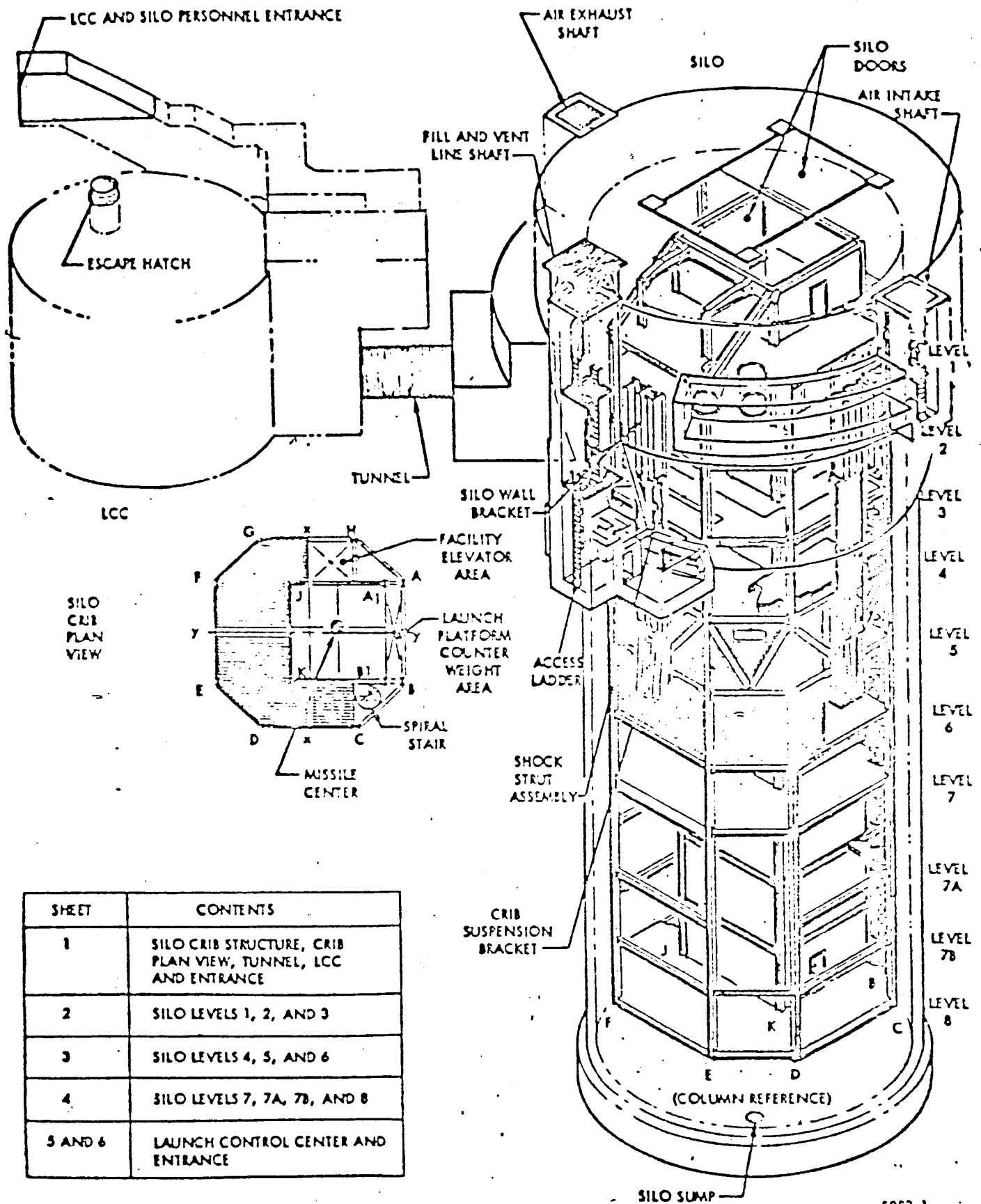
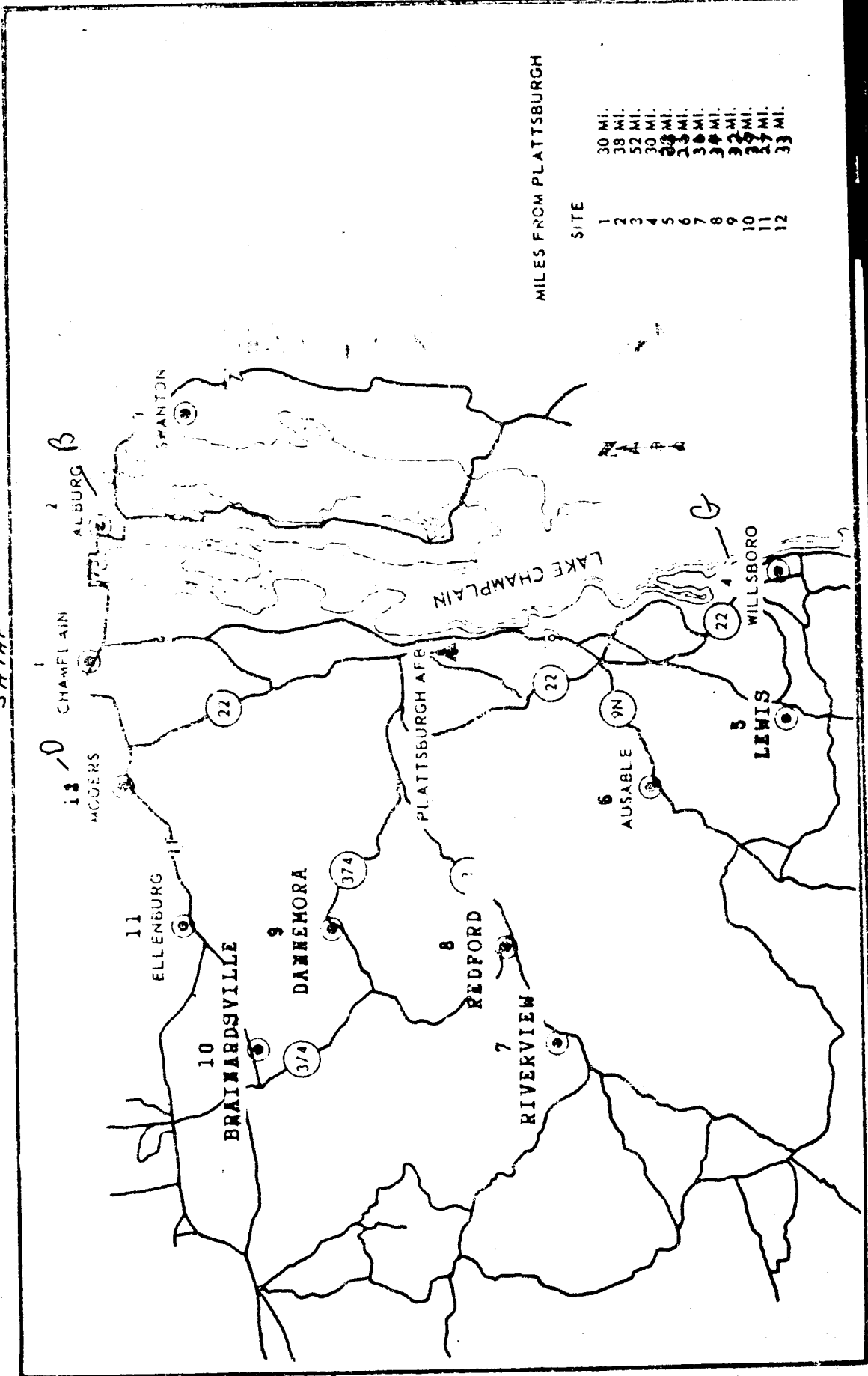


