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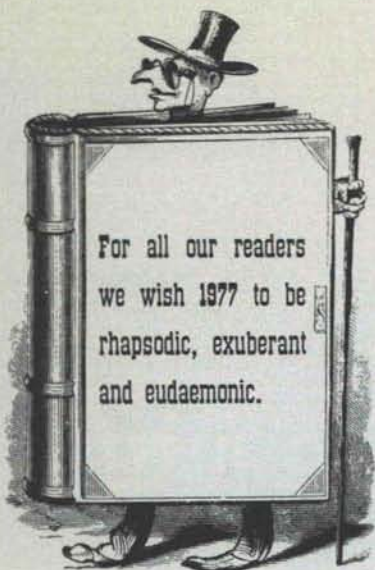
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vol. 19 no 1.

IN THIS ISSUE:

are reported the recipients of the 1976 New Mexico Arts Commission Awards which are administered by the New Mexico Society of Architects. These annual awards were begun in 1969 and are announced at the annual awards banquet of the Society.

The Society is honored to present these awards. The New Mexico Arts Commission makes them possible. It is a partnership between concerned organizations. The design professions must preserve the past and also must create for the future. These awards recognize outstanding achievements towards these two goals.

□ □ □ □

NEW MEXICO ARCHITECTURE begins a new year. With that new year we, the "staff," want to know how this magazine can better serve its readers. We would be pleased to receive your comments and suggestions. We do want you to read the magazine. How can we do it better? You tell us. —JPC

nma

jan-feb 1977 • new mexico architecture

the 1976 New Mexico Arts Commission Awards

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—Charles E. Nolan, Jr., A.I.A., Architect

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(Cover — International Space Hall of Fame —
David Sullenberger — Photographer)

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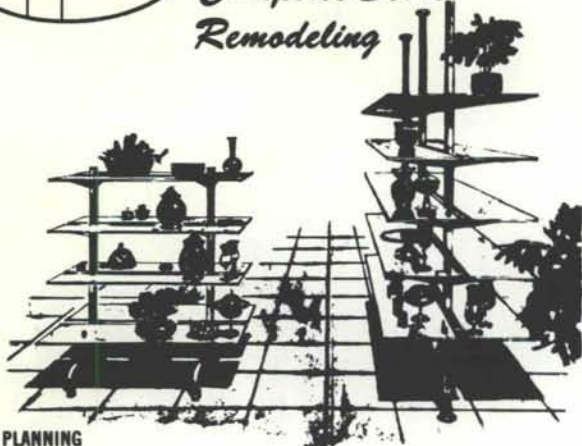
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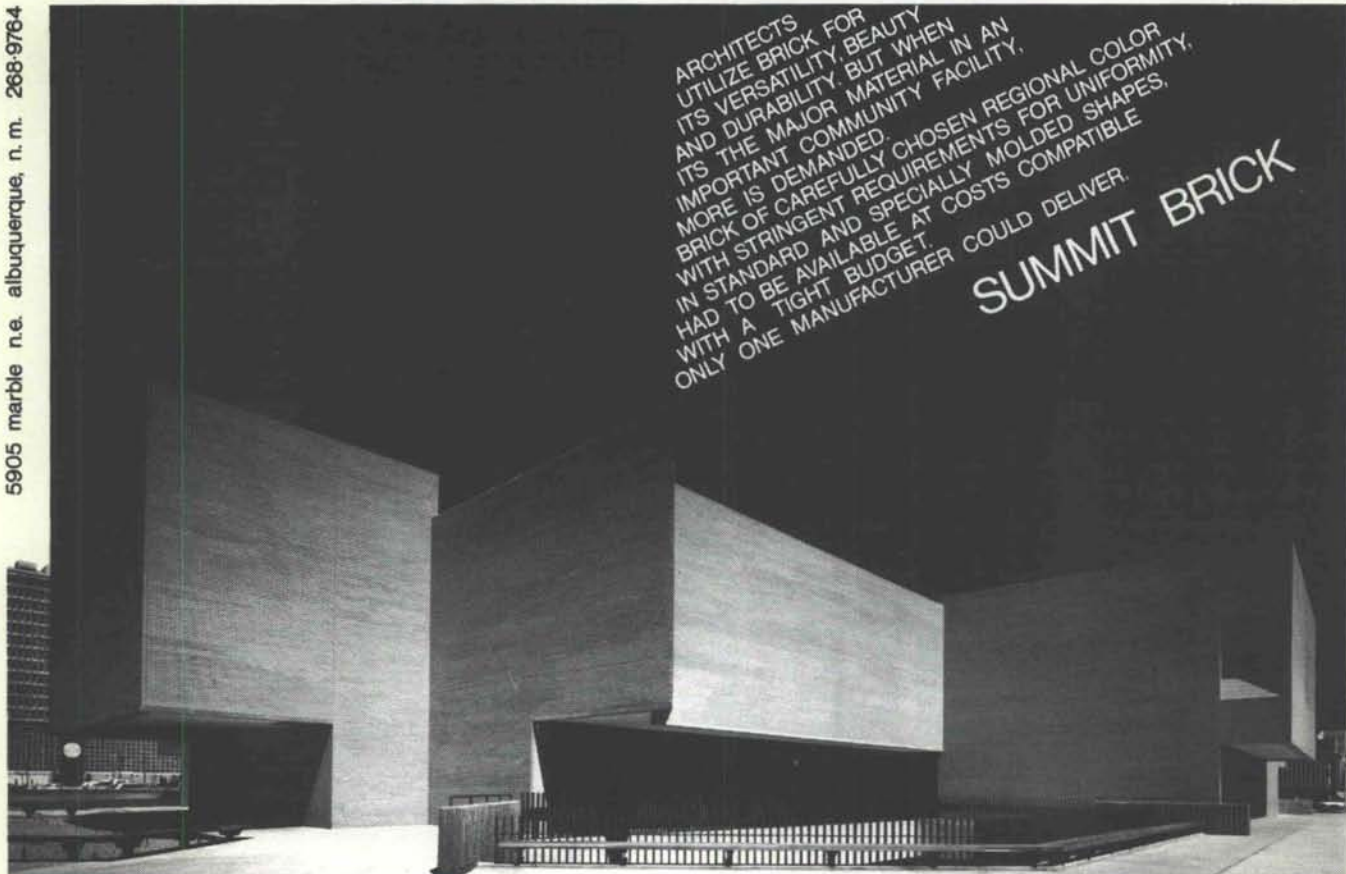
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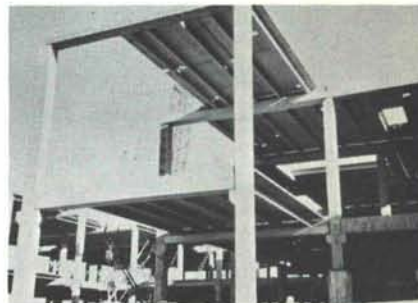
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1976 NEW MEXICO ARTS COMMISSION AWARDS

