

The Futuro Fibreglass House has been structurally analyzed and found to comply with the National Building Code of Canada.

Futuro has also met the Building Code requirements of the several other countries in which it has been erected, as might be expected of a House designed in Finland, a country known for the stringency of its National Building Code.

EXTERIOR DESCRIPTION

Futuro is an oblate spheroid (approximately 26' diameter, 12' high; 5,000 cu. ft. volume). The Futuro shell is of fibreglass and polyurethane foam sandwich construction, approximately 2" thick. A tubular steel ring stand evenly supports the House, which, with its ring stand, forms an integral structural unit of very great strength.

EXTERIOR FINISH

The exterior skin is a polyester resin gel coat, with pigmentation permanently imbedded in the plastic for very long life and freedom from maintenance.

FIBREGLASS

Unlike traditional building materials, fibreglass accords exceptional strength, together with outstanding durability. Fibreglass has been used in exposed areas for 40 years without apparent wear or corrosion.

POLYURETHANE FOAM INSULATION

Polyurethane foam (K factor 0.16) is superior to all commonly used insulating materials. 1½" thickness of urethane foam insulation is approximately equivalent to 7-8 inches of normal fibreglass batting insulation.

LEGS

Four sets of tubular steel legs attached to ring stand support. Legs can be had in varying lengths for Futuro installation on any type of sloping terrain.

WINDOWS

Sixteen double-paned windows encircle Futuro. Additional down-view windows are optional.

WIND, SNOWLOAD, CLIMATE

Futuro is designed to withstand the highest temperatures and hurricane force winds easily; as well as the heaviest snowloads and the coldest weather. Calculated wind and snow load 200+100 kg/m².

SITE PREPARATION

Costly foundation work and grading is unnecessary, thus there is no disruption to the ecology.

VERSATILITY

PURCHASER INFORMATION SHEET..2

Since no internal supports are required in Futuro's dome construction, the interior space is entirely flexible. Moreover, any number of additional Futuro shell modules can be directly linked to one another at any time, in a variety of interesting configurations, to create whatever additional space that may be required.

ARCHITECTURALLY DESIGNED INTERIORS

Futuro has been conceived by our Company to come with full interior furnishings and equipment for several possible intended uses. These interiors have been designed by Canadian Architects to be aesthetically complementary to Futuro, space-exploiting, comfortable, multi-functional and durable. Architectural Designs can be provided covering interiors for the following uses for Futuro:

- Futuro Primary House (3 bed room)
- Futuro Primary/Leisure House (Two Types)
- Futuro Dormitory Unit
- Futuro Motel
- Futuro Class Room
- Futuro Medical Unit
- Futuro Duplex (2 linked Futuros)
- Futuro Restaurant/Social Unit
- Futuro Environmentally Planned Community (Exterior)
- Futuro Building System (Exterior)

TRANSPORTATION

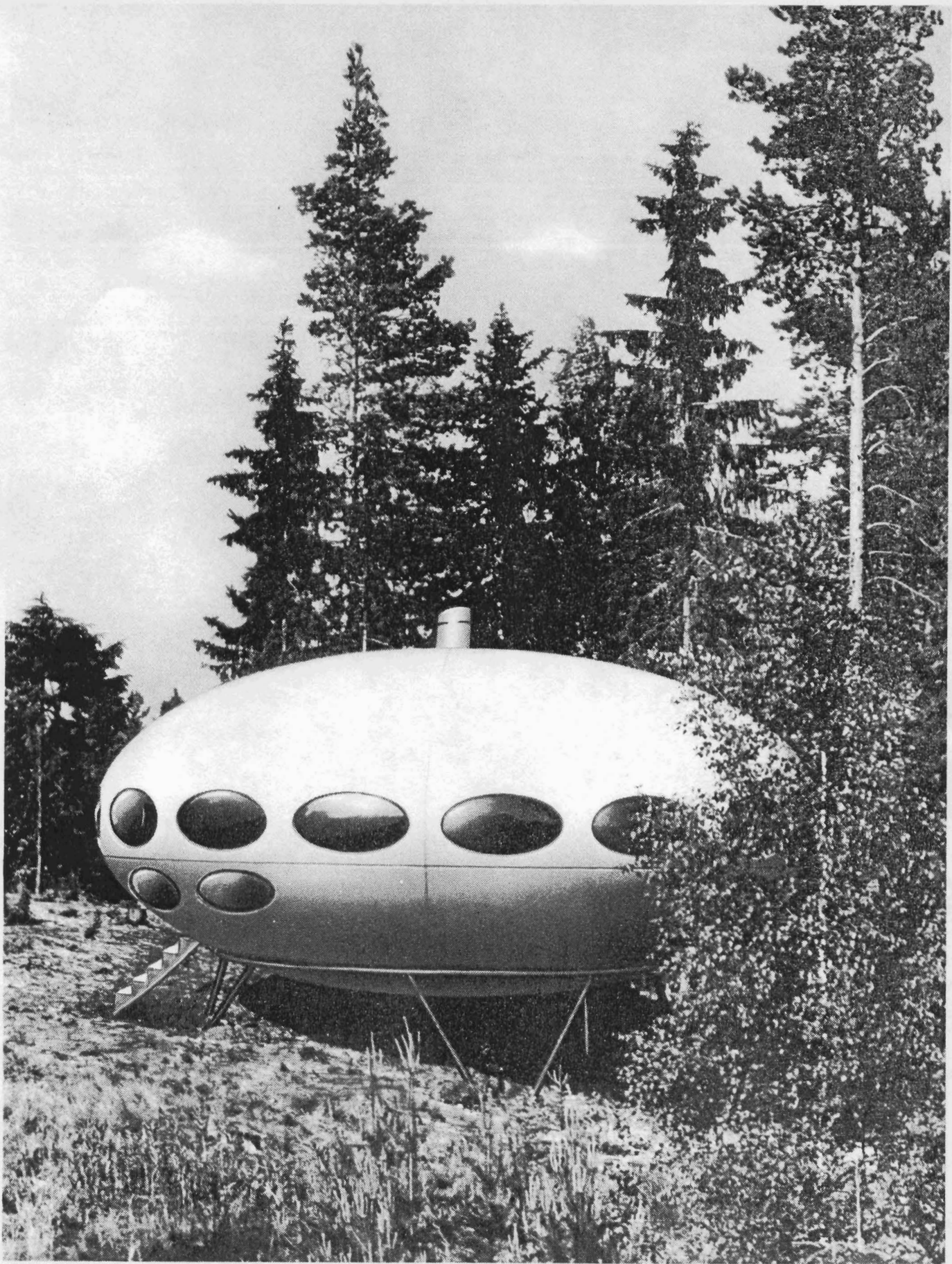
Futuro has been designed to be transported in panel sections by truck, with costs being estimated at \$1.00 per mile.

STRUCTURAL SHELL PANELS and SITE ERECTION

Futuro is comprised of 16 fibreglass/polyurethane foam structural panels (8 upper & 8 lower). The area of each panel (including flanges) is approximately 90 sq. ft., with each panel weighing approximately 140 pounds. Futuro's light weight, simple, curved panel technology enables the talented do-it-yourselfer, or a general contractor, to attach the panels together, using standard tools, and to erect the House.

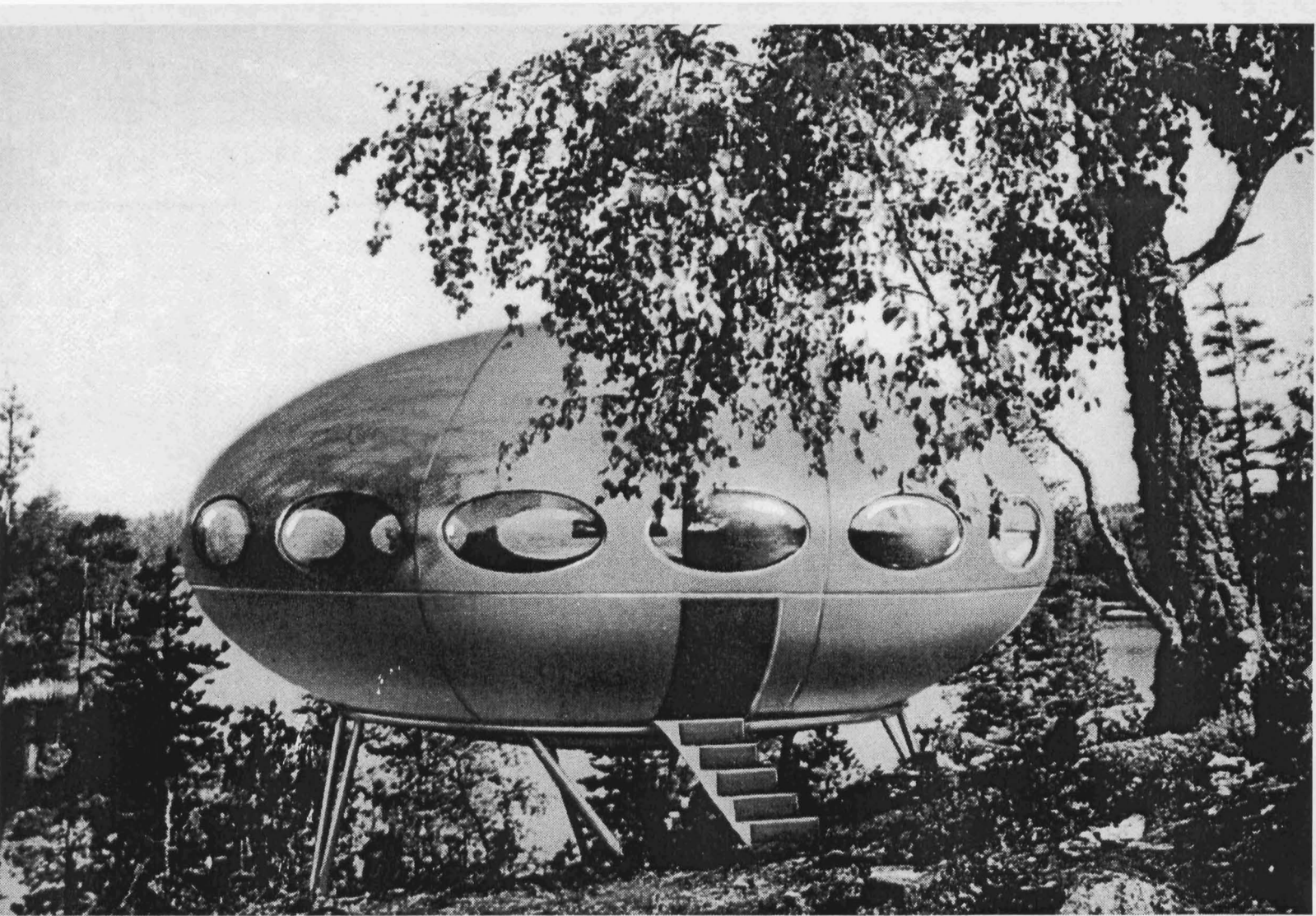
The Futuro structural design, as well as its interiors, are Registered with the Patent Office of Canada.

All specifications and prices subject to change without notice.