Figure 1 Typical Atlas Missile Silo and Launch Control Center

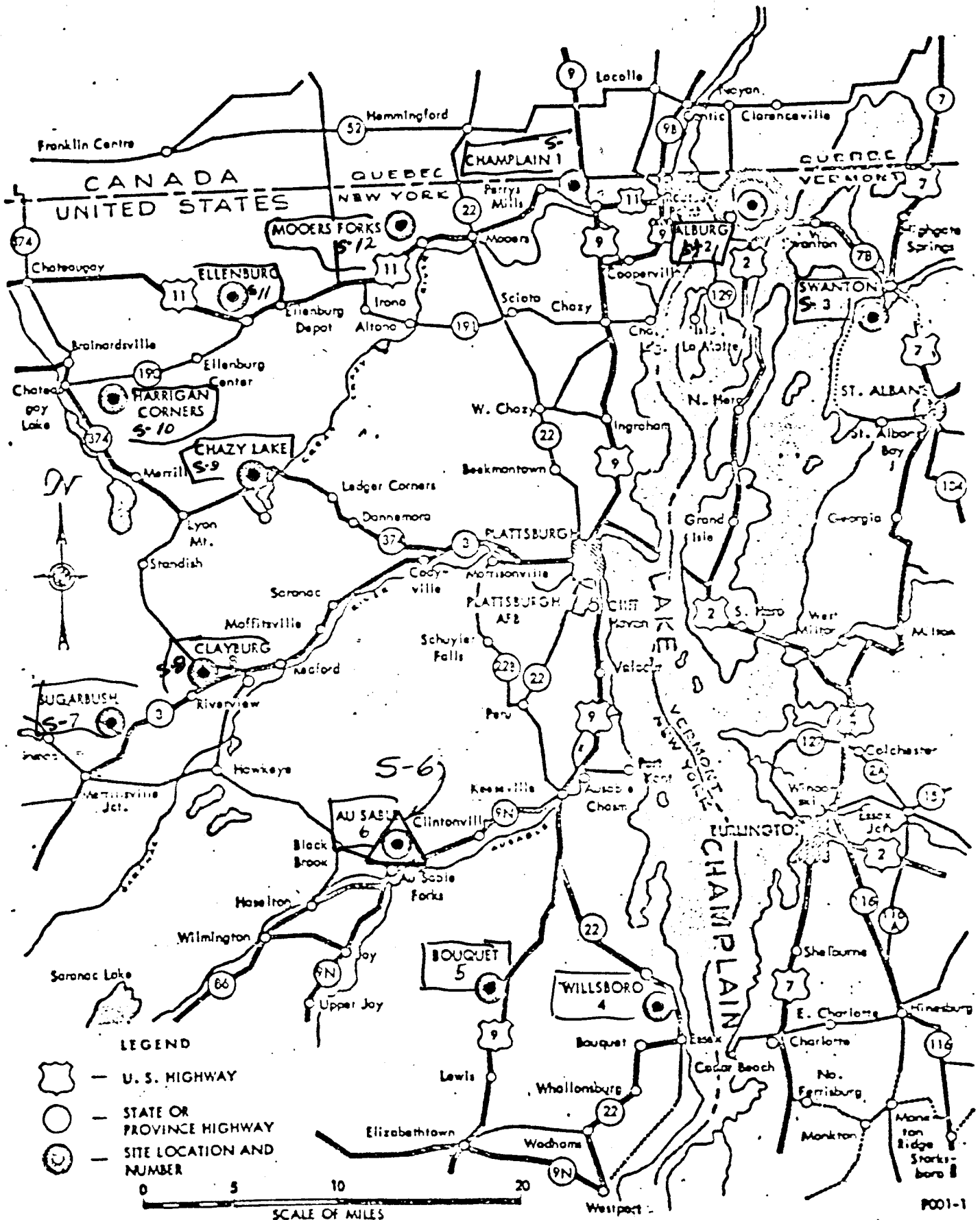
Sugarbush - E

AREA MAP
PLATTSBURGH AIR FORCE BASE
SATAF

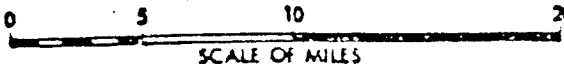


MILES FROM PLATTSBURGH

SITE	MILES
1	30 MI.
2	38 MI.
3	52 MI.
4	30 MI.
5	33 MI.
6	23 MI.
7	34 MI.
8	32 MI.
9	32 MI.
10	27 MI.
11	33 MI.
12	33 MI.

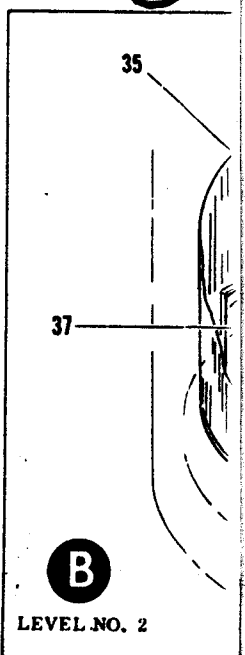
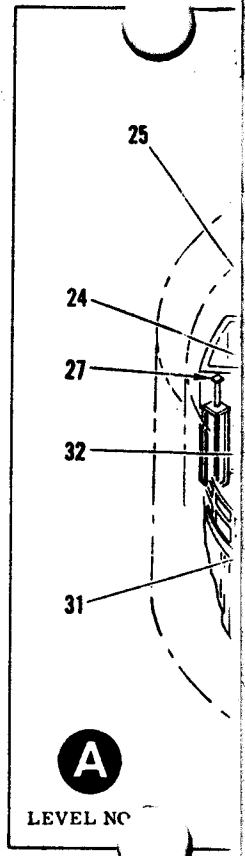
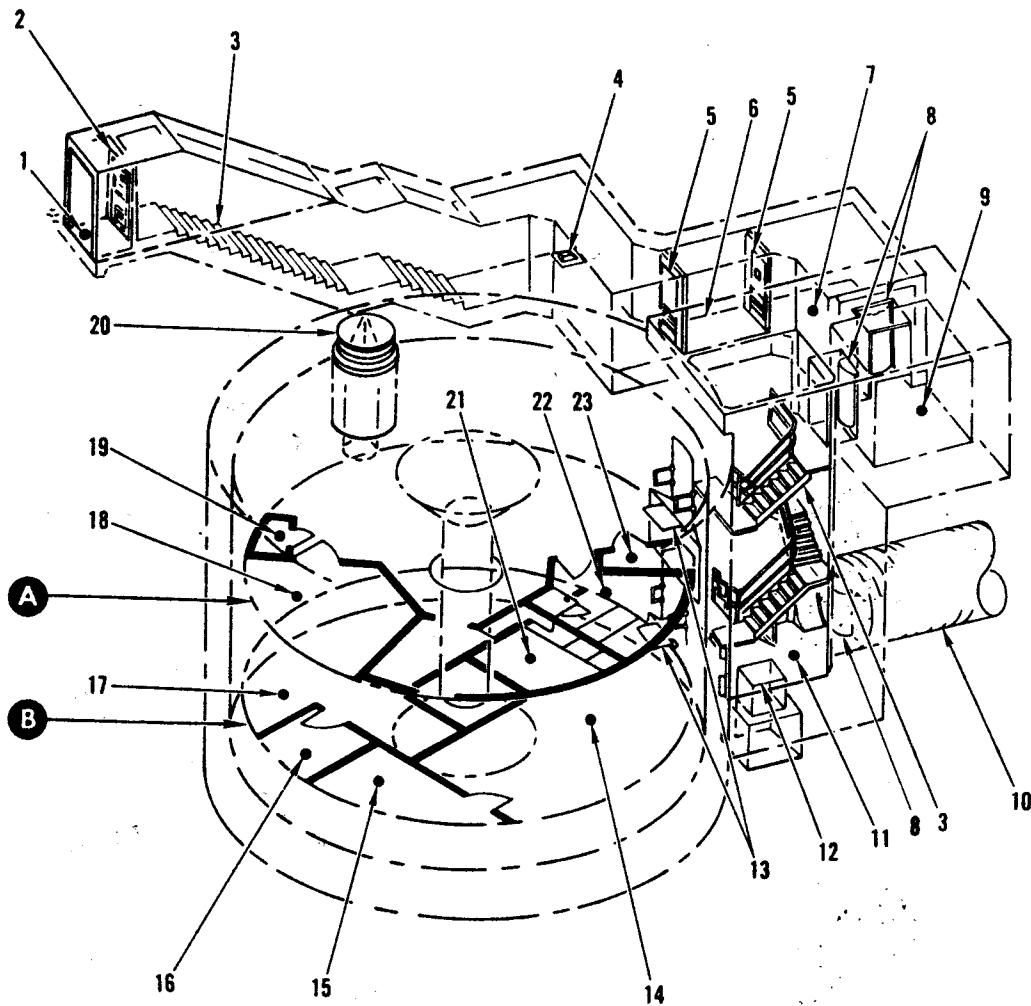