For Excellence in the field of Historic Preservation.

The Kit Carson Memorial Foundation

"for its continuing program to preserve the cultural patrimony of Northern New Mexico"

The Foundation was organized in 1949 in Taos, New Mexico. It has grown in stature and scope. In 1952 the Foundation assumed responsibility for the restoration and maintenance of the Kit Carson Home, which was designated a National Historic Landmark in 1963. By 1976, the Foundation had expanded its purposes, goals and collections. In addition to the constantly expanding Historical Research Library and Archives, three additional properties have been acquired: the Blumenschein House, the Fernando Maxwell House and the Hacienda de Don Antonio Severino Martinez, which is currently undergoing an extensive restoration.

But this is only the beginning for this energetic foundation.

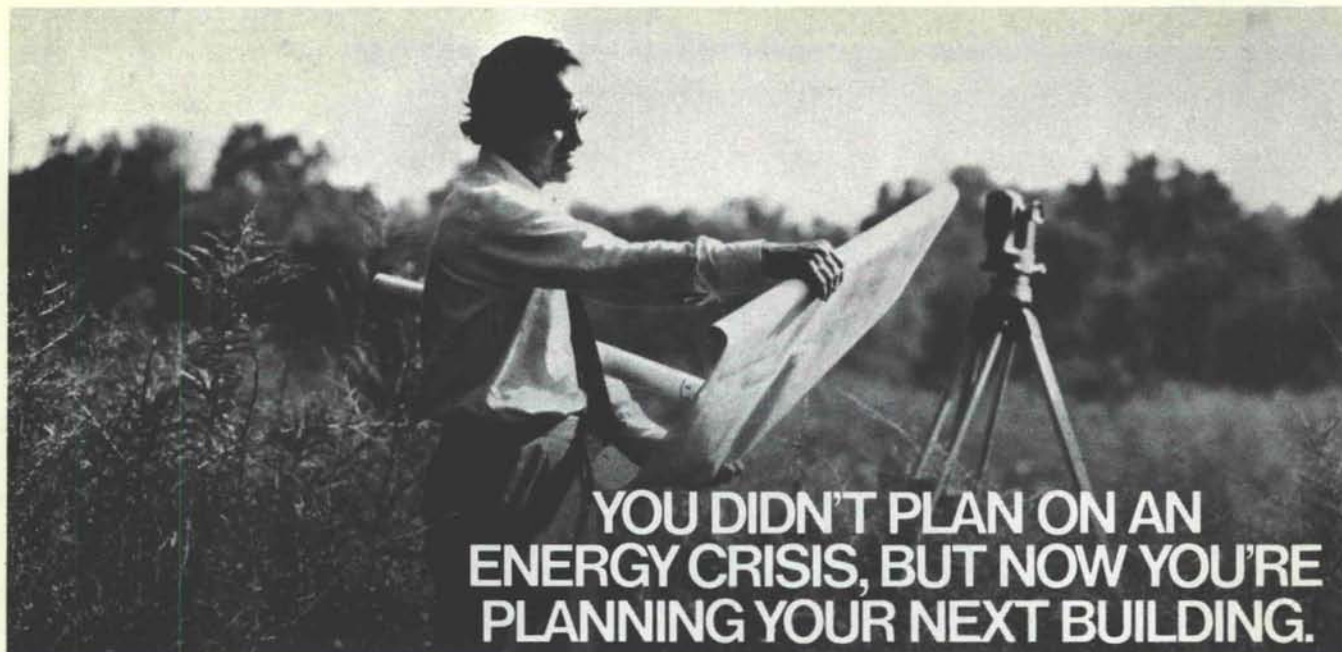


The Kit Carson House was built in 1825 by Carson as a wedding gift for his Spanish bride, Joseta Jaramillo. This was their permanent home for the next 25 years; it was their lifetime together as both died in 1868.

La Hacienda de Don Antonio Severino Martinez. This *placita* house is the best surviving example of a Spanish hacienda in the Taos area. In 1824 Don Antonio purchased the site and a three room house which he expanded to the present thirteen room house surrounding a 51 x 65 foot patio.



The March/April issue of NMA will publish the 1977 awards program rules for submission of entries in the two fields for which awards are annually presented. We hope that our readers will submit candidates for these two awards.



YOU DIDN'T PLAN ON AN ENERGY CRISIS, BUT NOW YOU'RE PLANNING YOUR NEXT BUILDING.

Which building material will you use?

You've got energy shortages to think about. Air-conditioning costs. Heat gain through the long, hot summers. Heat loss in the winter months. Heating equipment costs. The whole set of energy-use factors suddenly has become critically important. The building material you use affects all of them.

Compare the energy conserving capability of masonry, for instance, with double-plate glass walls.

At 4:00 P.M. on a hot August day in Washington, D.C., the heat gain through a square foot of west-facing insulated brick and concrete block wall will be 2.2 Btus an hour.

The heat gain through a double-plate glass wall in the same location will be 173 Btus a square foot in an hour. A big difference.

Project this differential over 10,000 square feet of wall. You come up with a heat gain through masonry of 22,000 Btuh, while the heat gain through double-plate glass is 1,730,000 Btuh.

In the case of the masonry wall, cooling equipment with a two-ton capacity can handle the heat gain. But with the double-plate glass wall, about 143 tons of cooling capacity will be needed.

An analysis of a typical 10-story building shows that over its useful life, the air-conditioning cost for a square foot of our masonry wall will be about 23 cents. For the double-plate glass wall, it will be \$7.60.

It takes a lot of money to buy, install and create space for all the extra air-conditioning equipment

required by the double-plate glass wall. A lot of money and a lot of energy to run that equipment.

Compare the heat loss in winter. It has a dramatic effect on energy consumption and building operation costs.

Our masonry wall, for example, has a "U-value" of .12. The double-plate glass wall has a "U-value" of .55. (U-values are used to determine heat loss through one square foot of wall area in Btuh per degree Fahrenheit differential across the wall.)

This means that the masonry wall is about 450% more efficient, on the average, than the glass wall in reducing heat loss.

Over the useful life of the building, the heating cost per square foot of wall area for masonry will be about 30 cents. For double-plate glass, about \$1.38.

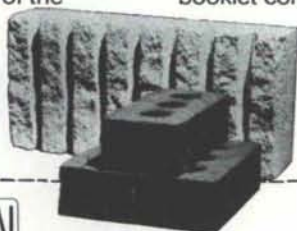
In a time of one energy crisis after another, masonry makes eminently good sense as a good citizen.

The masonry industry believes that the thermal insulating qualities of masonry are an important economic consideration to building designers, owners and investors, and all citizens.

Masonry walls save on air-conditioning and heating costs. And just as important, they are less expensive to build. The masonry wall we've described would have a 38% lower initial cost than the double-plate glass wall.