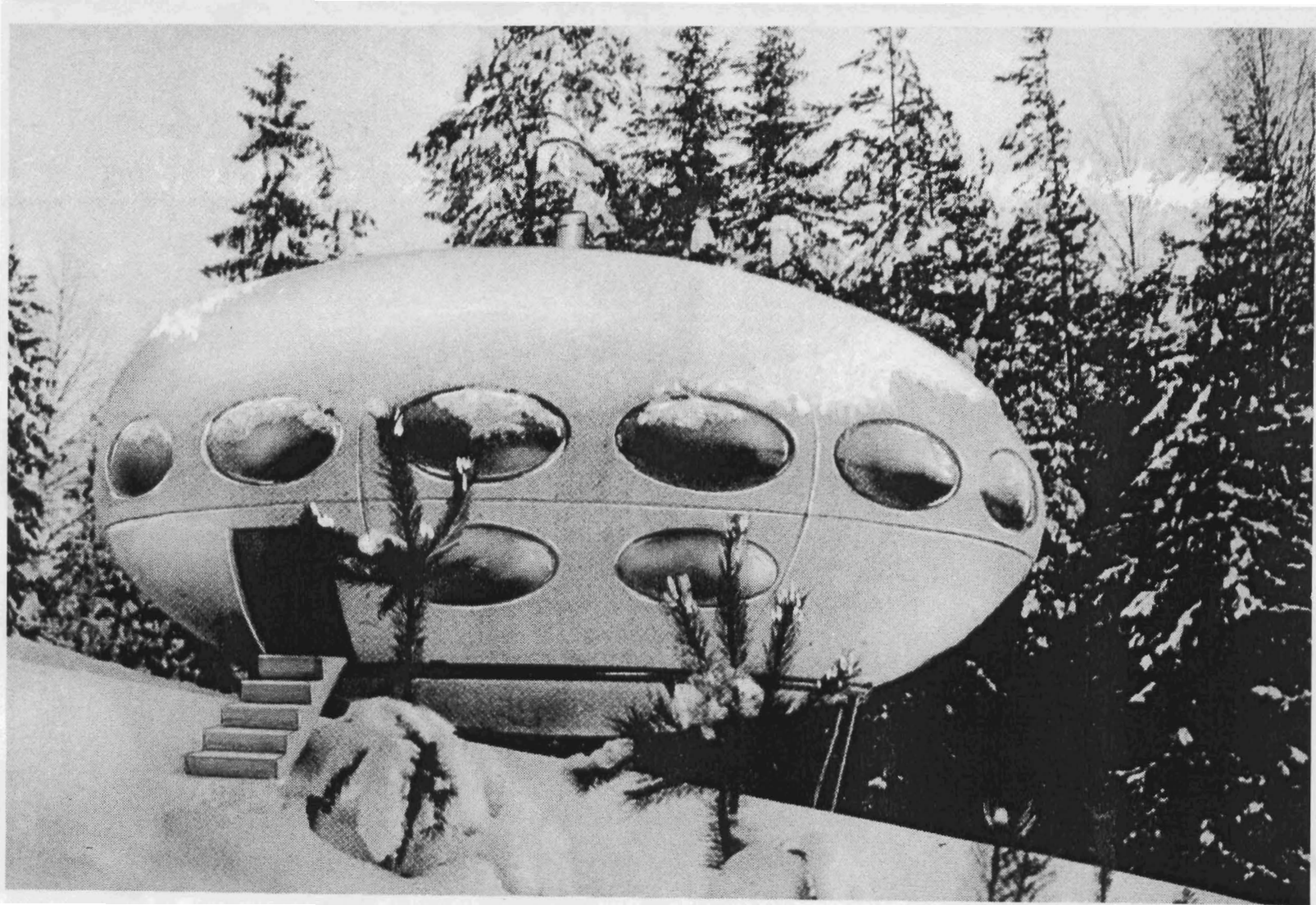


THE FUTURO FIBREGLASS HOUSE

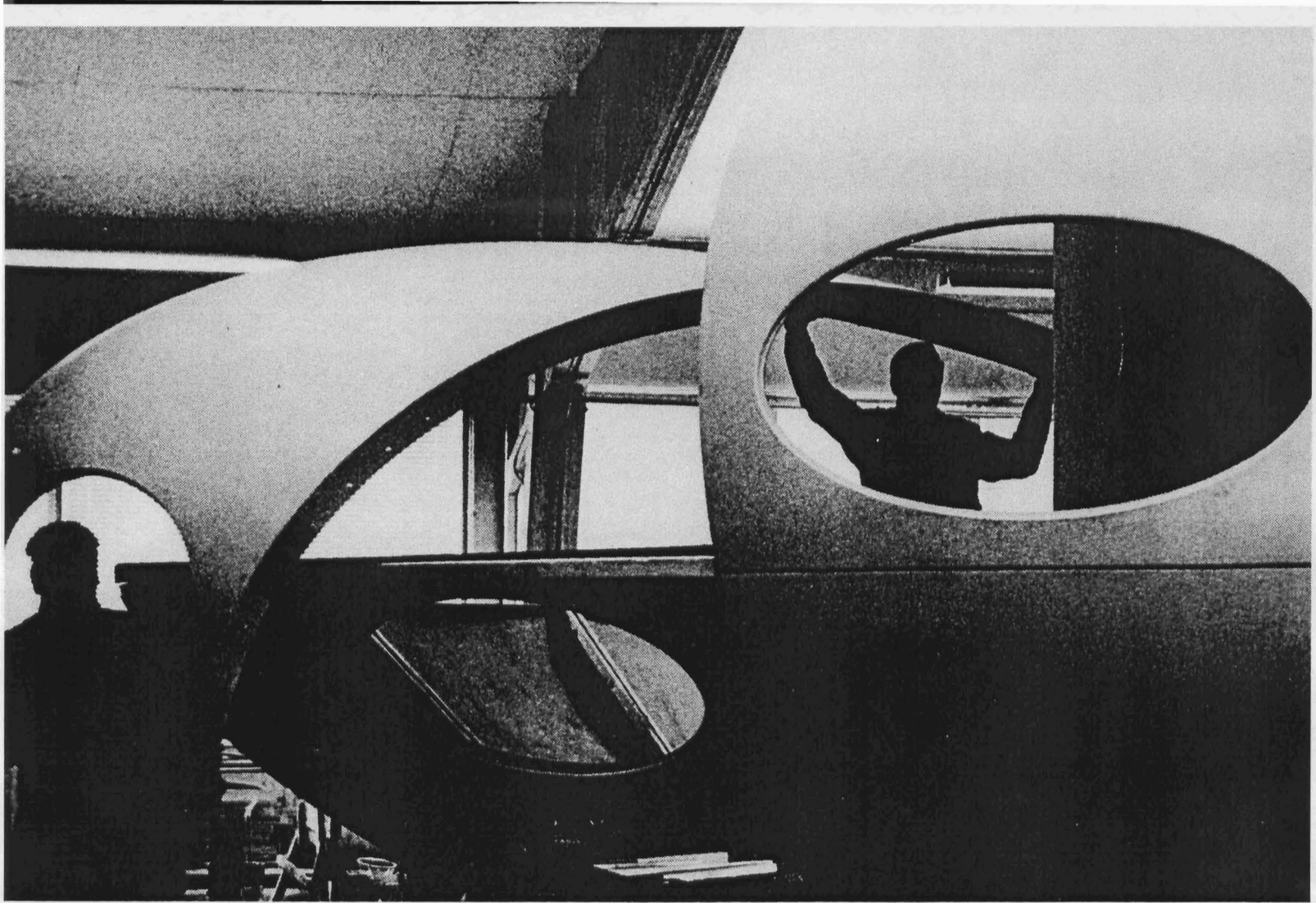
"The most popular feature we've ever run was, surprisingly, about a (FUTURO) home, September 1970's 'Portable Playhouse Letters are still coming in' quoted from Playboy, January 1974. The 20th Anniversary Issue.



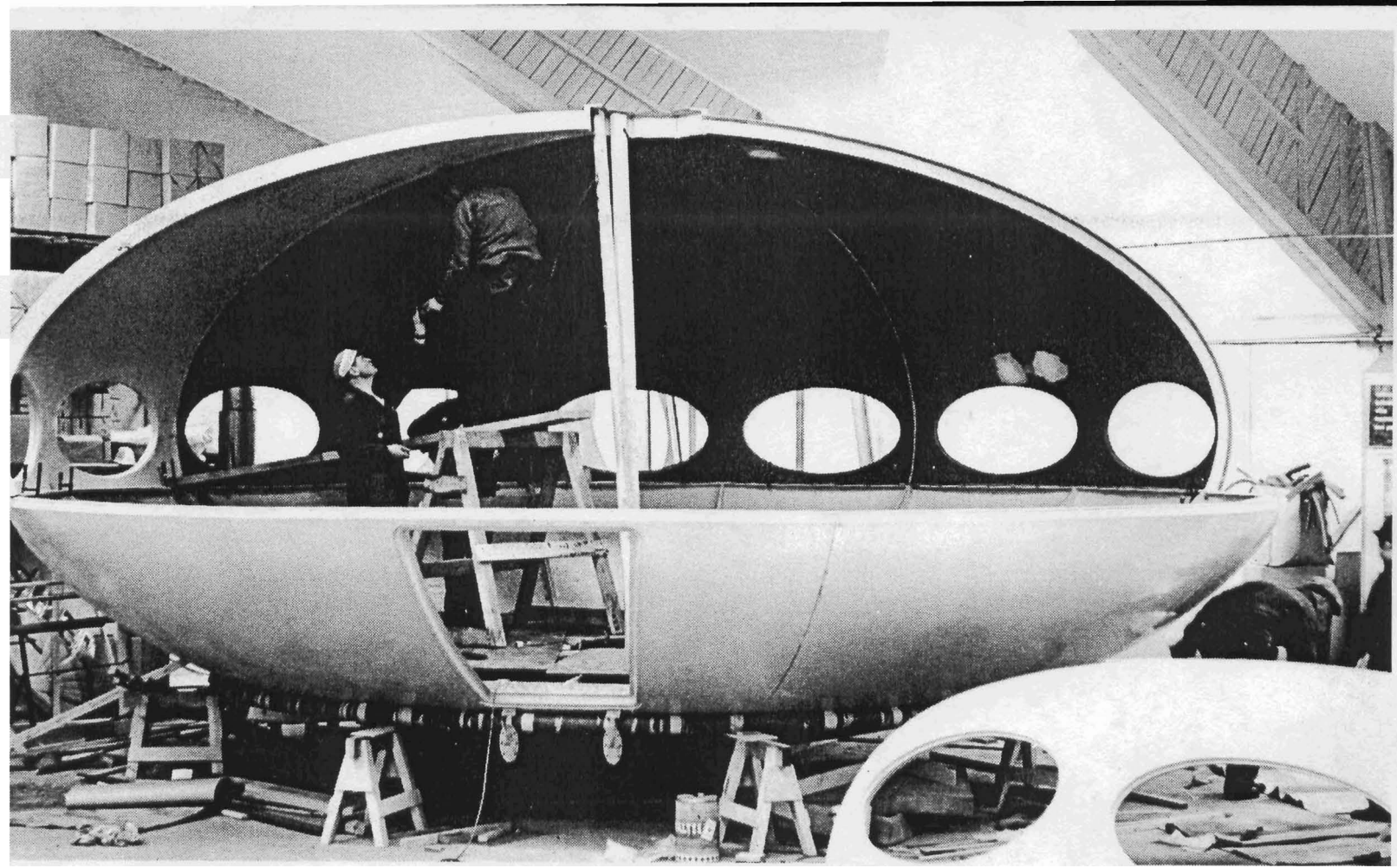
LAKESIDE FUTURO Proportionable legs of ring stand allow easy and uncostly siting of Futuro on any terrain, without grading and without ecological disruption. Retractable door accords extra security.



THE FUTURO FIBREGLASS HOUSE Superior strength and insulation, together with unique aerodynamics, make Futuro unsurpassable for Canadian conditions.



FUTURO'S SIMPLE REPETITIVE CURVED PANEL TECHNOLOGY: The light weight (approx. 138 lbs.) of each of Futuro's 16 (8 upper & 8 lower) fibreglass/foam structural panels enables easy, low-cost site assembly of Futuro anywhere; yet provides a House of surpassing strength and insulation.



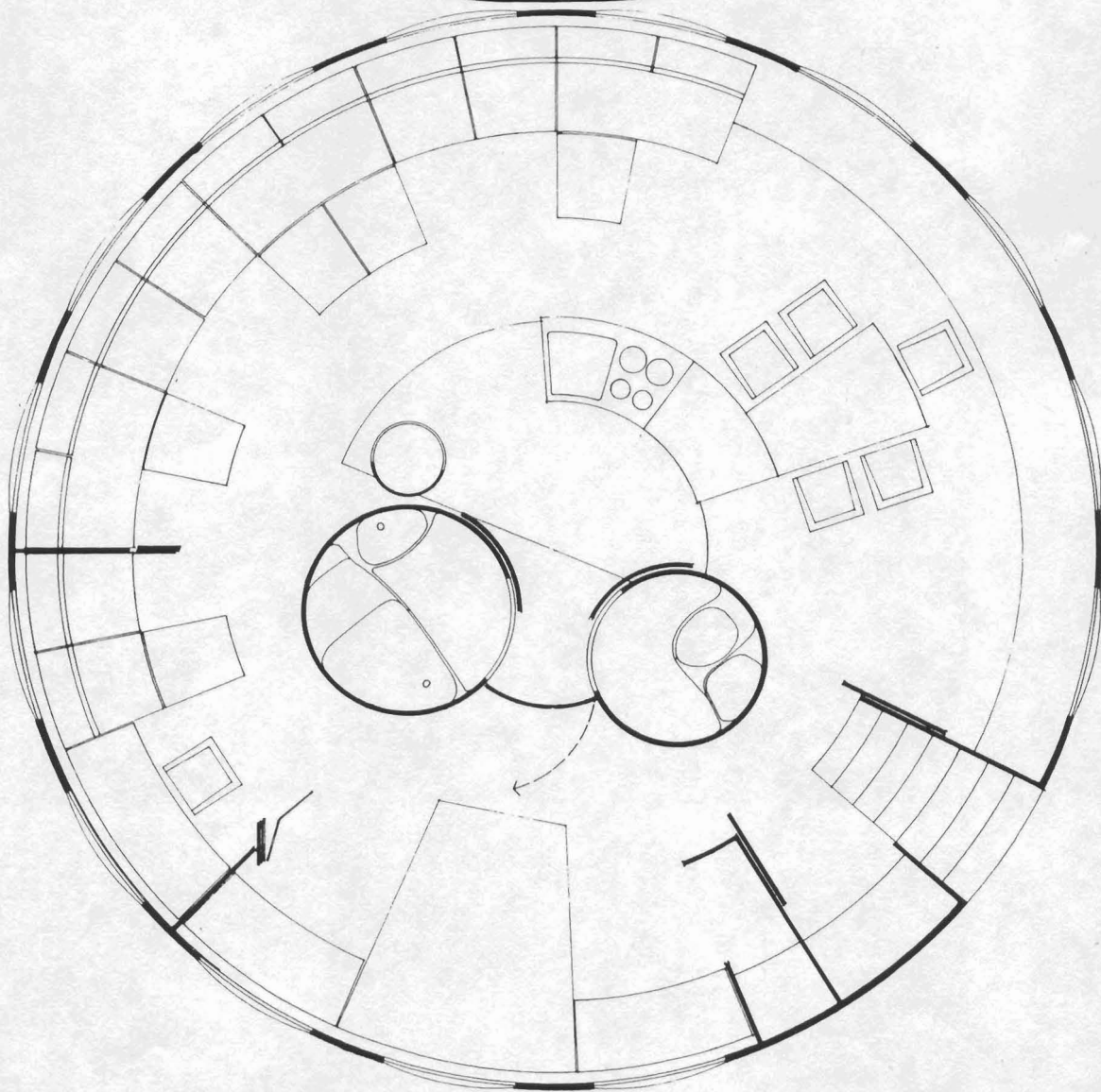
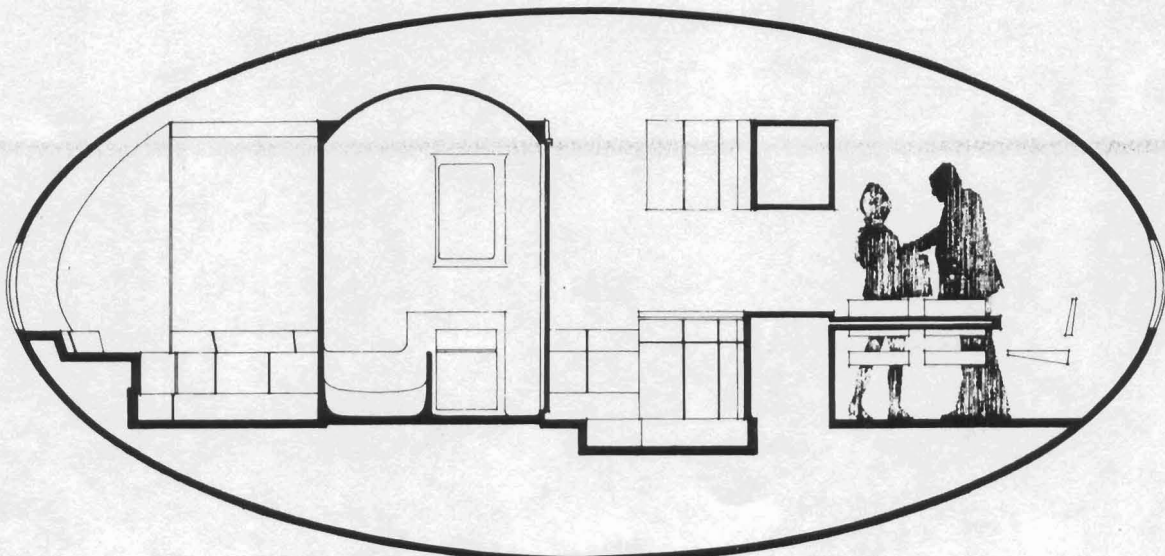
FUTURO STRUCTURAL SHELL Here being assembled by unskilled labour team, using standard tools.