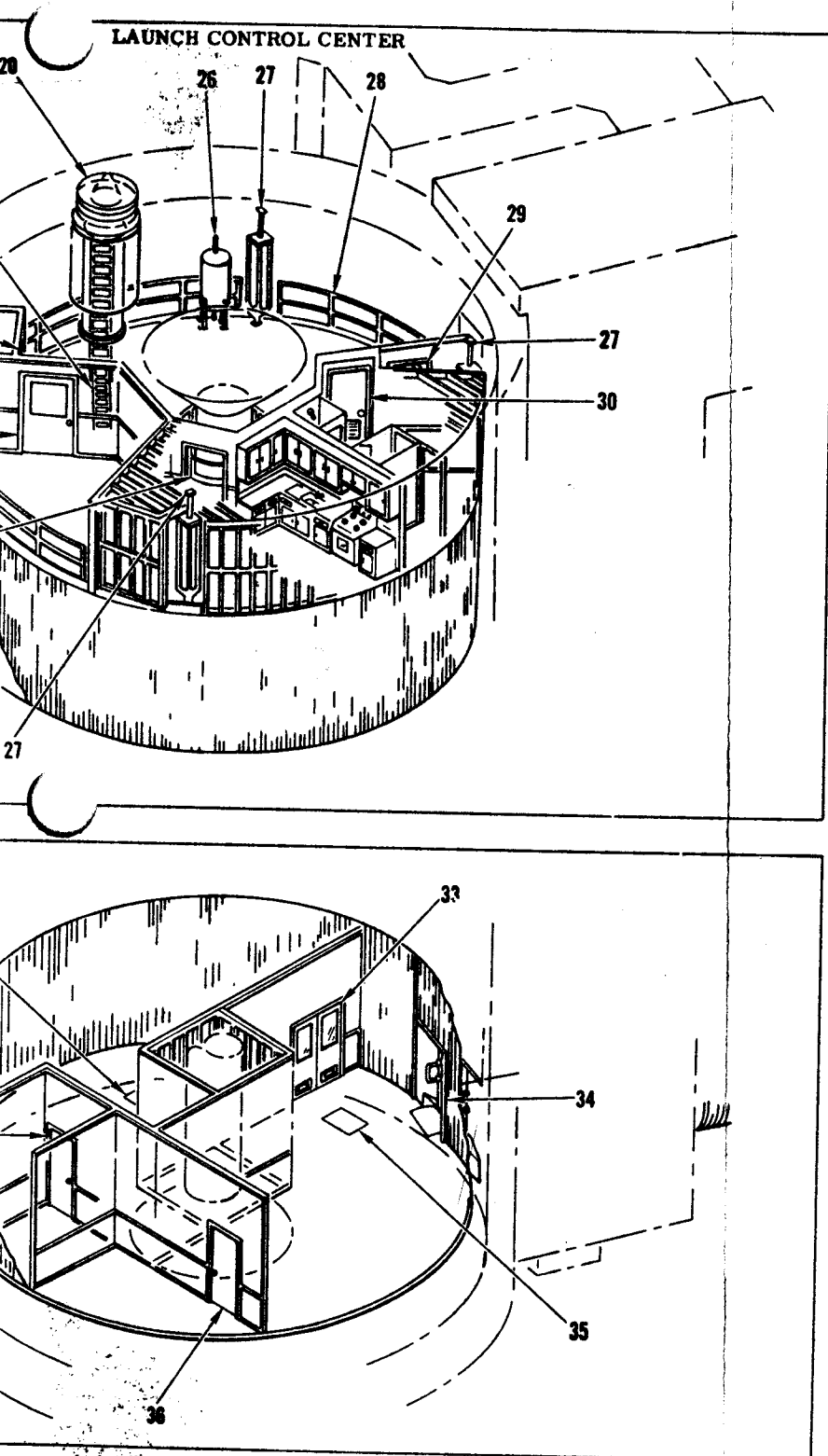
- LEGEND**
- U. S. HIGHWAY
 - STATE OR PROVINCE HIGHWAY
 - SITE LOCATION AND NUMBER