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insulating qualities of masonry walls with double-plate glass walls, metal panel walls and pre-cast concrete walls.



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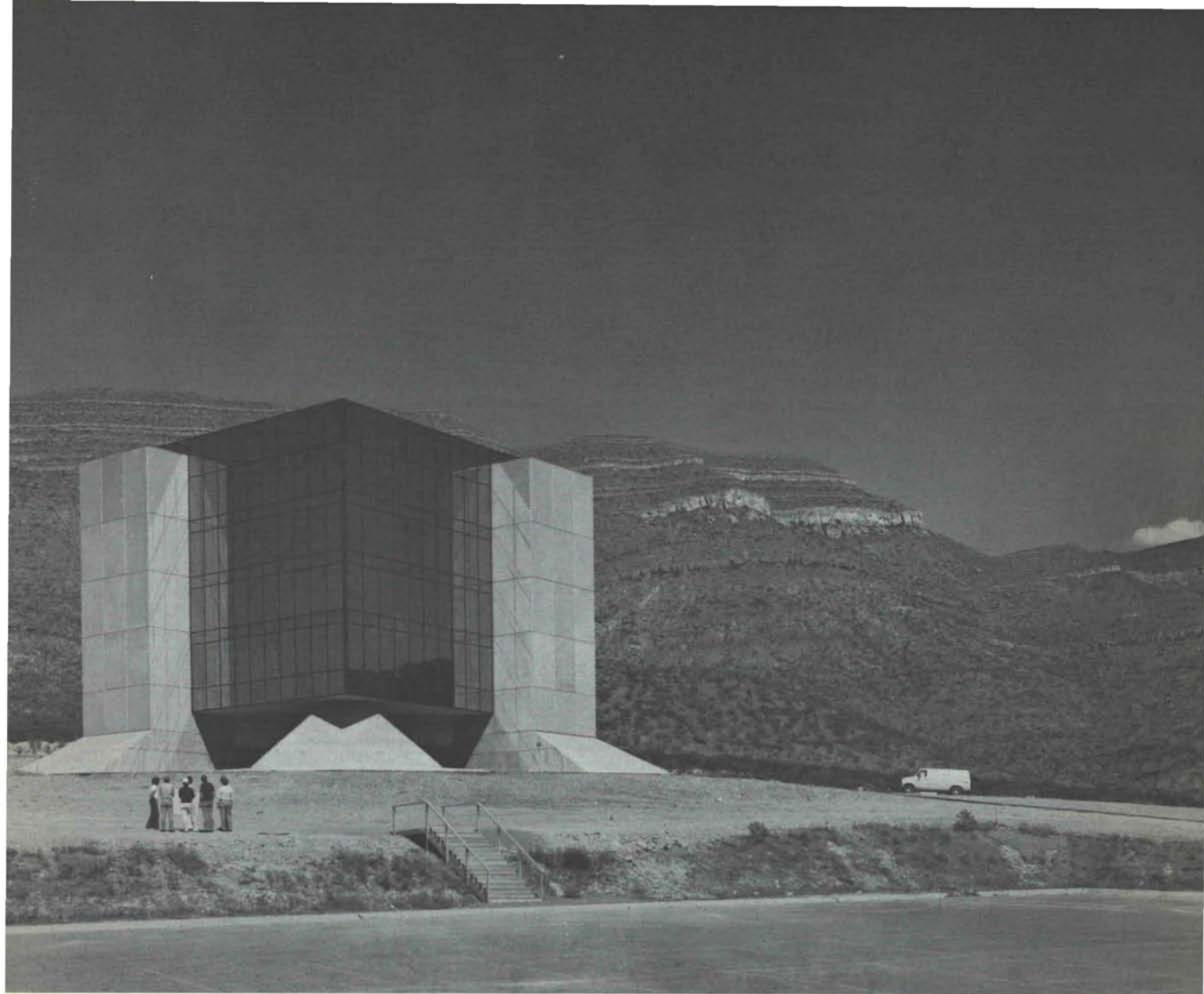
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The International Space Hall of Fame