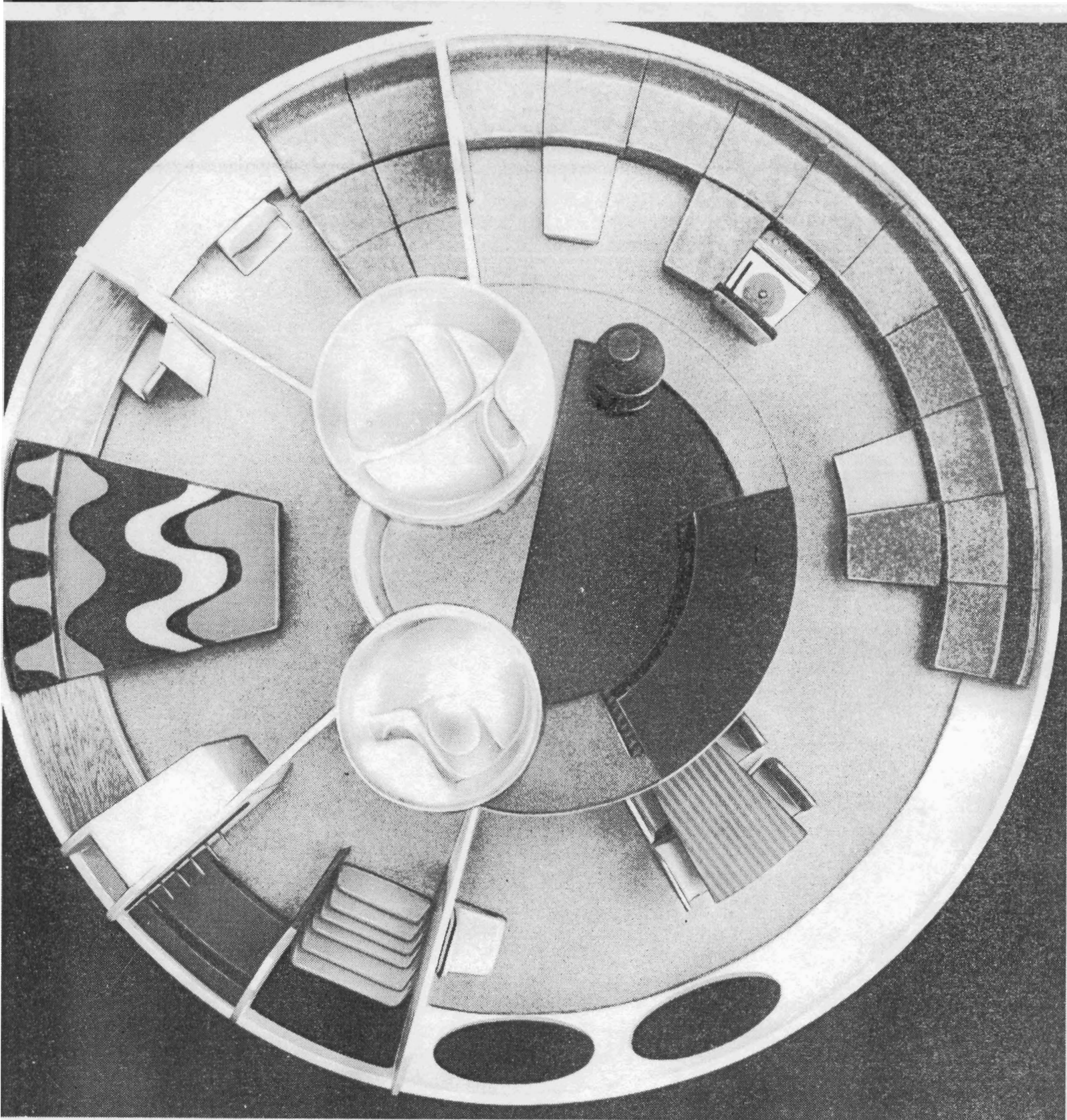
"Woodbridge, New Jersey — An S-64 Skycrane, built by the Sikorsky division of United Aircraft Corporation, Stratford, Conn., recently airlifted a (FUTURO) Bank Branch Unit and placed it on its site in the main parking area of the Woodbridge Shopping Centre here. The unique structure owned by the City Federal Savings and Loan Association is called a "space bank". It is a factory built spheroid 26' in diameter, 12' high, containing 5,000 cubic feet and weighing 13,500 pounds.* It was flown and placed with interior appointments including carpeting, teller counters, cabinets and seating. Electrical and telephone connections were made immediately and the bank was opened for business 30 minutes after it was lowered from the sky. This demonstrates a new concept of aerial delivery of complete prefabricated buildings by the 10 - ton payload Skycrane."

"The Gazette," Montreal, July 11, 1972.

*Including the weight of the safe and other heavy banking equipment.

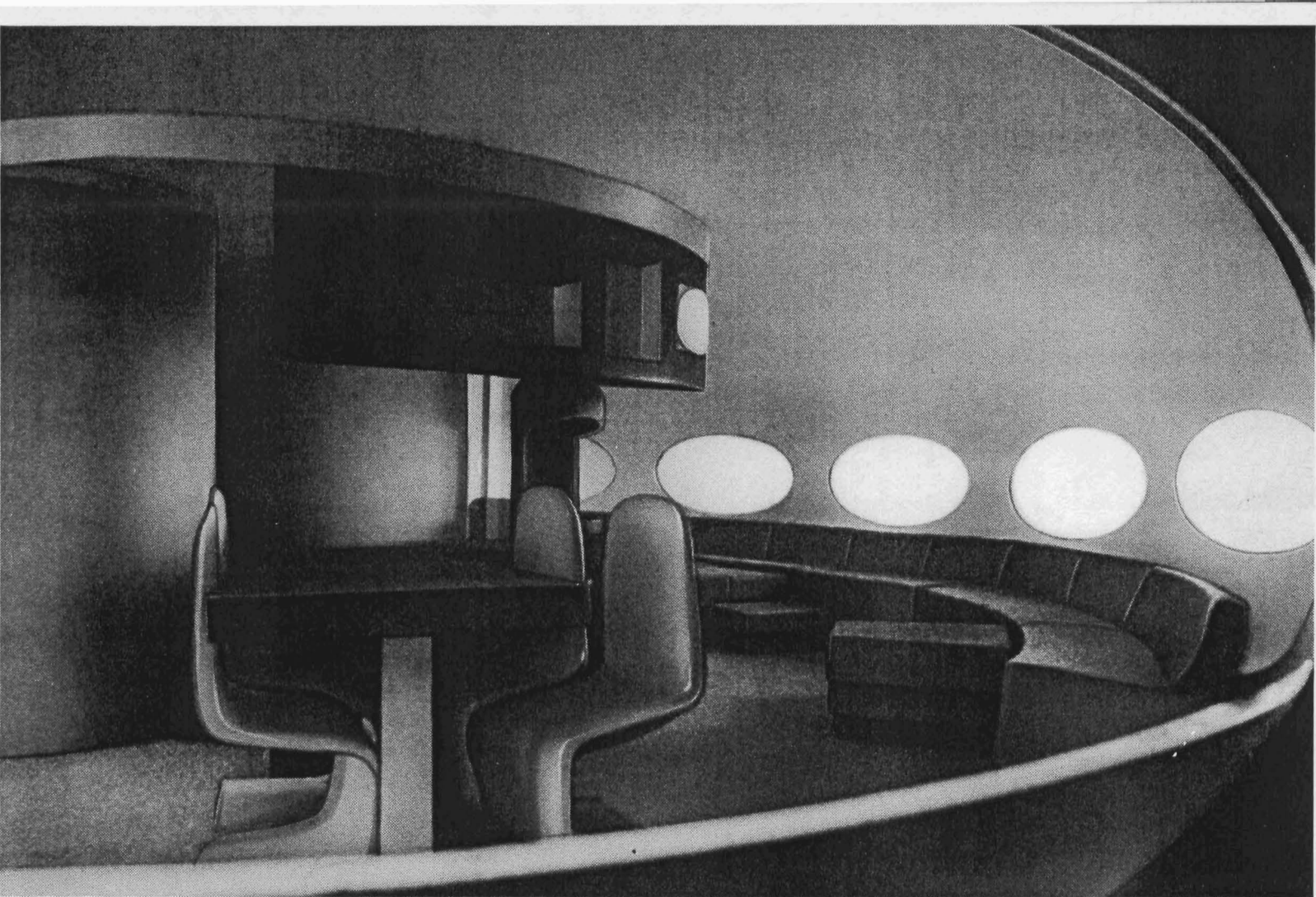


FUTURO LEISURE HOUSE TYPE 1 Illustrating master bed room (bottom), guest bed room (bottom left), plus provision for additional overnight accomodation (privately) using convertible banquettes in living area. In this, and in other Futuro layouts, note placement of bath room units (i.e. the two centre circles. The larger is a sit-down bath/shower with adjacent sink/vanity cabinet; the smaller is a toilet with sink/vanity cabinet - the whole unit also serving as a second shower compartment). The two bath room units, in addition to their multi-function, are accessible from all parts of the house, provide points for room partitioning and create pleasing sculptural statements.



FUTURO LEISURE HOUSE TYPE 1

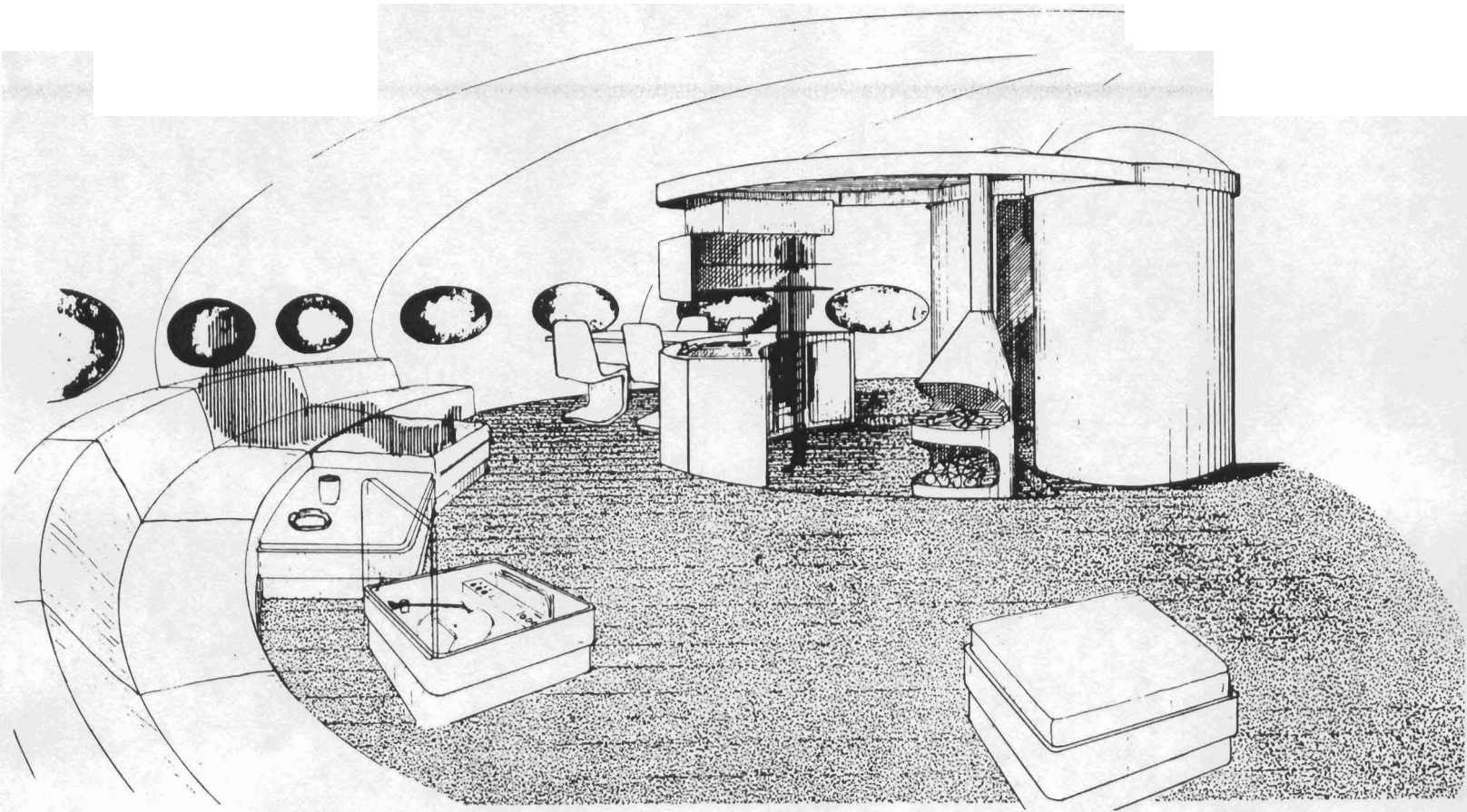
Bird's eye view of interior, illustrating openness of plan and modularity of banquette furniture system which can serve as sofa/chaise/bed/table/storage.