Plattsburgh Area Atlas Missile Site Locations

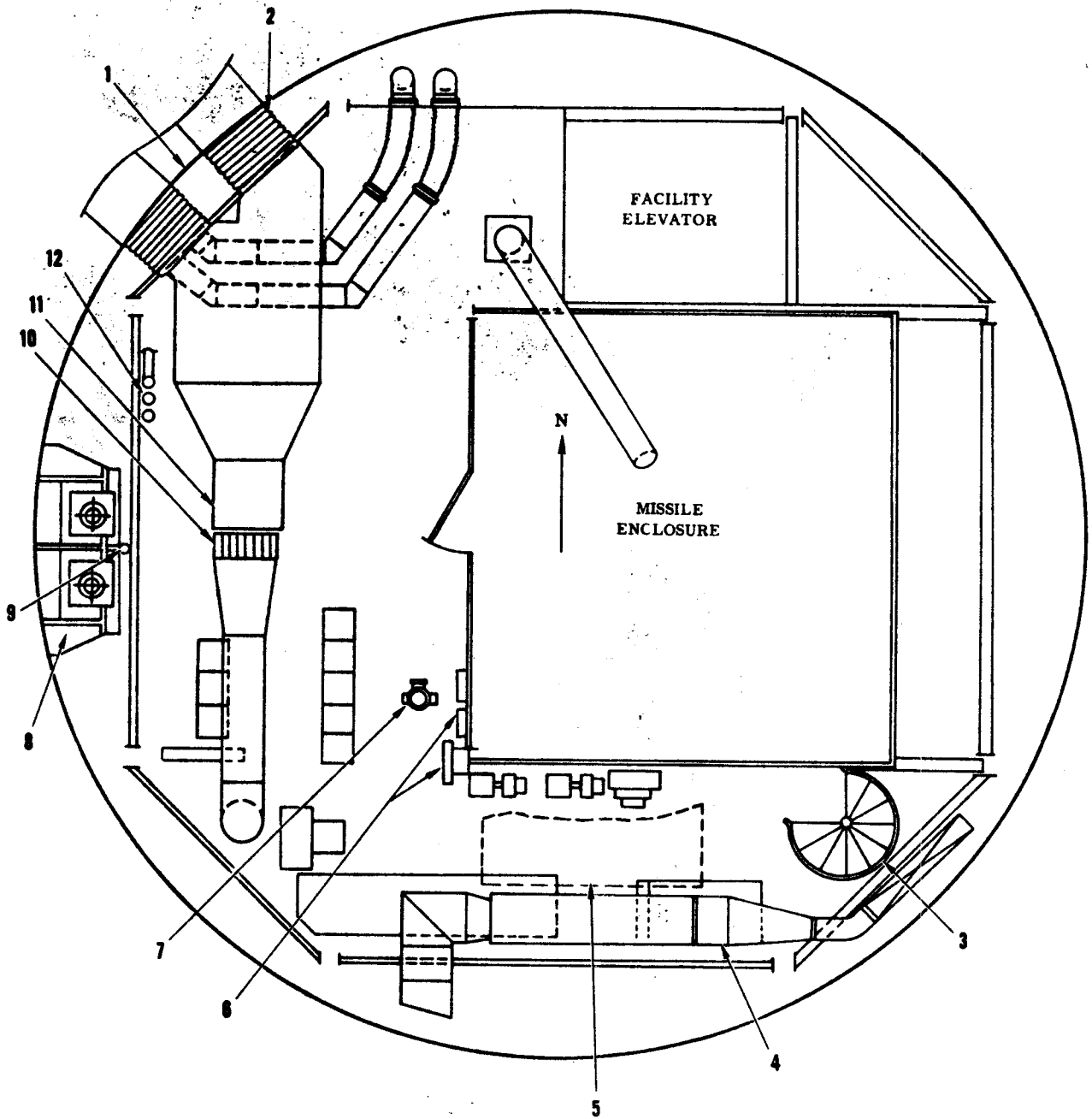
LAUNCH CONTROL CENTER AND ENTRANCE





- 1 LCC AND SILO PERSONNEL ENTRANCE
- 2 ENTRANCE DOOR
- 3 STAIRWAY
- 4 SUMP
- 5 ENTRAPMENT AREA DOOR
- 6 ENTRAPMENT AREA
- 7 ENTRY TUNNEL
- 8 BLAST DOOR
- 9 VESTIBULE
- 10 TUNNEL (LCC TO SILO)
- 11 STAIRWELL
- 12 SUMP PIT
- 13 COMPENSATING THRESHOLD
- 14 LAUNCH CONTROL ROOM
- 15 OFFICE
- 16 BATTERY ROOM
- 17 COMMUNICATION EQUIPMENT ROOM
- 18 AIR-CONDITIONING, HEATING, AND VENTILATING ROOM
- 19 MEDICAL SUPPLY ROOM
- 20 ESCAPE HATCH
- 21 KITCHEN AND MESS
- 22 TOILET
- 23 JANITOR ROOM
- 24 MEDICAL SUPPLY ROOM DOOR
- 25 ESCAPE HATCH LADDER
- 26 AIR RECEIVER TANK TK-100
- 27 SUSPENSION AIR CYLINDER
- 28 GUARD RAIL
- 29 JANITOR ROOM DOOR
- 30 TOILET DOOR
- 31 KITCHEN AND MESS ENTRANCE
- 32 AIR-CONDITIONING, HEATING, AND VENTILATING ROOM DOOR
- 33 COMMUNICATION EQUIPMENT ROOM DOOR
- 34 LAUNCH CONTROL ROOM FOLDING DOOR
- 35 FLOOR ACCESS HATCH
- 36 OFFICE DOOR
- 37 BATTERY ROOM DOOR

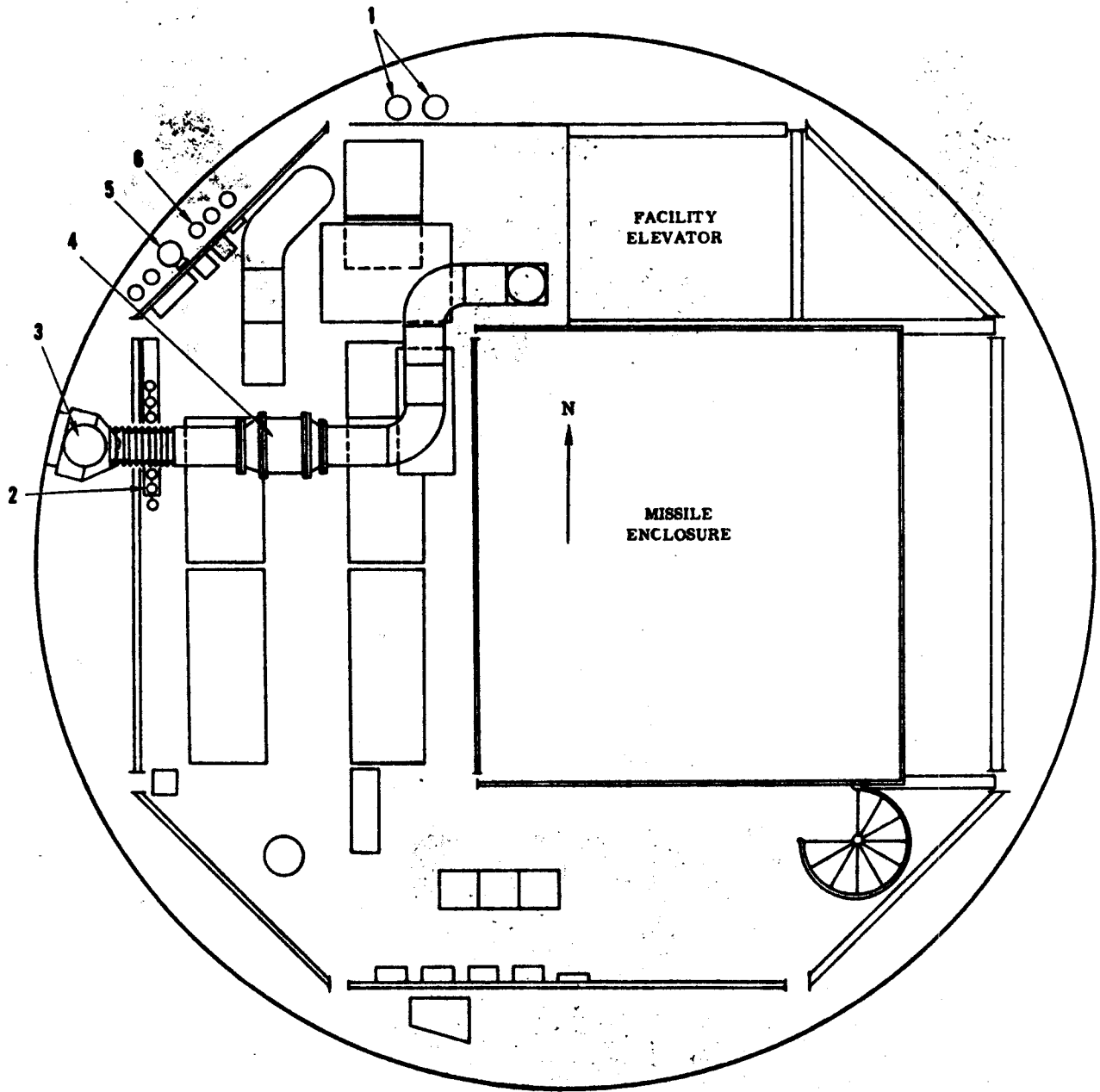
Figure 2-1. Launch Control Center



- | | |
|--|--|
| <p>1 PERSONNEL TUNNEL BLAST DOOR
 2 EXHAUST BLAST CLOSURE CONNECTION
 3 SPIRAL STAIRWAY
 4 FAN COIL UNIT NO. 44
 5 FAN COIL UNIT NO. 40 VALVES
 6 30-KVA TRANSFORMER AND LIGHTING PANELS</p> | <p>7 SAND SETTLING TANK, LOWER PORTION
 8 CRIB SUSPENSION SPRING MOUNTING BRACKET
 9 SHOCK STRUT ROD COUPLING
 10 MAIN EXHAUST PLENUM LOUVERS
 11 MAIN EXHAUST FAN NO. 30
 12 BLAST CLOSURE CONTROLS AND PIPES</p> |
|--|--|