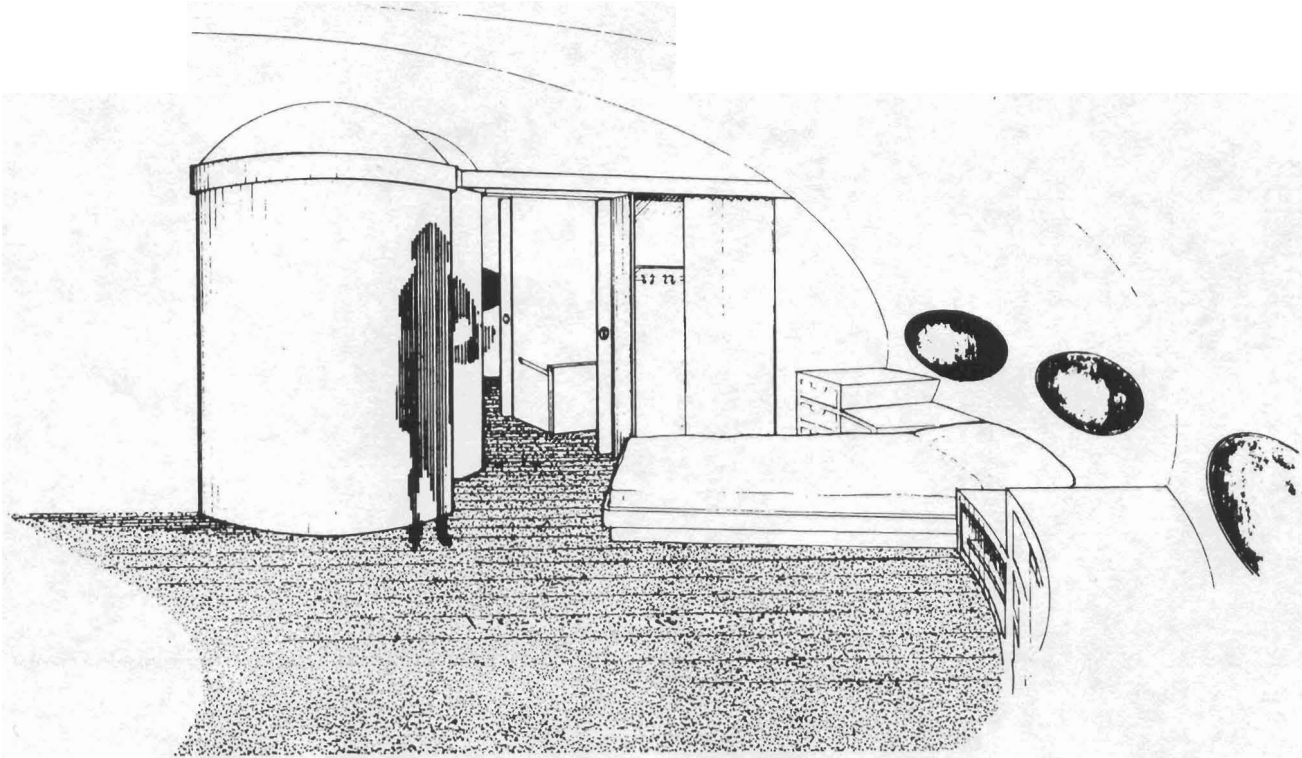
FUTURO LEISURE HOUSE TYPE 1

Illustrating spatial qualities of dome roof, panorama of windows and commodious banquette/chaise seating (convertible into additional guest sleeping). (From dining area).

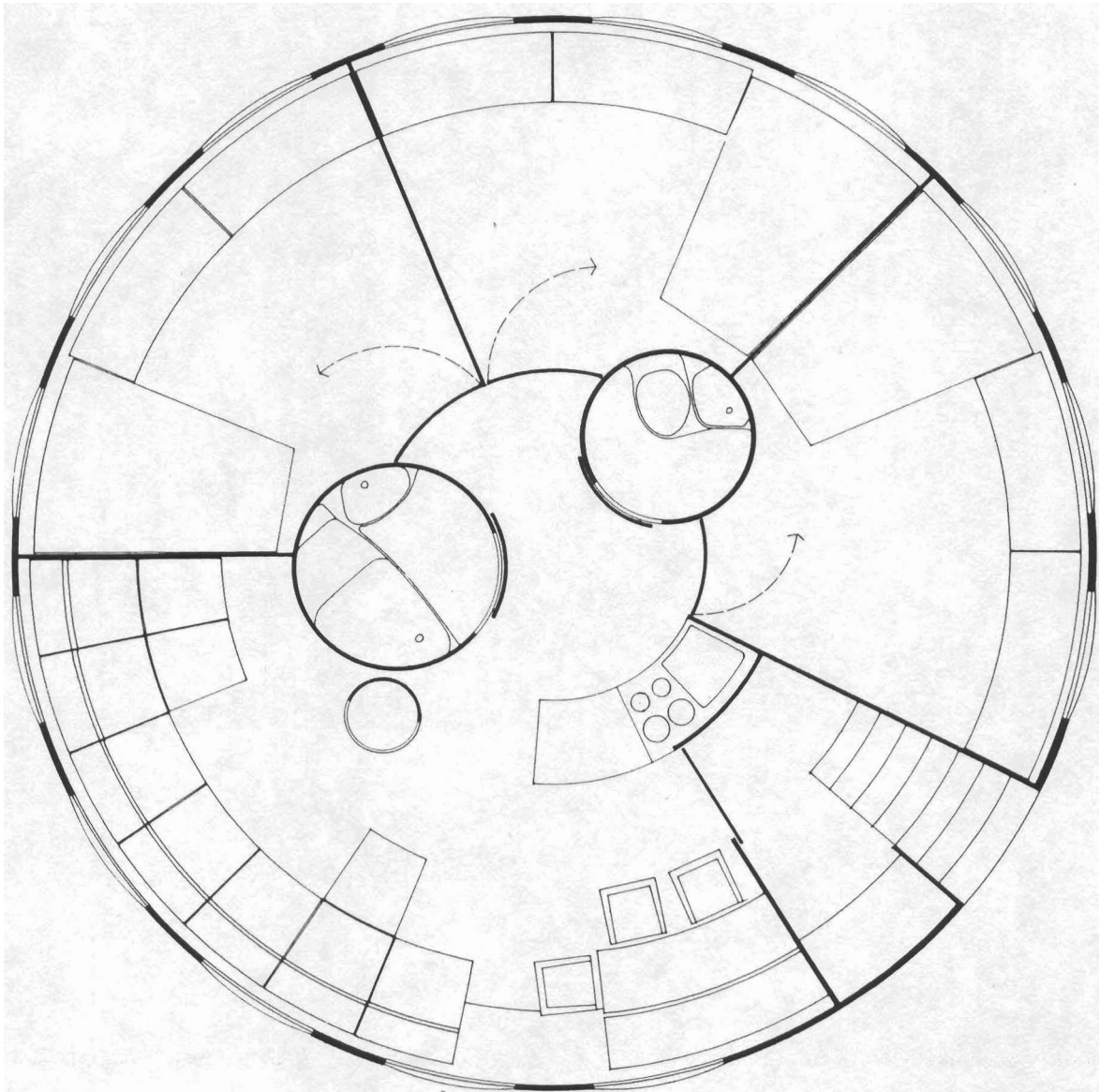
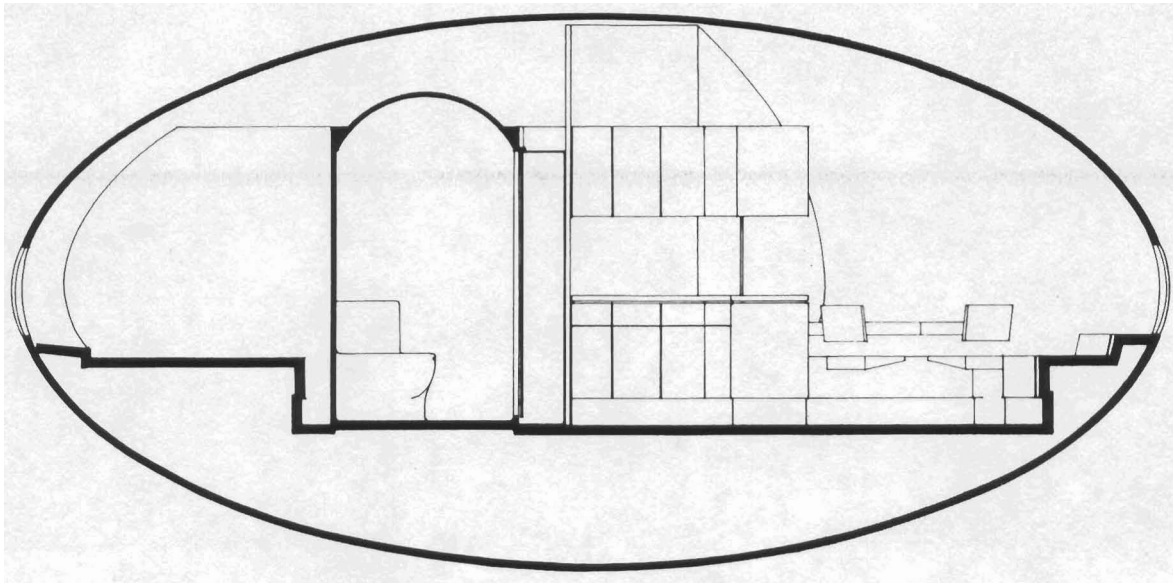
FUTURO LEISURE HOUSE Type 1



Partial view from living/dining area. Canopied cylinders are bathrooms (2).

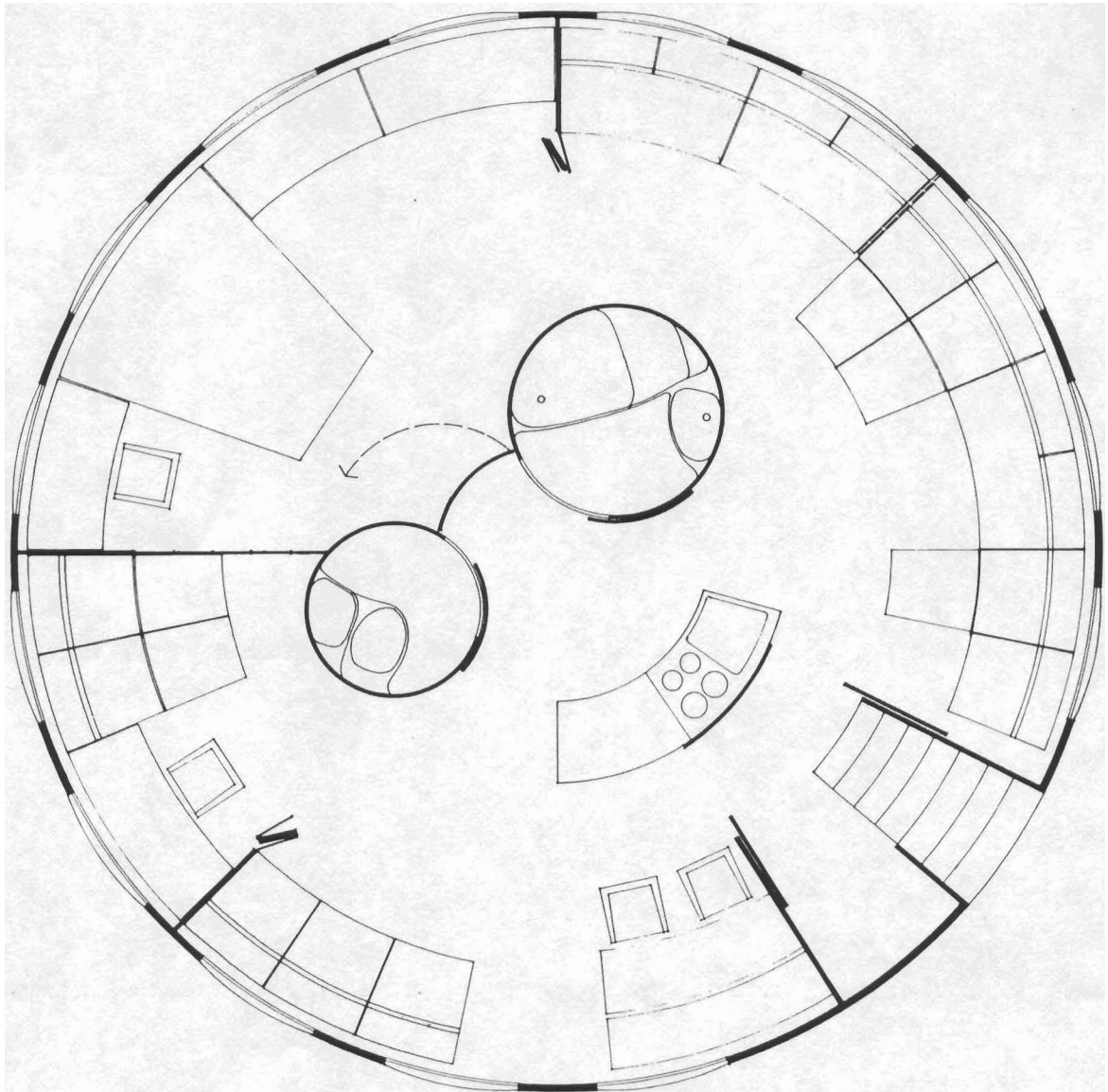
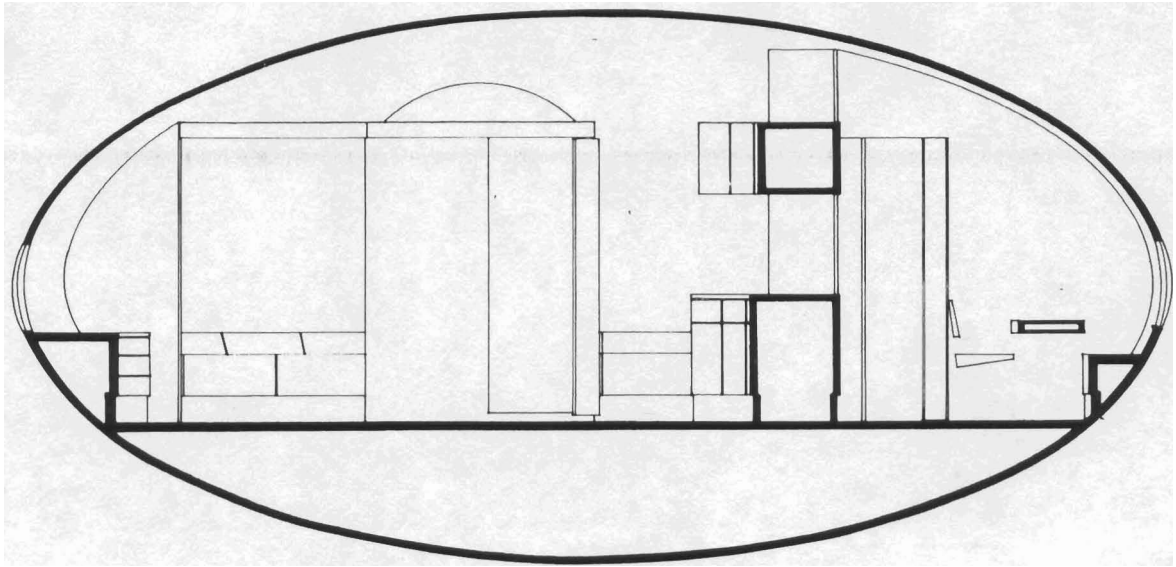


Master bed room Guest bed room in Leisure model not shown here. Additional sleeping accomodation provided by modular furnishings in living area (top).

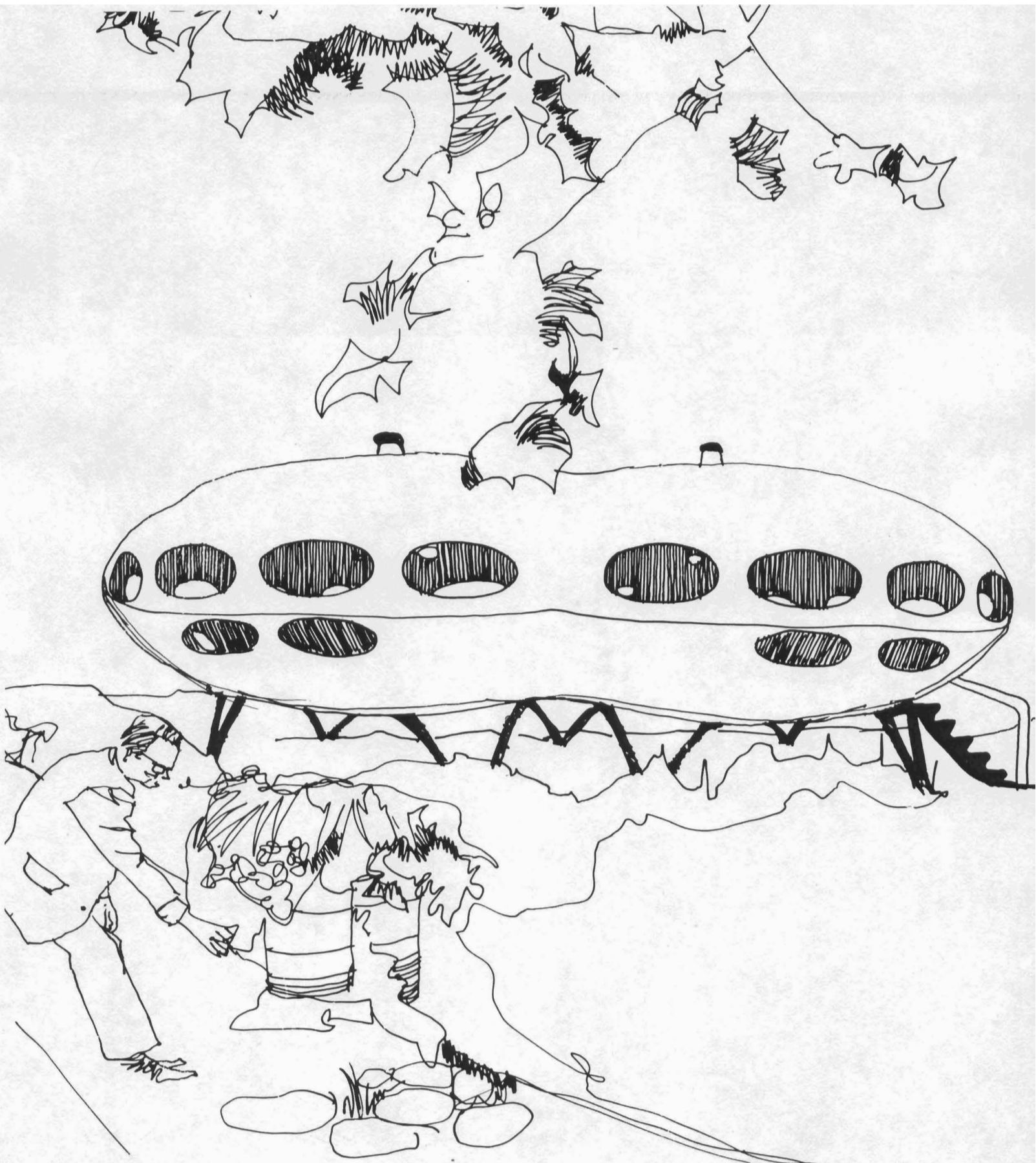


FUTURO PRIMARY HOUSE

(3 Bed Room): Note placement of bathroom units (i.e., the two centre circles. The larger is a sit-down bath/shower with adjacent sink/vanity cabinet; the smaller is a toilet with sink/vanity cabinet – the whole unit also serving as a second shower compartment). The two bathroom units, in addition to their multi-function, are accessible from all parts of the house, provide points for room partitioning and create pleasing sculptural statements.

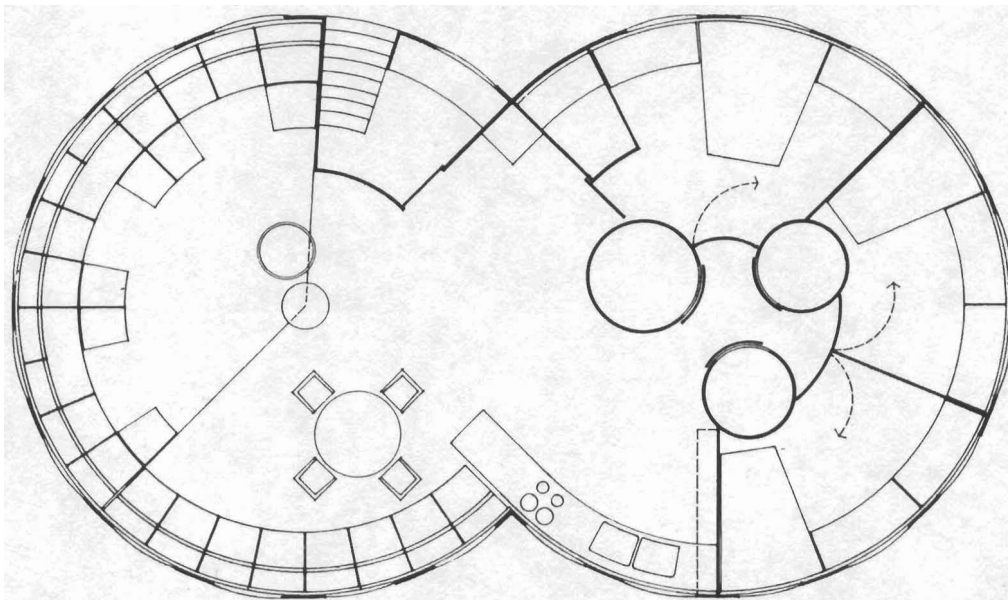
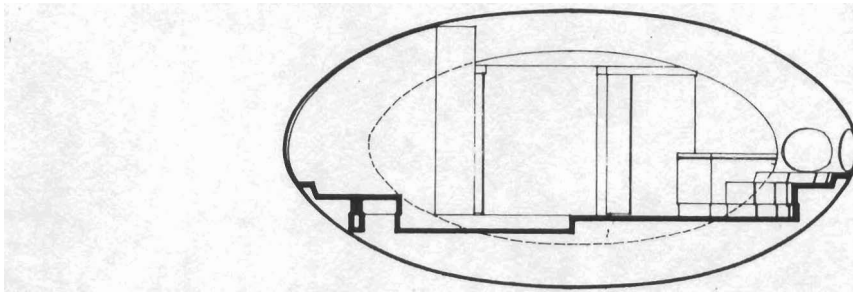
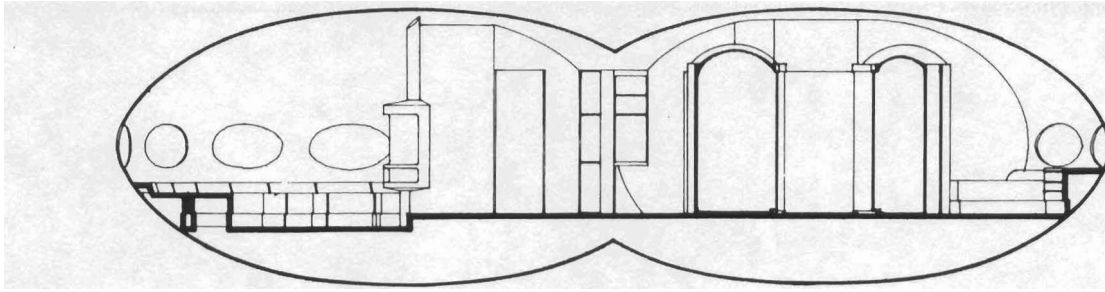


FUTURO LEISURE/PRIMARY HOUSE TYPE 2 More open in plan than 3 bedroom Futuro House; yet having 3-4 bedroom potential. Note extra large treatment of master bedroom.

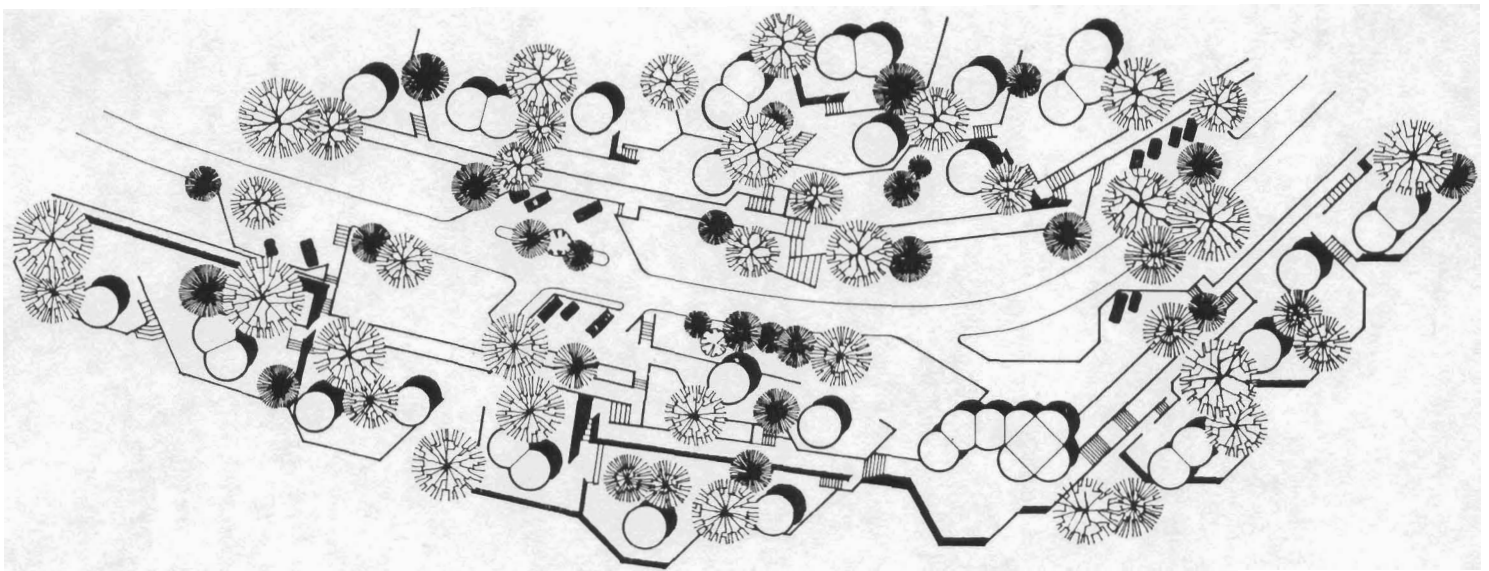
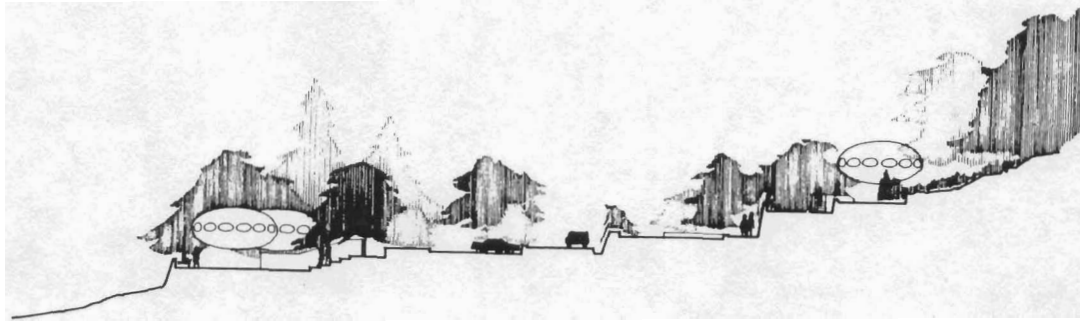


**FUTURO LINKED HOUSE
(DUPLEX)**

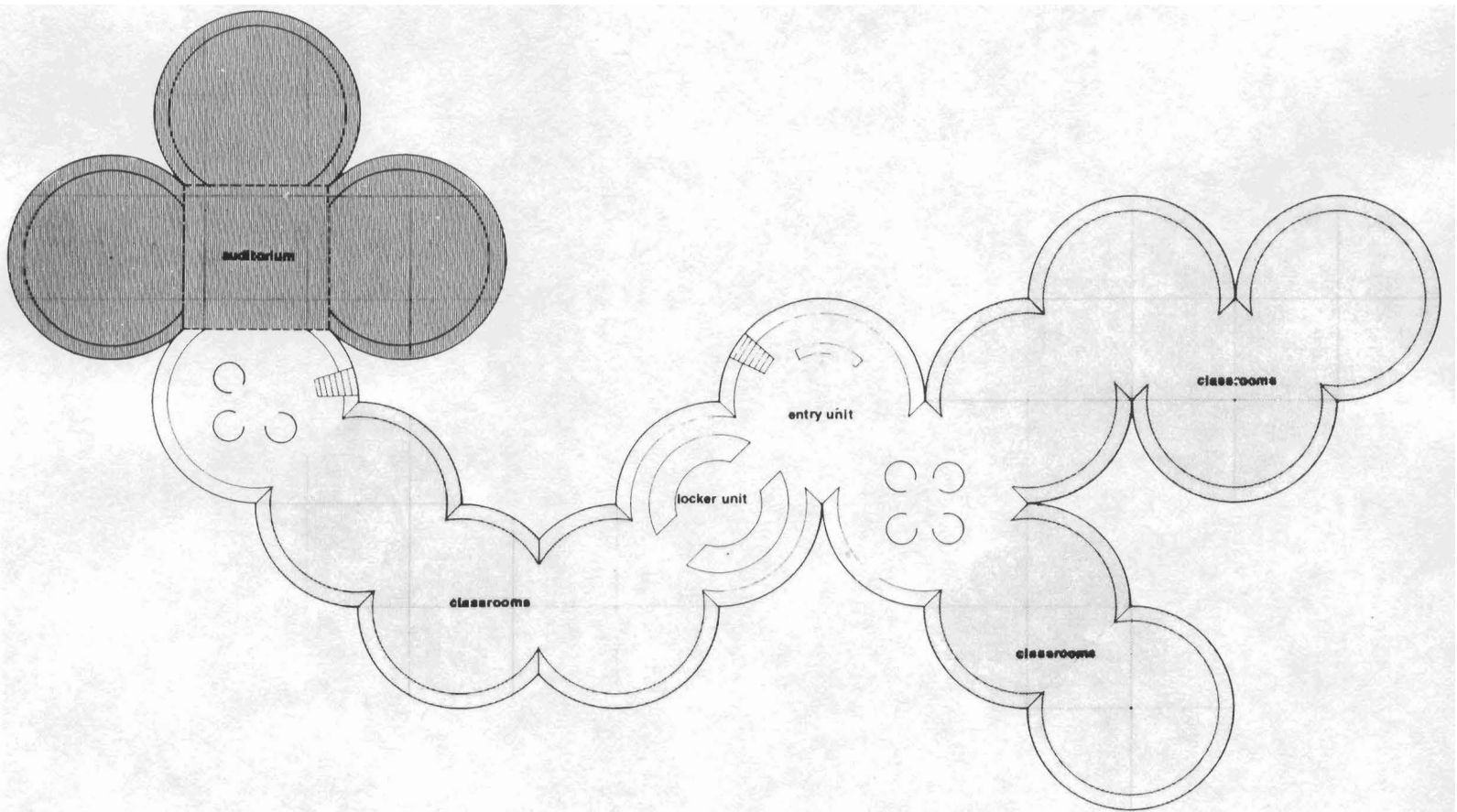
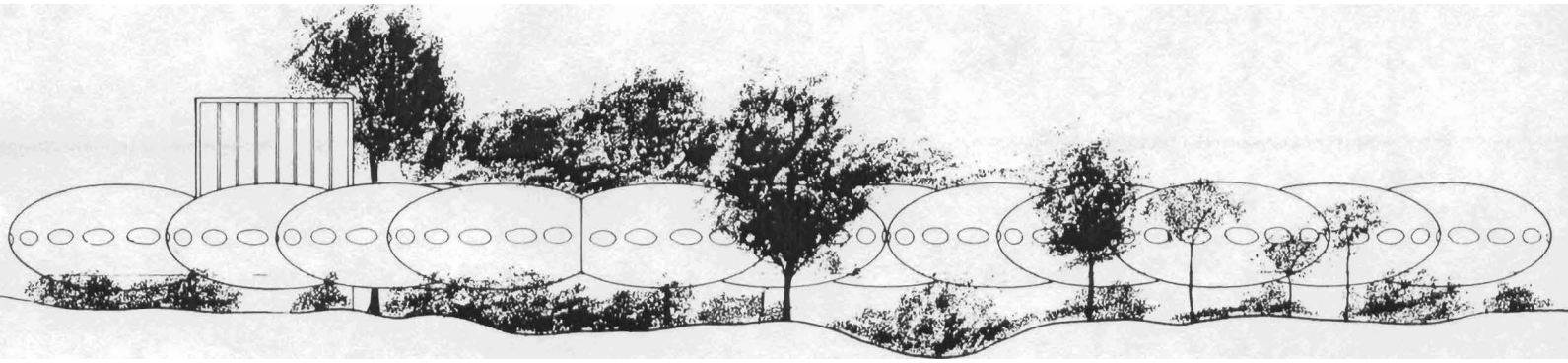
Comprised of 28 (14 upper & 14 lower) fibreglass/foam panels vs. the 16 (8 upper & 8 lower) panels that make up the single Futuro structure. Can be purchased as Duplex, or expanded from single Futuro at any time. Also expandable into Triplex, Quadroplex, etc., as well as being contractable at any time.