40.45-120A

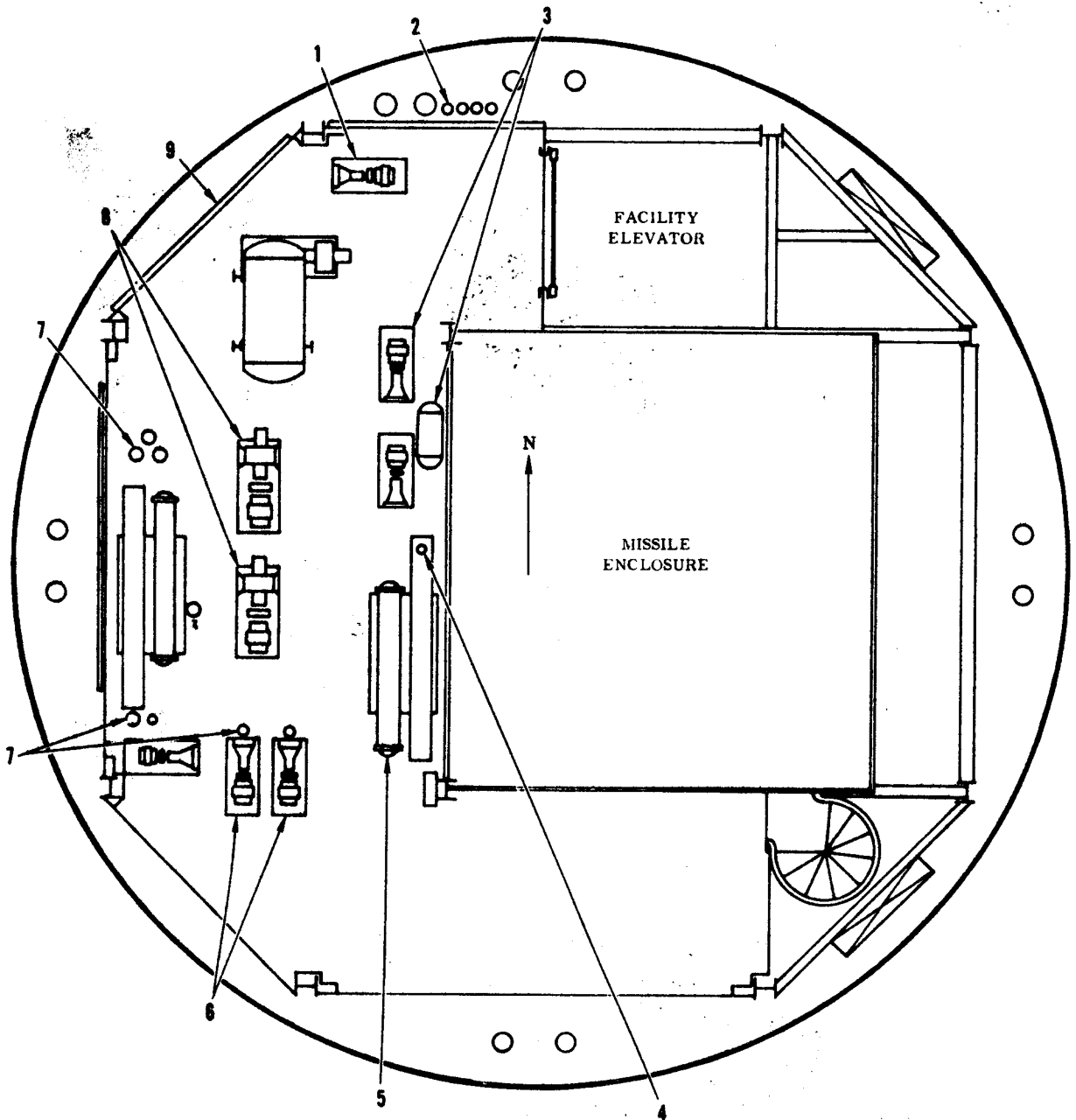
Figure 3-17. Silo Level NO. 2



- 1 DIESEL EXHAUST STACKS AND HOT WATER VALVES
- 2 UTILITY COMPRESSED AIR CONTROLS
- 3 GASEOUS OXYGEN VENT BLAST CLOSURE
- 4 GASEOUS OXYGEN VENT EXHAUST FAN
- 5 UTILITY WATER VALVE
- 6 HOT AND CHILLED WATER LINES

40,45-121A

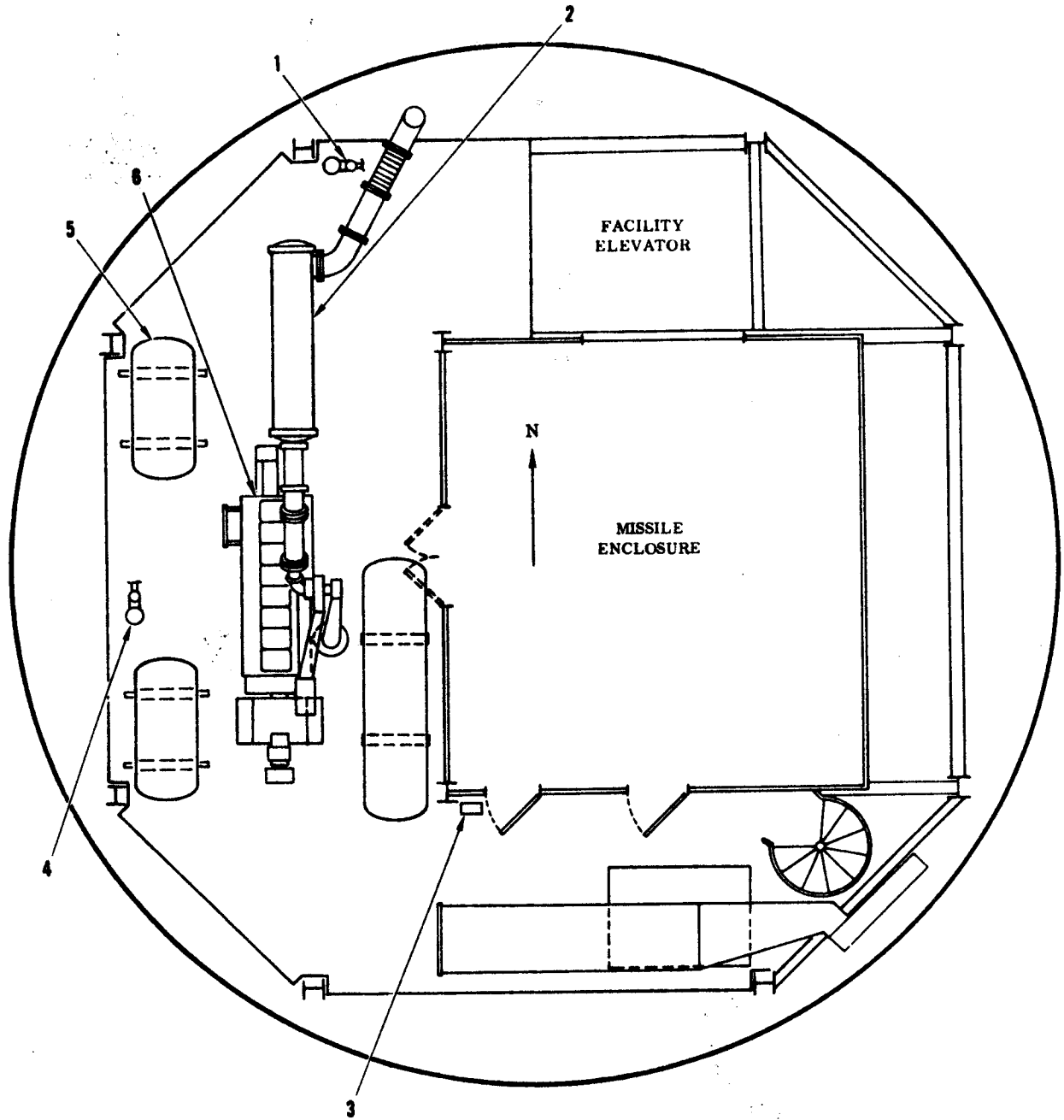
Figure 3-28. Silo Level NO. 3



- 1 UTILITY WATER PUMP
- 2 PROPELLANT LOADING SYSTEM PIPES
- 3 HOT WATER EXPANSION TANK AND PUMP
- 4 WATER CHILLER TANK PROBE
- 5 WATER CHILLER UNIT WCU-51
- 6 UTILITY RESERVE AND CHILLED WATER PUMPS
- 7 CONDENSER AND CHILLED WATER VALVES AND PIPES
- 8 CONDENSER WATER PUMP
- 9 SILO CRIB STRUCTURE