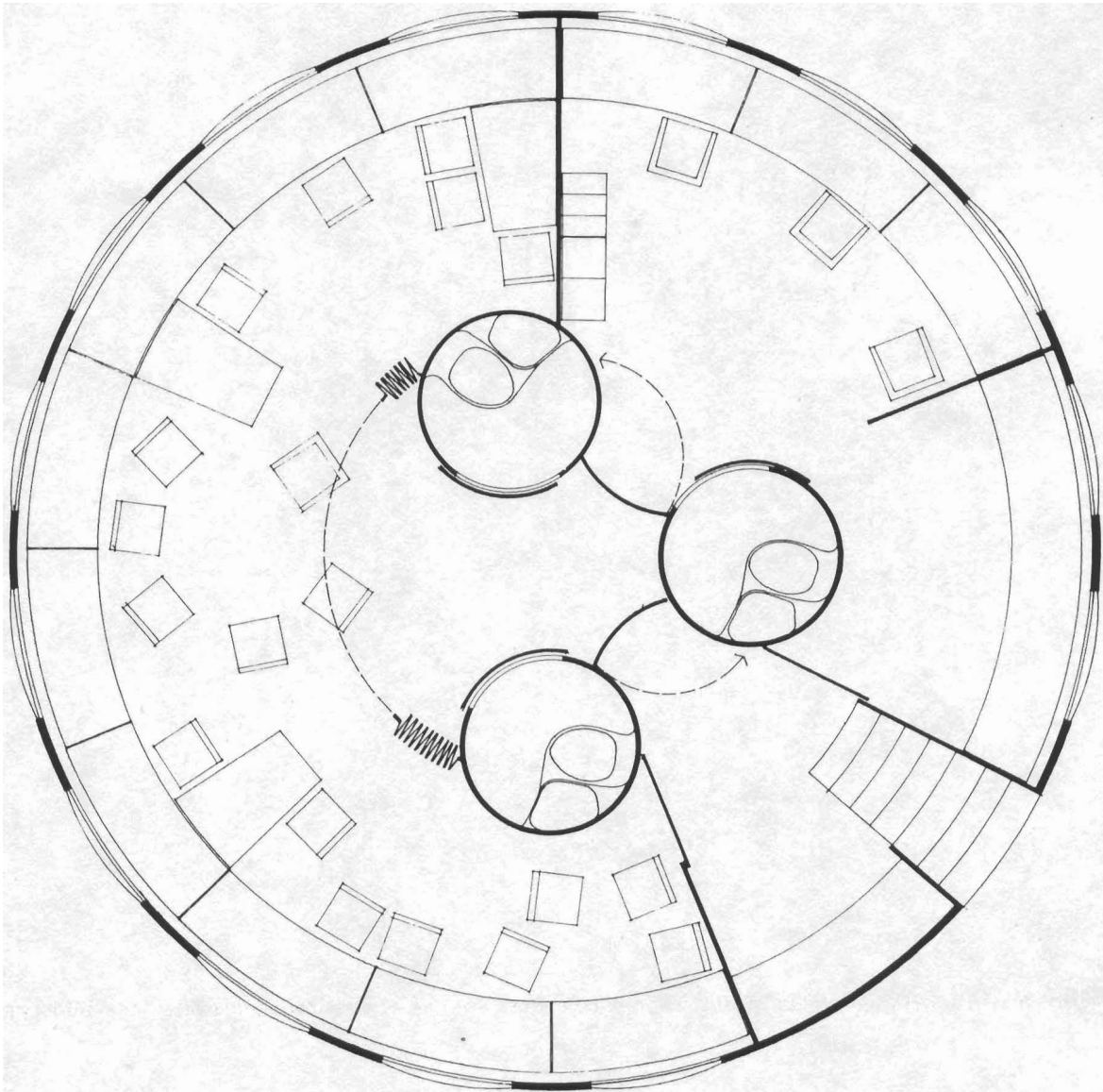
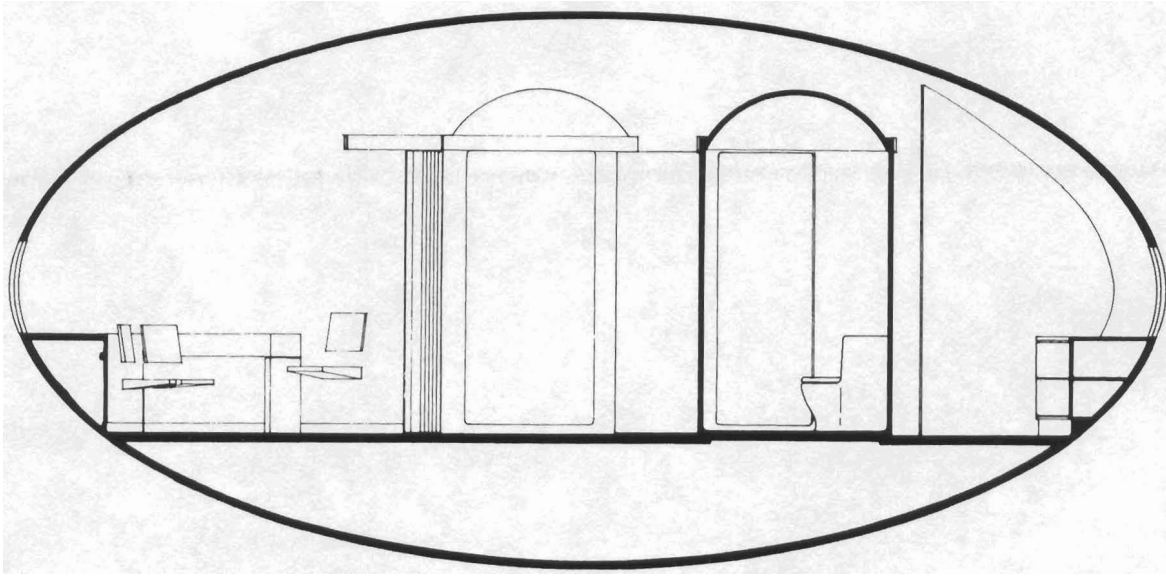
FUTURO LINKED HOUSE Obtuse angle in living area indicates sunken living room floor, with the two circles representing the fireplace and the living room exhaust plenum. In the bedroom quarters at the right, 3 bathroom units can be seen which provide 1 bath, 3 showers, 2 toilets and 3 sinks with vanity cabinets.



FUTURO ENVIRONMENTALLY PLANNED COMMUNITY 360° orientationability of each Futuro Residential Unit enables inhabitants to enjoy maximum visual and adjacent-to-residence land use privacy (versus popular standard row-housing developments with their linear and unprivate front door and front patio arrangements). Easy ring stand siteability of Futuros on any favourable natural landscape can further enhance environmental and private values, whilst at the same time achieving adequate land use densities to make the Futuro Community economically attractive to potential residents. Note planned separation of pedestrian and vehicular traffic and accoustical landscaping. Also depicted are Linked Futuro Units in Duplex, Triplex (Quadroplex) configurations (possible anytime). Futuro Community Centre complex (lower right) illustrates Futuro's further Building System potential. Scheme would make most attractive Condominium development with added advantage to owner-resident of portability of his Futuro. Similar application to Resort Area Development where Futuro's omni-siteability could exploit otherwise un-useable hilly or mountainous terrain (and vistas). As a classically pure form in this regard, Futuro would both complement and be unobtrusive with the landscape.

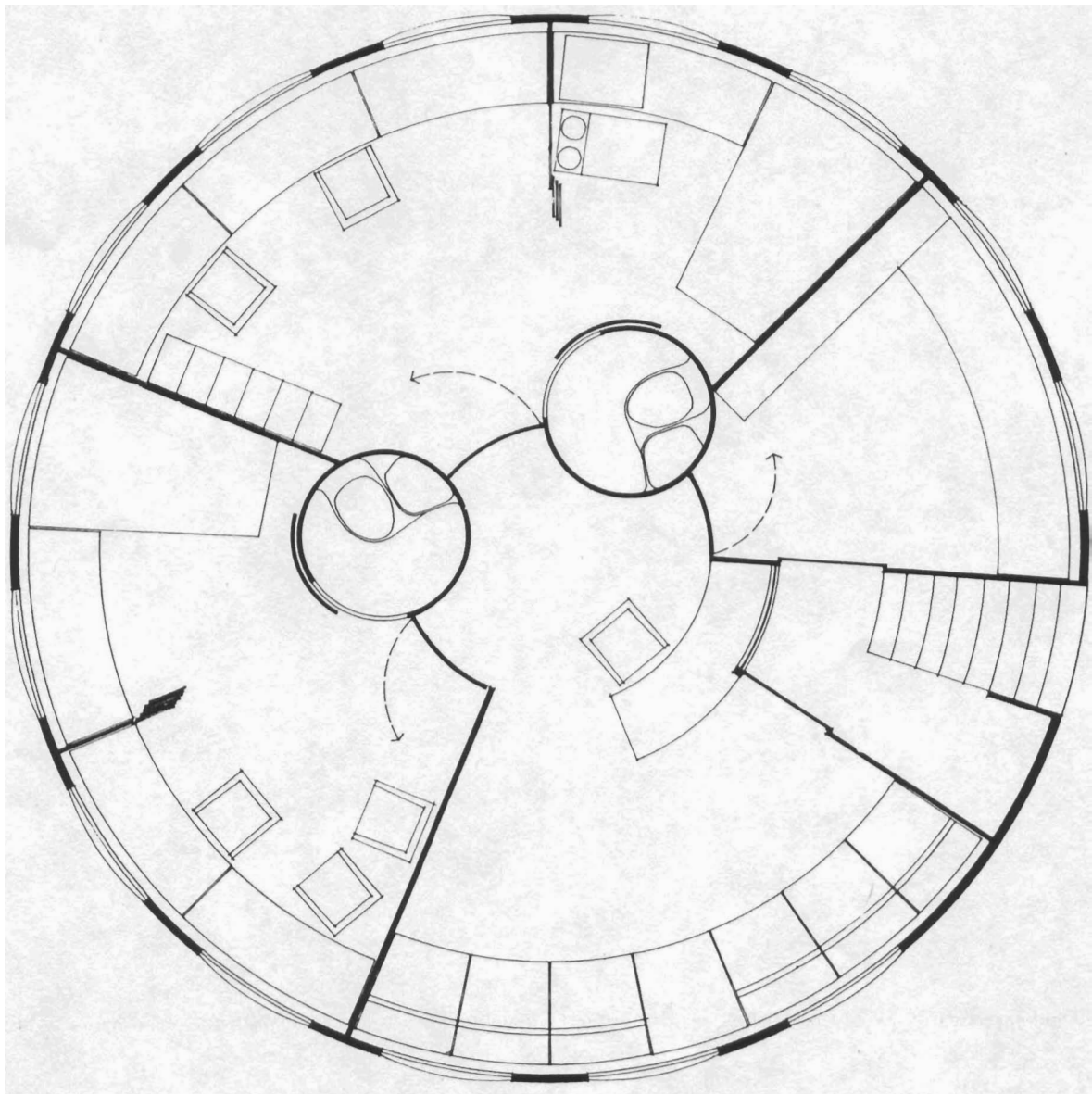
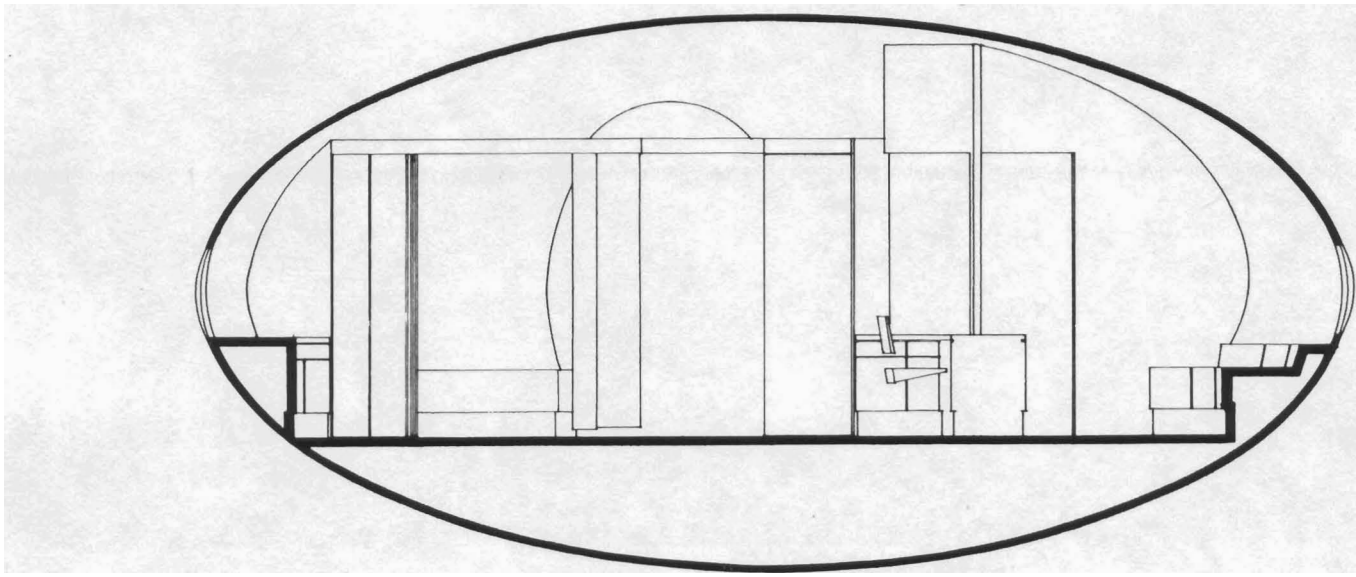