40-45-122

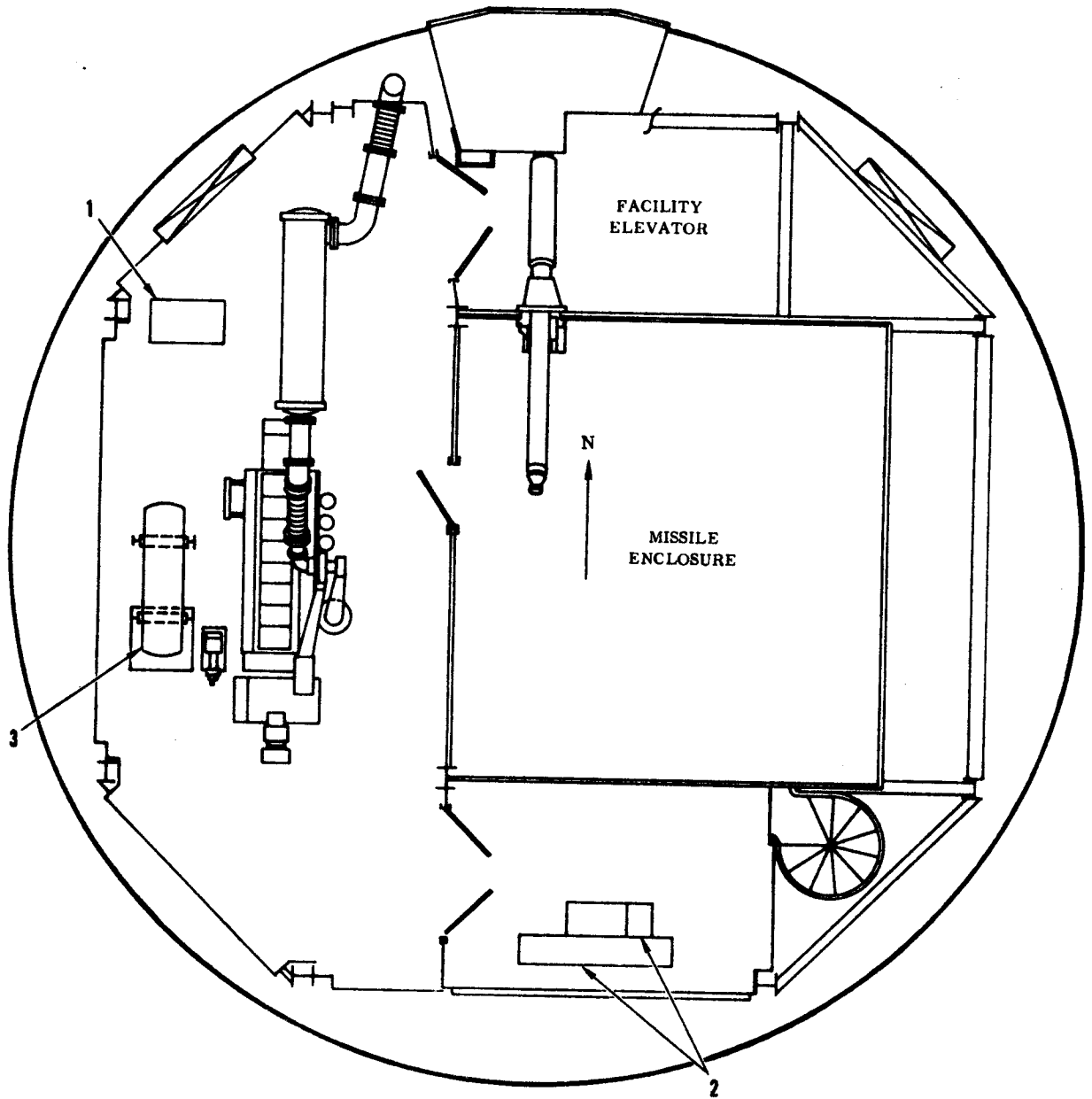
Figure 3-35. Silo Level NO. 4



- 1 AUTOMATIC FIRE PROTECTION WATER VALVE
- 2 HEAT EXCHANGER AND VALVES
- 3 EMERGENCY LIGHTING UNIT
- 4 DIESEL COOLING WATER CONTROL VALVES
- 5 DIESEL ENGINE CLEAN LUBRICATING OIL TANK
- 6 DIESEL GENERATOR

10. 45-123A

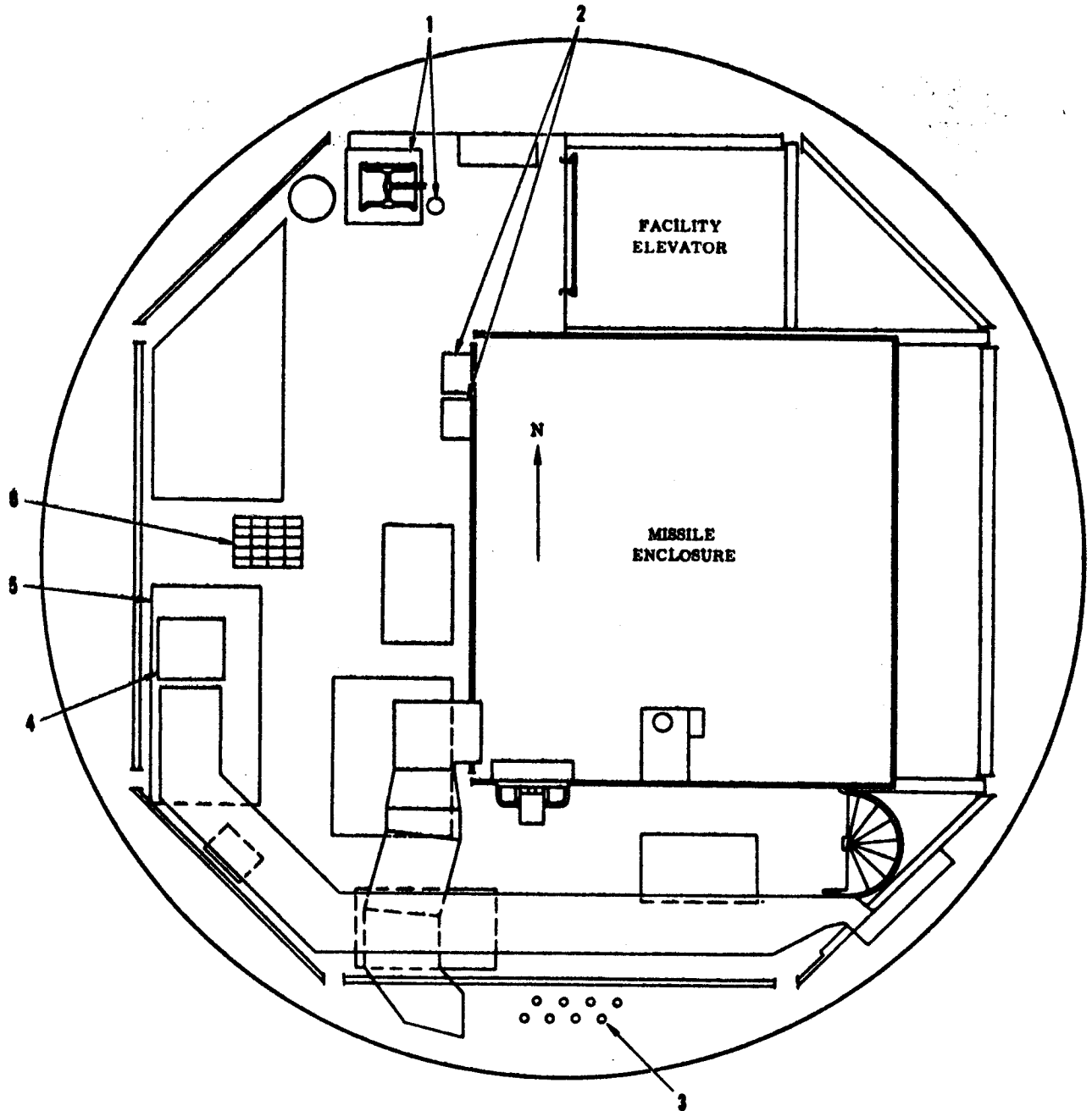
Figure 3-45. Silo Level NO. 5



- 1 ELECTRIC BOILER
- 2 48-VDC BATTERIES, RACK, AND CHARGER
- 3 DIESEL ENGINE AIR START TANK

3-124

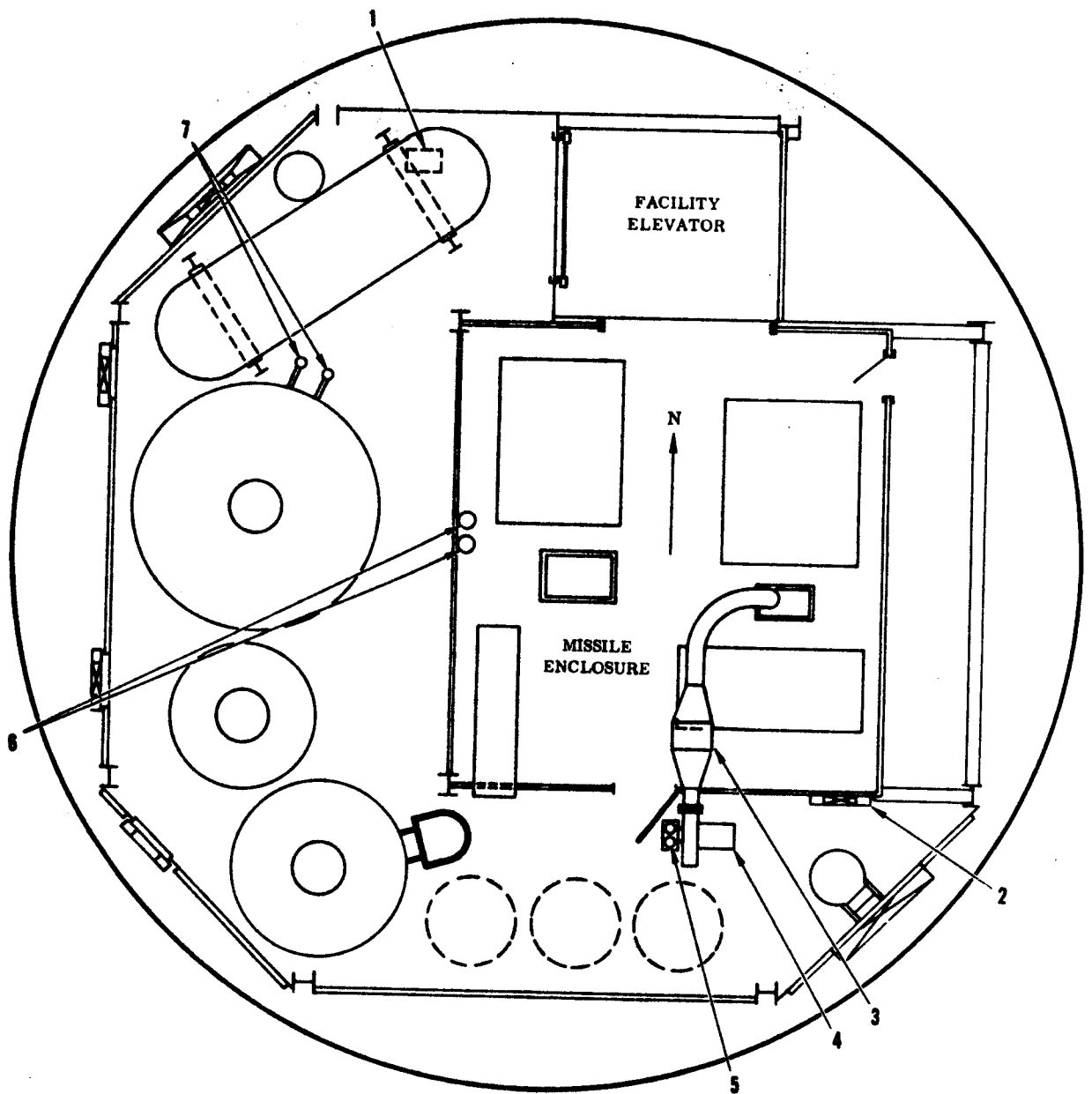
Figure 3-52. Silo Level NO. 6



- 1 EMERGENCY SHOWER AND EYE WASH
- 2 RP-1 AND DIESEL FUEL VAPOR DETECTORS
- 3 NITROGEN AND HELIUM FILL LINE EXPANSION JOINTS
- 4 AIR-CONDITIONING UNIT
- 5 INSTRUMENT AIR PREFAB
- 6 LIQUID OXYGEN STORAGE TANK MANHOLE COVER
(UNDER FLOOR GRILLE)

40.45-125A

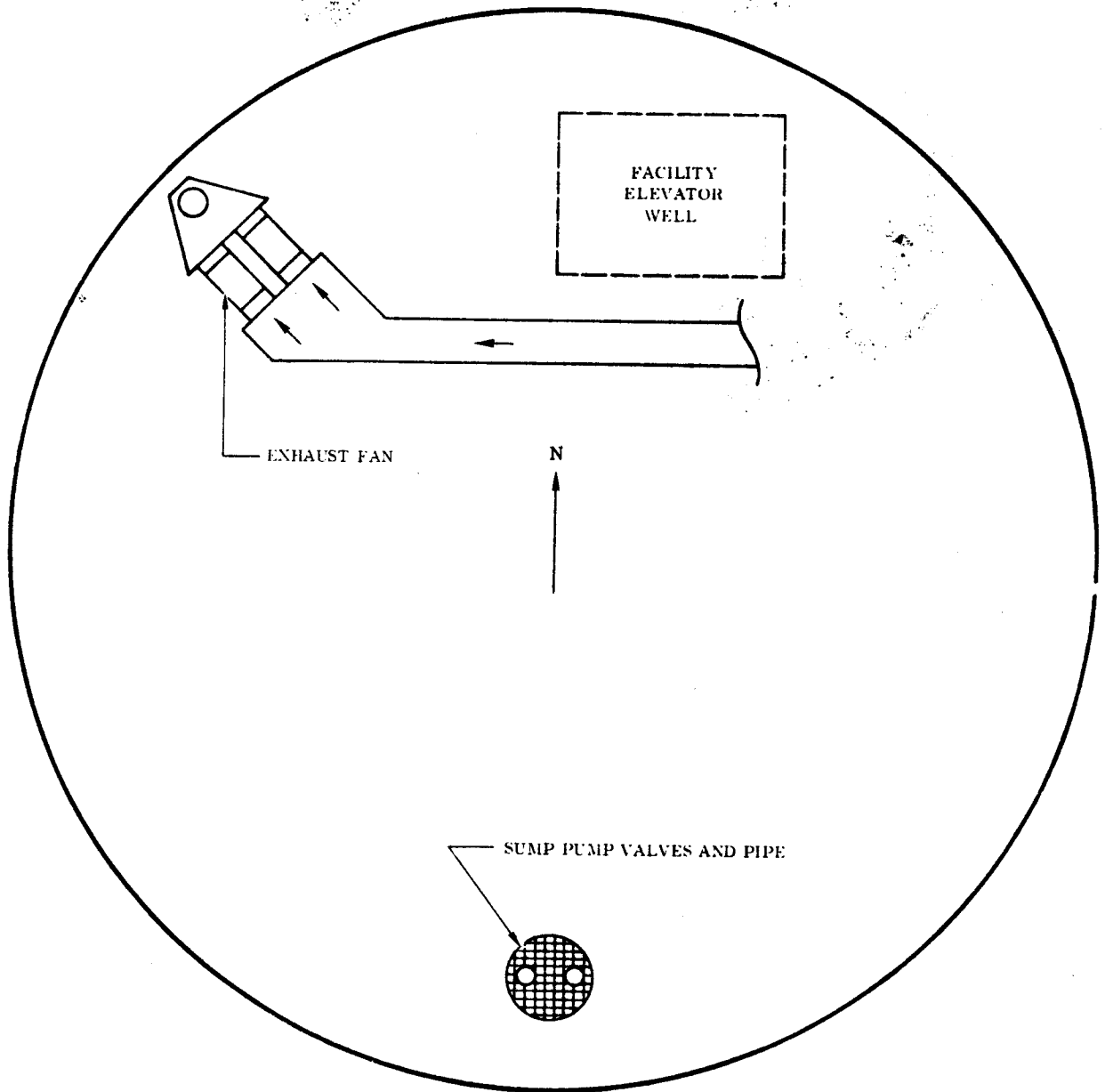
Figure 3-56. Silo Level NO. 7



- 1 LIQUID NITROGEN STORAGE TANK VACUUM PUMP
- 2 SUPPLY FAN
- 3 THRUST SECTION HEATING SYSTEM COILS
- 4 THRUST SECTION HEATING SYSTEM PRESSURE FAN
- 5 THRUST SECTION HEATING SYSTEM VALVES AND PIPE
- 6 RP-1 AND GASEOUS OXYGEN SENSING UNITS
- 7 LIQUID OXYGEN STORAGE TANK DRAIN VALVES