FUTURO BUILDING SYSTEM Illustrated here as School Facility. Also highly applicable to low-cost housing schemes such as Senior Citizens' Residences; as well as Dormitory, Motel, Natural Resource Area, etc. Housing Systems. Features ready siteability on any terrain without grading, open-ended expandability in interesting and endless patterns, and easy removeability from site for relocation or for resale for any of several other possible applications, including single Futuro Houses. Eminently suitable for use in Arctic areas, initially as Dormitory Building System to house construction personnel, subsequently separable into Residential Units to form permanent townsite.

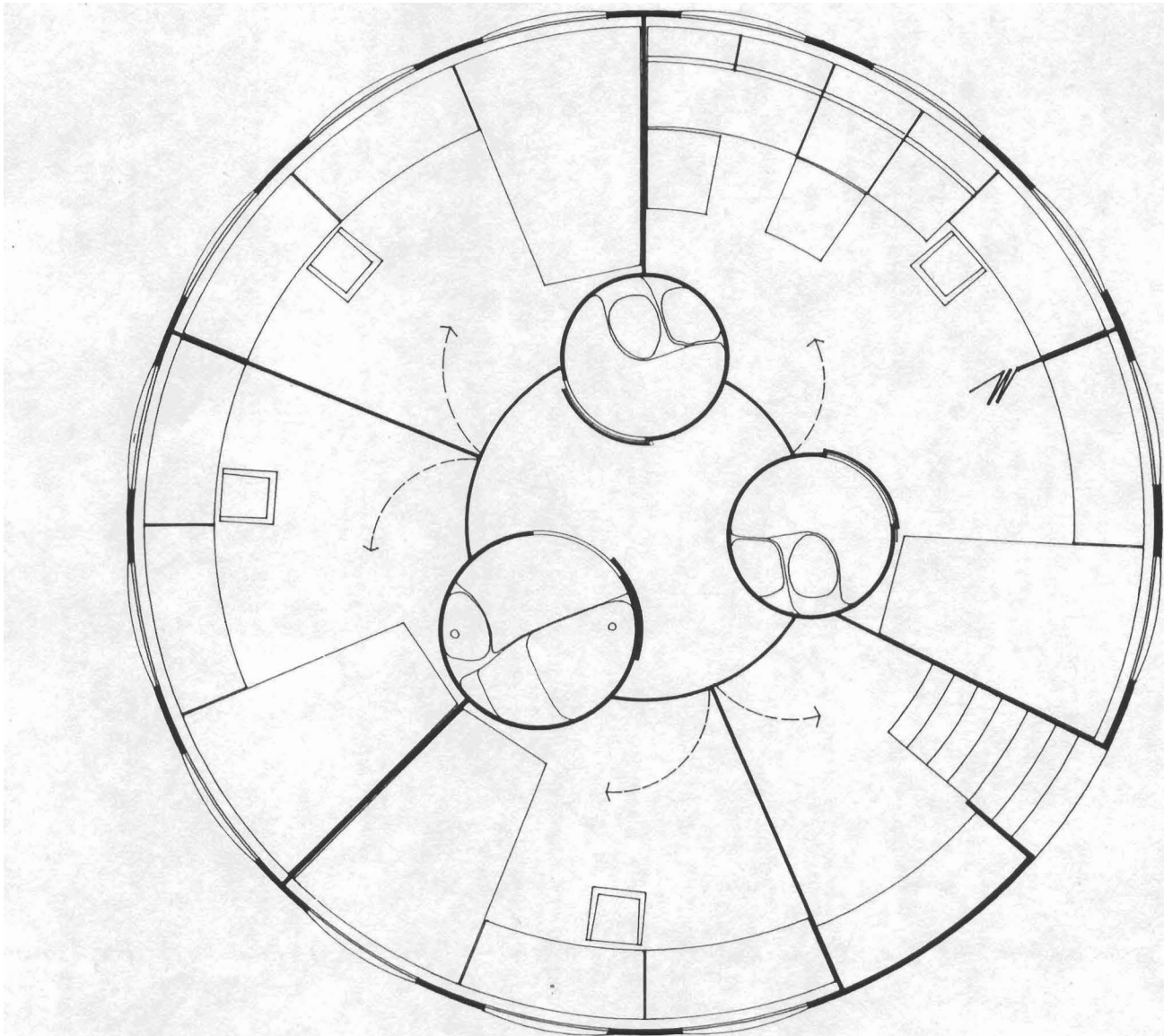
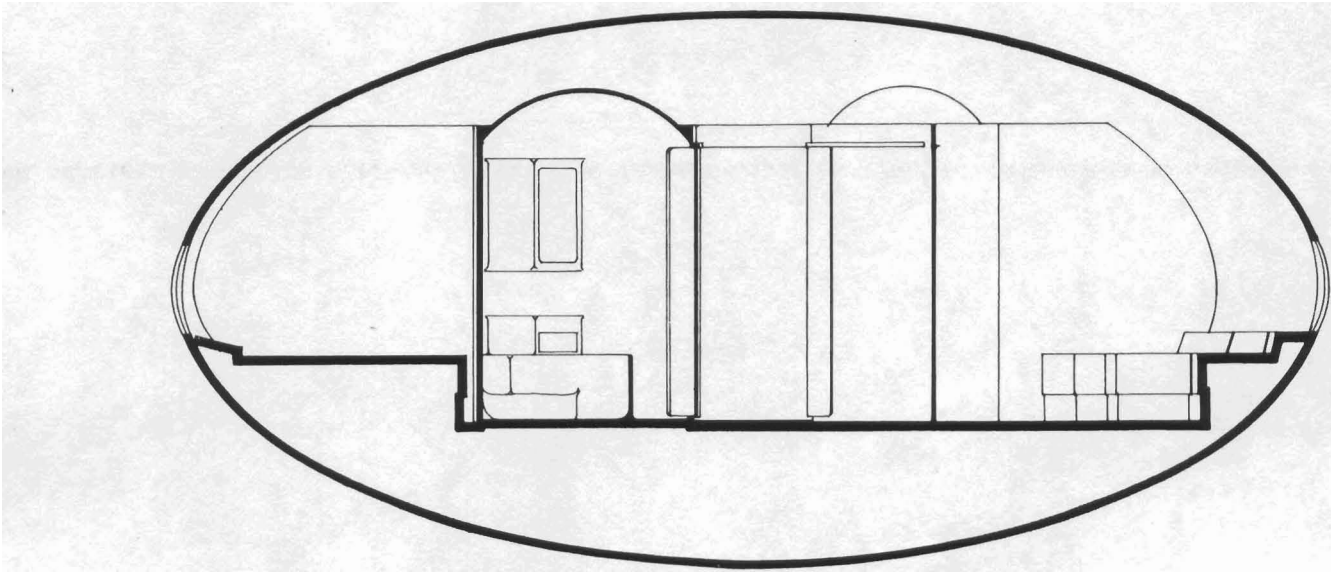


FUTURO CLASS ROOM UNIT

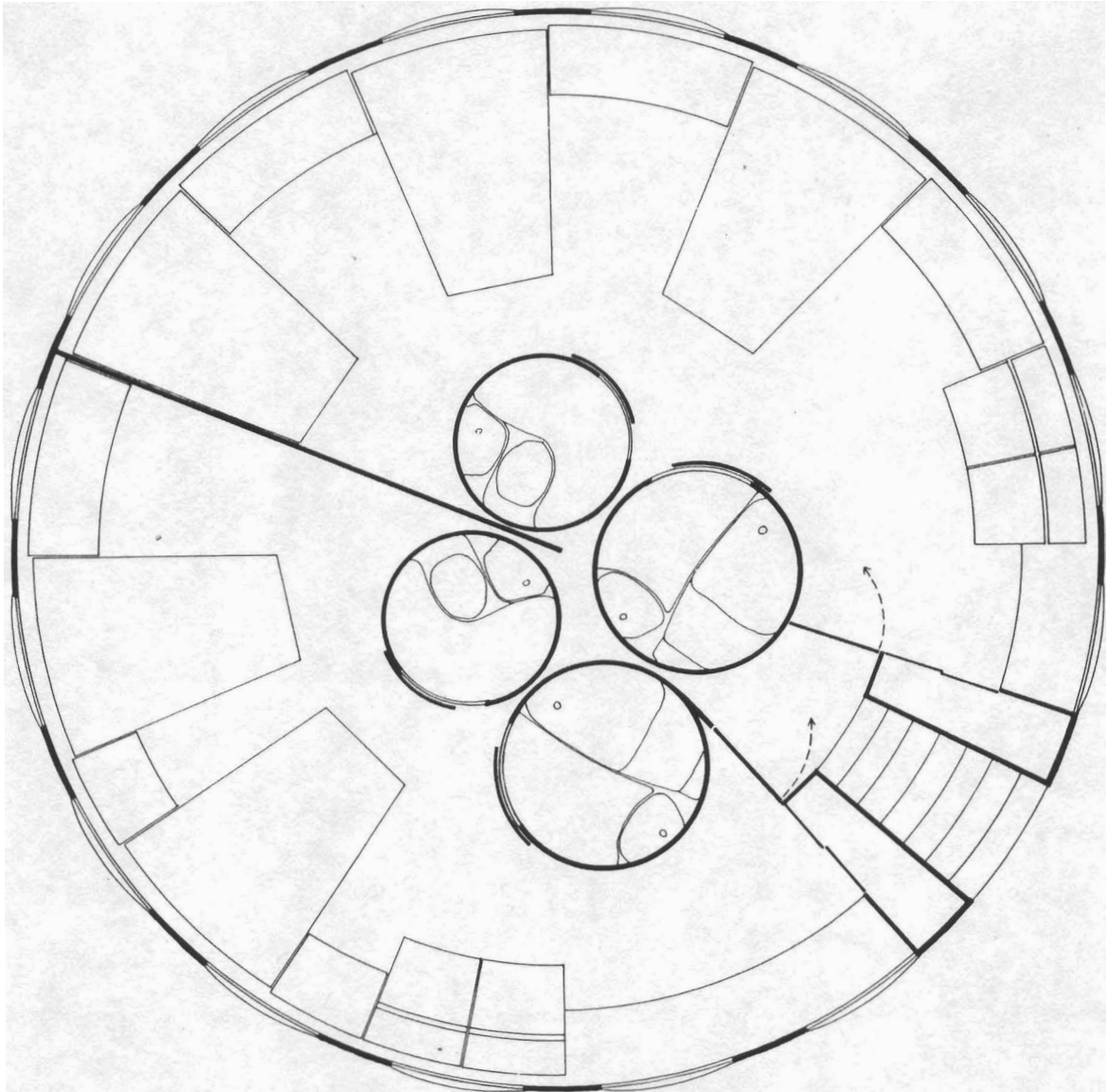
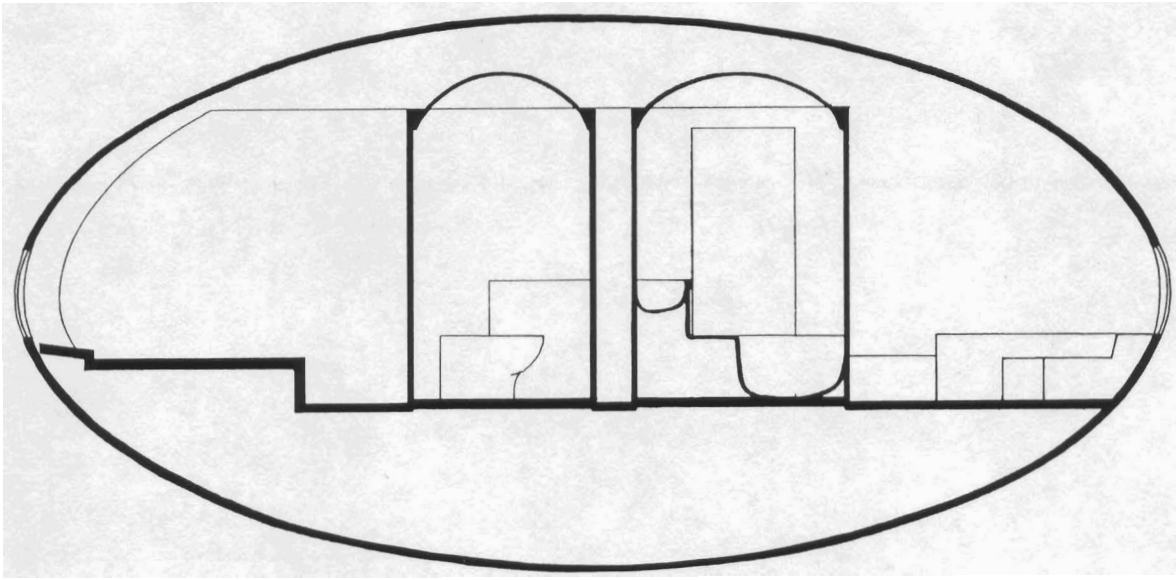
Designed for emergent trend towards Open Plan Educational Methods. Folded partitions at centre provide mini-theatre or media-resource facility.