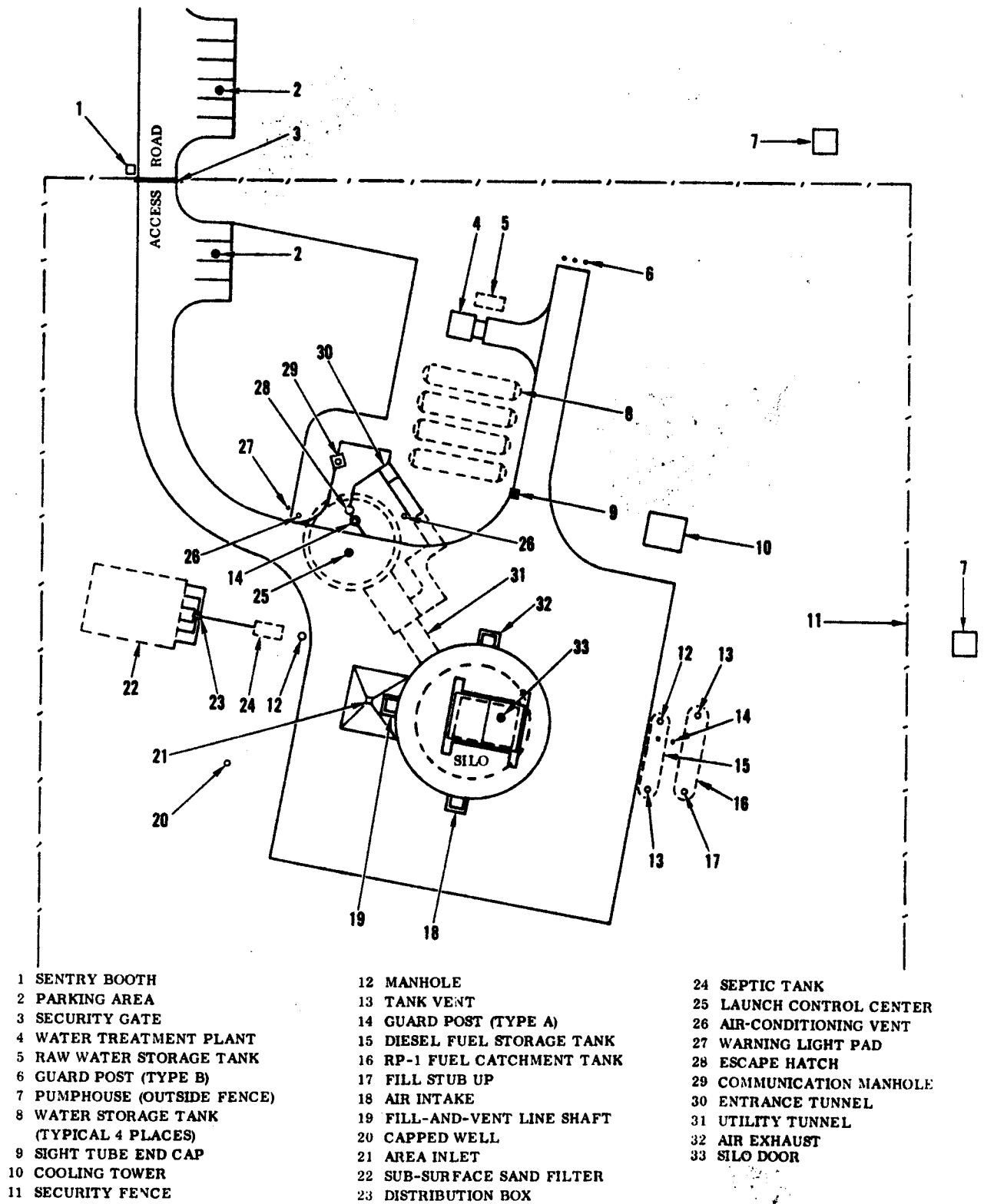
-10.45-126A

Figure 3-64. Silo Level NO. 8



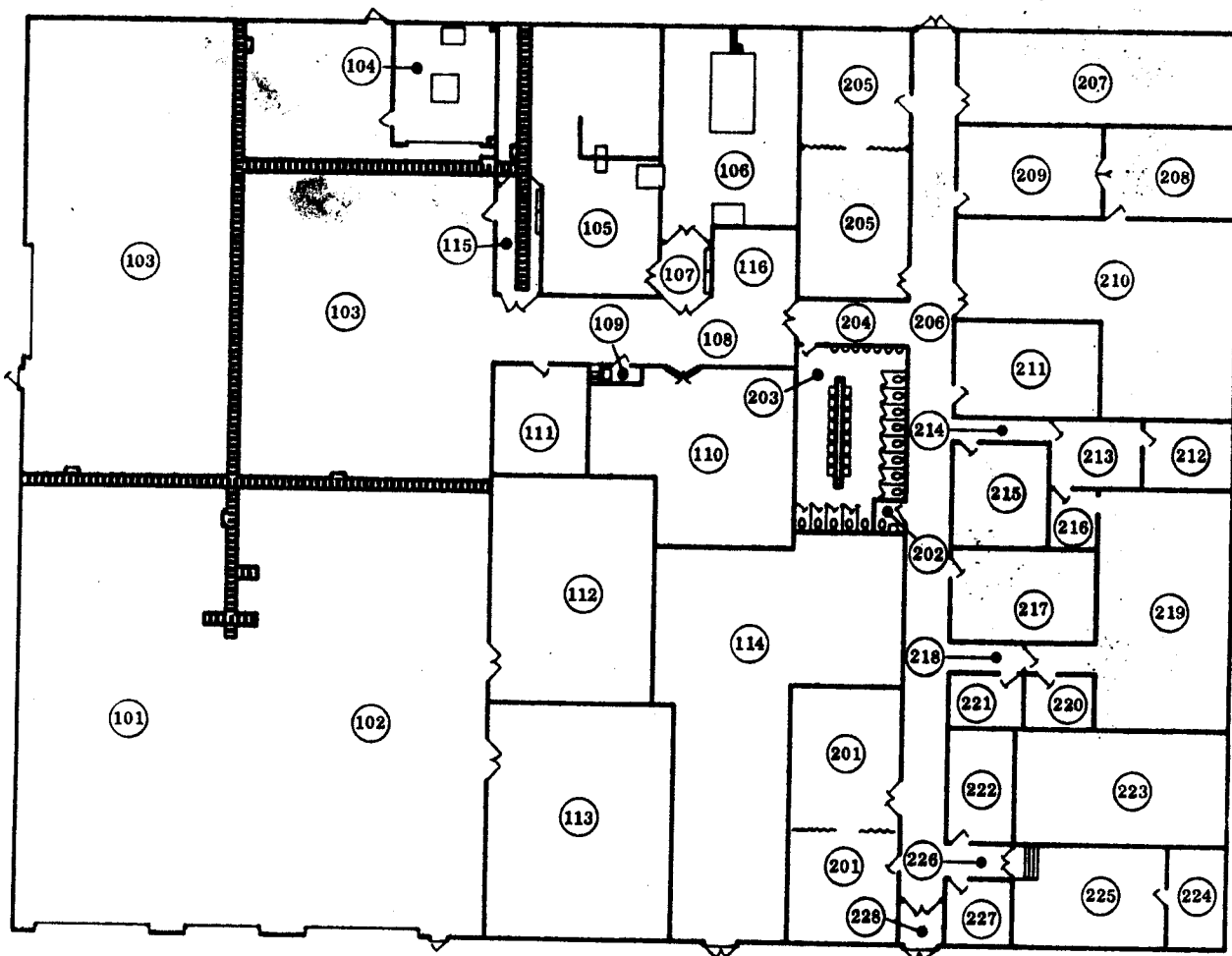
10.45-127

Figure 3-72. Silo Floor



40.45-11A

Figure 4-1. Launch Area External



ROOM NO.	ROOM NAME	ROOM NO.	ROOM NAME
101	GENERAL PURPOSE AREA	207	REPORTS AND ANALYSIS
102	MISSILE ASSEMBLY AREA	208	AIRMEN TESTING
103	ENGINE MAINTENANCE AREA	209	TECHNICAL LIBRARY
104	FLUSH AND PURGE	210	QUALITY CONTROL, MAINTENANCE
105	INSPECTION ROOM	211	STANDARD BOARD
106	FINE CLEANING ROOM	212	PLANNING
107	AIR LOCK	213	COMMANDER
108	CORRIDOR	214	COMMANDER ADMINISTRATION
109	JANITOR'S CLOSET	215	CORRIDOR
110	READY SUPPLY AND TOOLS	216	BRIEFING
111	OFFICE	217	DEPUTY COMMANDER
112	INERTIAL GUIDANCE SYSTEM AREA	218	CONFERENCE
113	ELECTRONIC COMPONENT CHECKOUT	219	CORRIDOR
114	UTILITIES	220	CONTROL ROOM
115	AIR LOCK	221	CONTROL OFFICER
116	PRE CLEANING AREA	222	CONTROL ADMINISTRATION
201	TRAINING	223	COMMUNICATIONS MAINTENANCE
202	WOMEN'S TOILET	224	COMMUNICATIONS EQUIPMENT
203	MEN'S TOILET	225	BATTERY ROOM
204	CORRIDOR	226	TERMINAL
205	CONTRACTOR TECHNICAL	227	CORRIDOR
	SERVICE PERSONNEL	228	COMMUNICATIONS OFFICE
206	CORRIDOR		VESTIBULE

40. 45-77

Figure 5-1. Missile Assembly and Maintenance Shop

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P0806	923-1830	820th Air Division	Sep-Nov 61	History
P0807	348-2008	" " "	Feb 62-Jul 62	"
P0808	4-2225	" " "	Aug 62-Jun 63	"
N0557	483-1755	380th Bombardment Wg	Oct 63-Mar 64	"

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March 1984

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