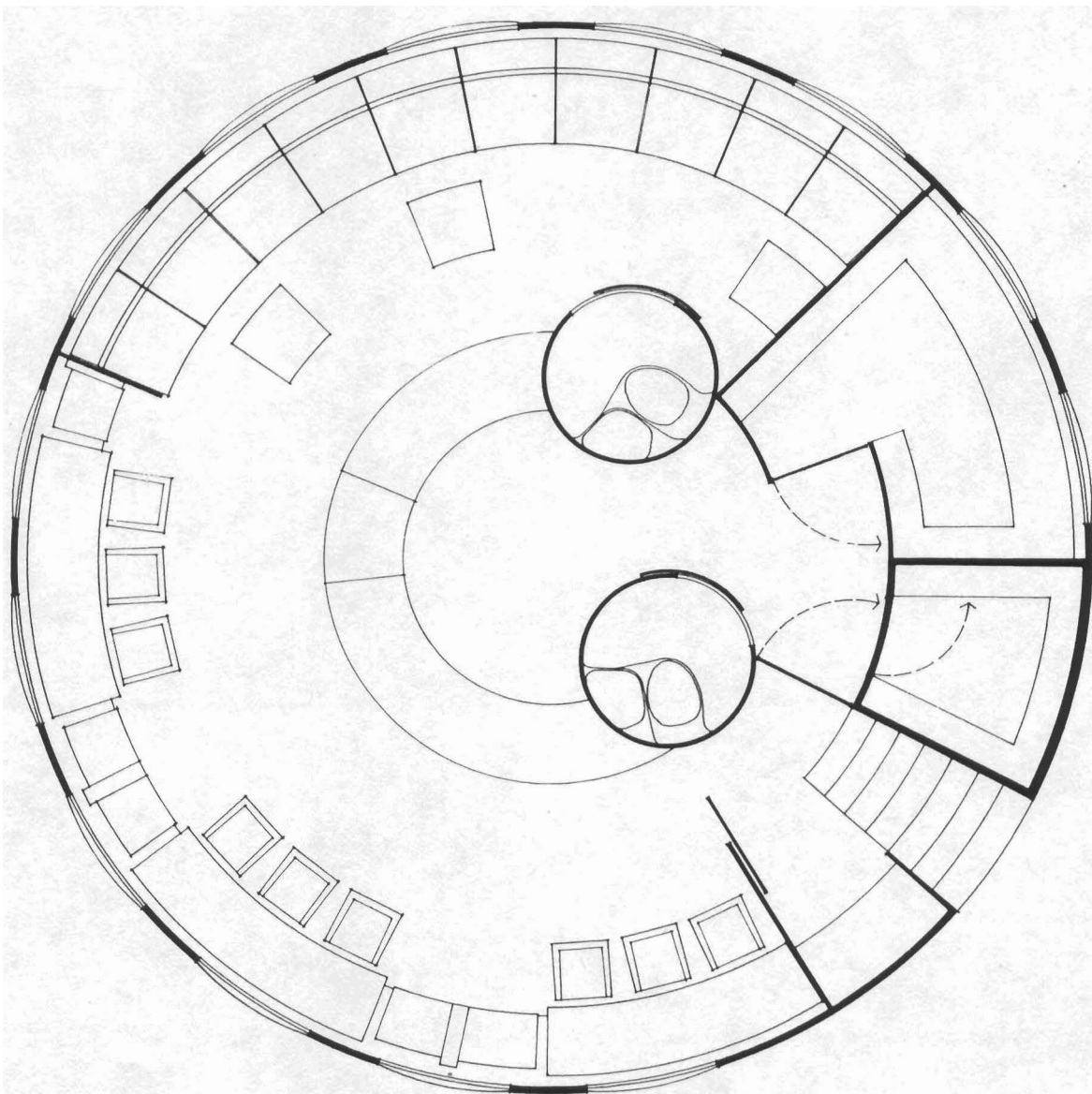
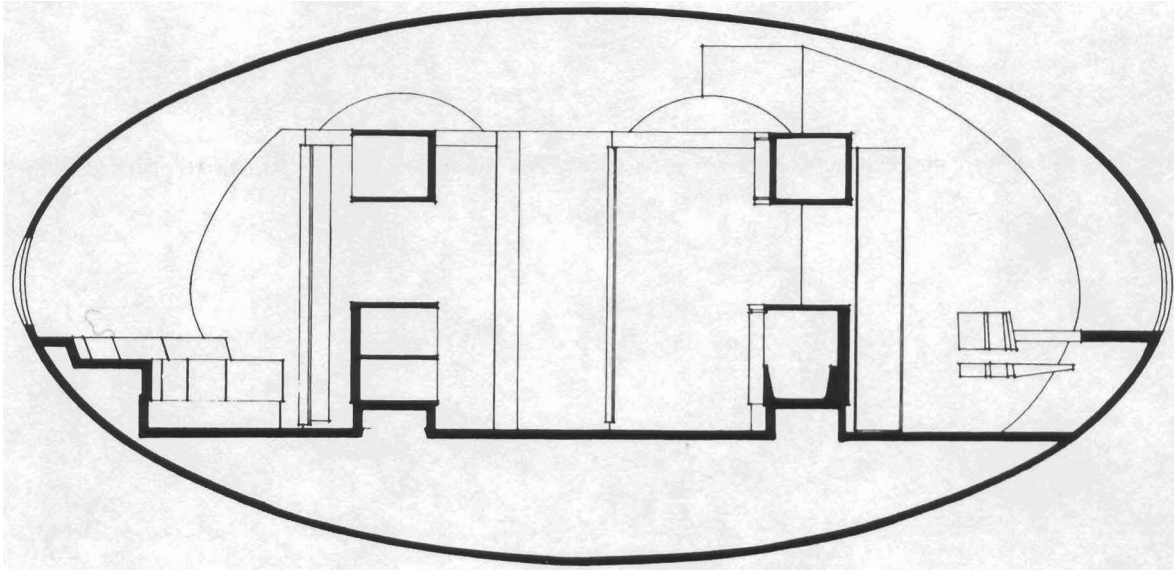
FUTURO MEDICAL UNIT Designed to serve as Mini Medicare Centre. However, Linked Futuro Units (see Futuro Building System layout) can provide an entire Hospital Facility. Single Futuro Medical Unit (illustration) can be easily and quickly helicoptered to serve as an Emergency Medical Unit.



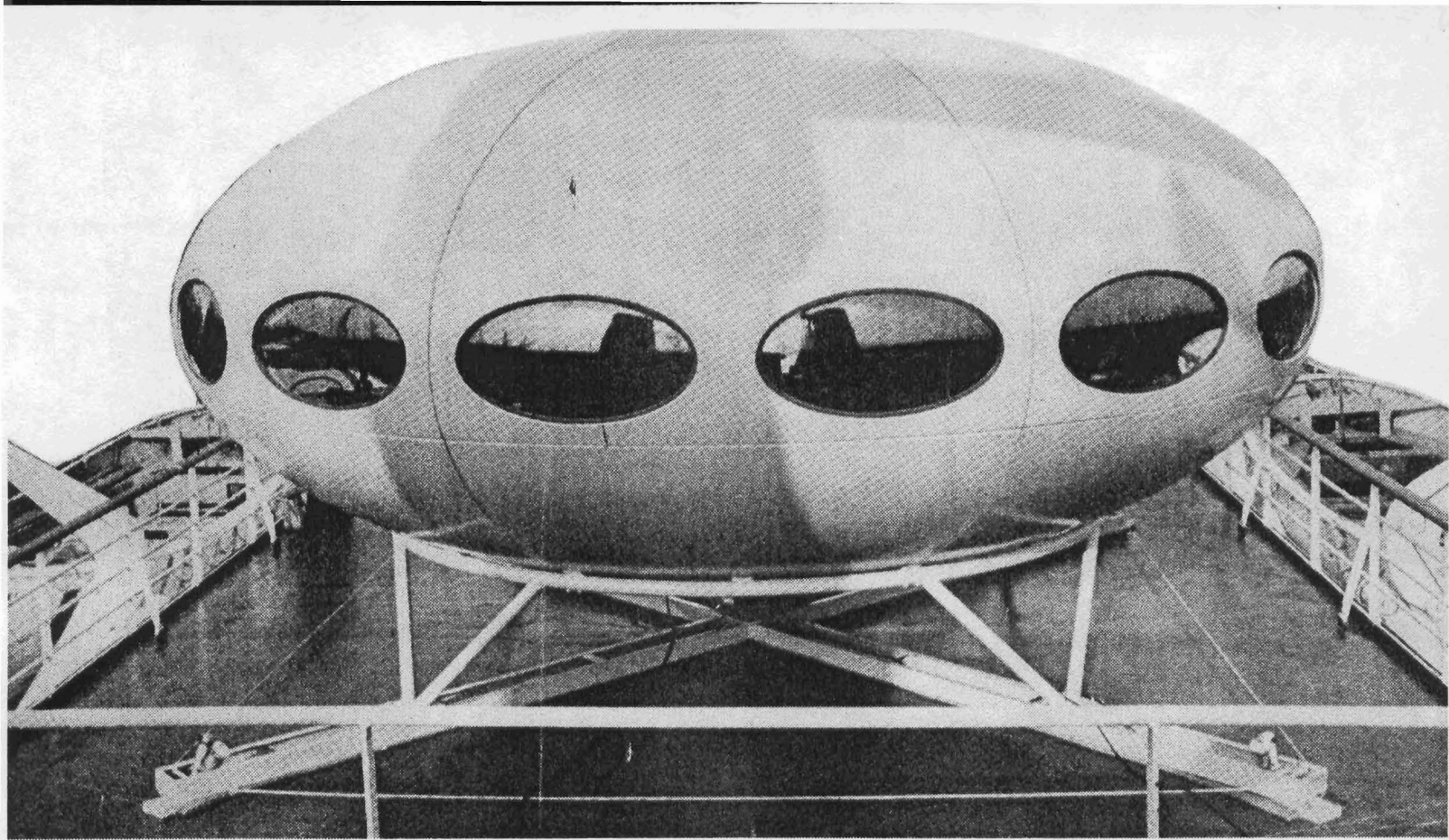
FUTURO DORMITORY UNIT Designed for Natural Resource Development Housing, Youth Hostelry, etc. Double the sleeping provision illustrated can be obtained by adding another bed to each room; with even higher densities obtainable by locating hygiene facilities in separate "public" Futuro units.



FUTURO MOTEL UNIT Budget Motel, containing two suites, with the banquettes in each suite convertible into additional beds.



FUTURO RESTAURANT/SOCIAL UNIT Can be used in conjunction with Futuro Dormitory, School and other Futuro units. Or can be located within Futuro Building Systems.

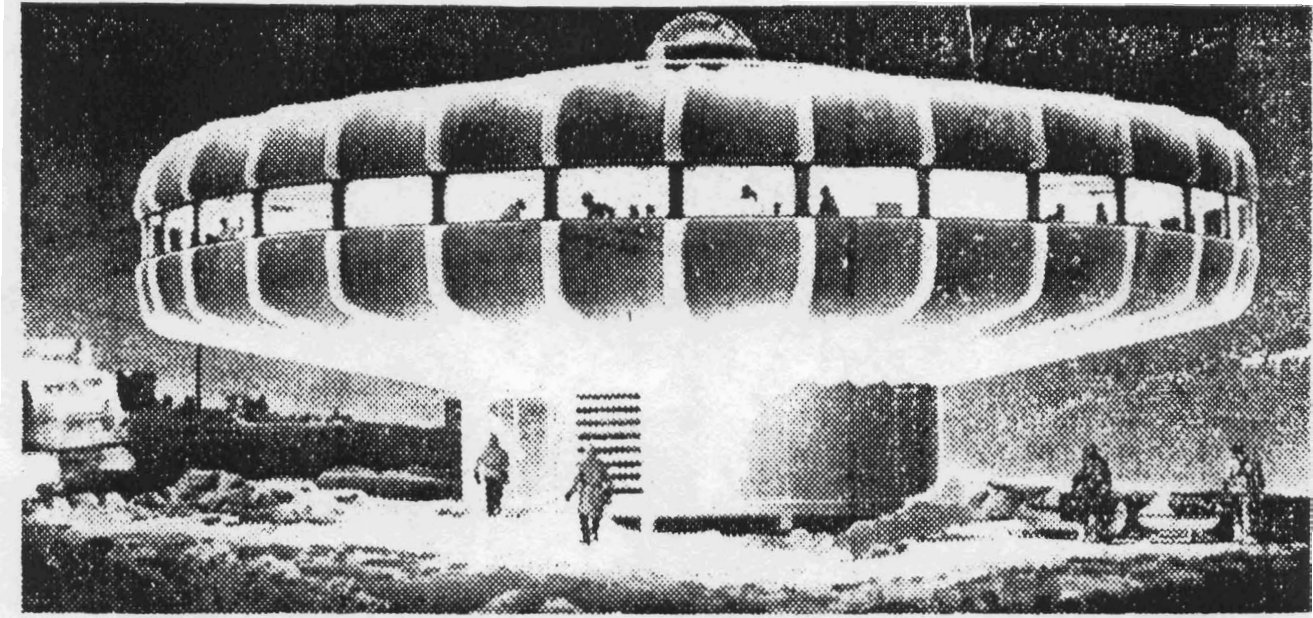


THE FUTURO FIBREGLASS HOUSE

THE IDEAL BUILDING FOR THE ARCTIC AND OTHER NORTHERN AND FRONTIER AREAS.

Either by itself, or incorporated within Futuro Building Systems, substantial documentation exists with respect to the superiority both of the Futuro structural configuration as well as of the properties of the Futuro construction material (i.e., fibreglass and foam) to serve the Arctic and other northern and frontier areas where there is an urgent and continuous demand to provide **suitable** housing for construction workers in energy related developments.

As the considerable range of Architecturally designed, flexible Futuro interiors reveal, Futuro is easily able to make the transition from Dormitory Building Systems for housing construction personnel to pleasingly habitational Primary Houses for the formation of permanent new townsites.



CANADIAN DESIGN FOR THE ARCTIC

This Futuro-inspired, one-of-a-kind, \$450,000 building for an Arctic school/housing complex and also for a scientific laboratory won the top Canadian Architect Design Award for Montreal Architects Papineau, Gerin-Lajoie, Leblanc/Edwards. Like Futuro, it is a fiberglass/foam structure, the components of which will be fabricated in the south and assembled on site.

This design confirms both the aesthetic excellence of Futuro as well as its eminent structural suitability for the Arctic and other northern areas.