Alamogordo New Mexico

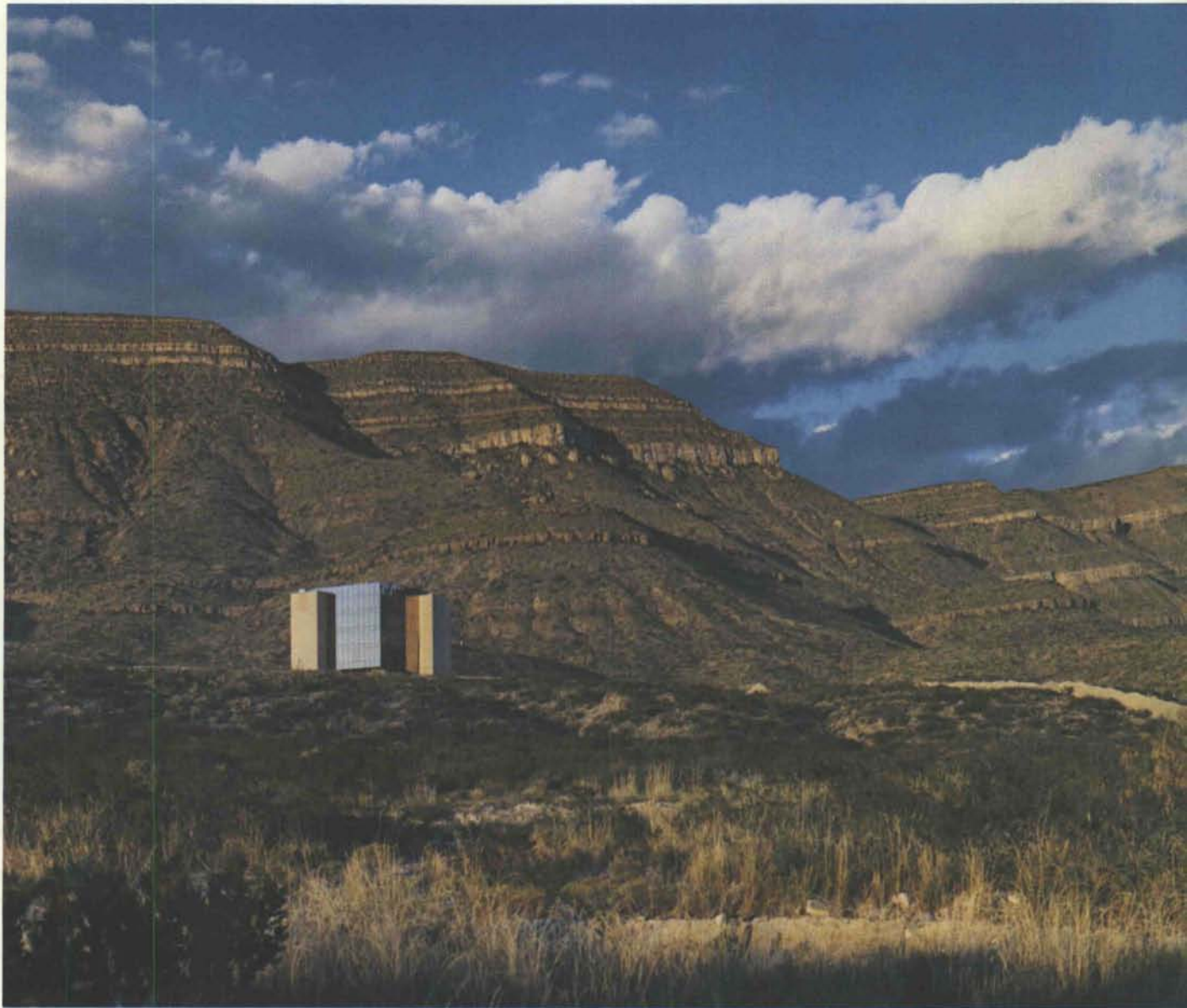
Charles E. Nolan, Jr., AIA
Architect

David Sollenberger
Photographer

The 1976 recipient of the
New Mexico Arts Commission
Award in the Field of
New Construction.

1976 NEW MEXICO ARTS COMMISSION AWARD

For Excellence in the field of New Construction.



Mr. Dwight A. Ohlinger, former mayor of Alamogordo and owner of an insurance and realty firm, conceived the idea of a Space Hall of Fame while watching a commercial for the Football Hall of Fame on July 25, 1973. He contacted several community leaders who agreed to back the promotion and establishment of the project. Requests were sent to U. S. Senators Joseph M. Montoya and Pete Domenici to stake the claim of Alamogordo to this project by reading it into the Congressional Record, which they did. A request was made to Dr. Charles Stark Drapper, president of the International Academy of Astronautics, for an endorsement by his organization. He gave his personal endorsement, and later received the endorsement of his organization and their agreement to nominate the candidates to be honored in the Hall of Fame. Bruce King, then governor of New Mexico, issued a proclamation designating Alamogordo as the site of the International Space Hall of Fame. The Alamogordo Motel Owners Association voted unanimously to petition the Alamogordo City Council to turn over \$20,000 per year of the lodgers tax to fund promotion and advancement of the project, which the city council did.

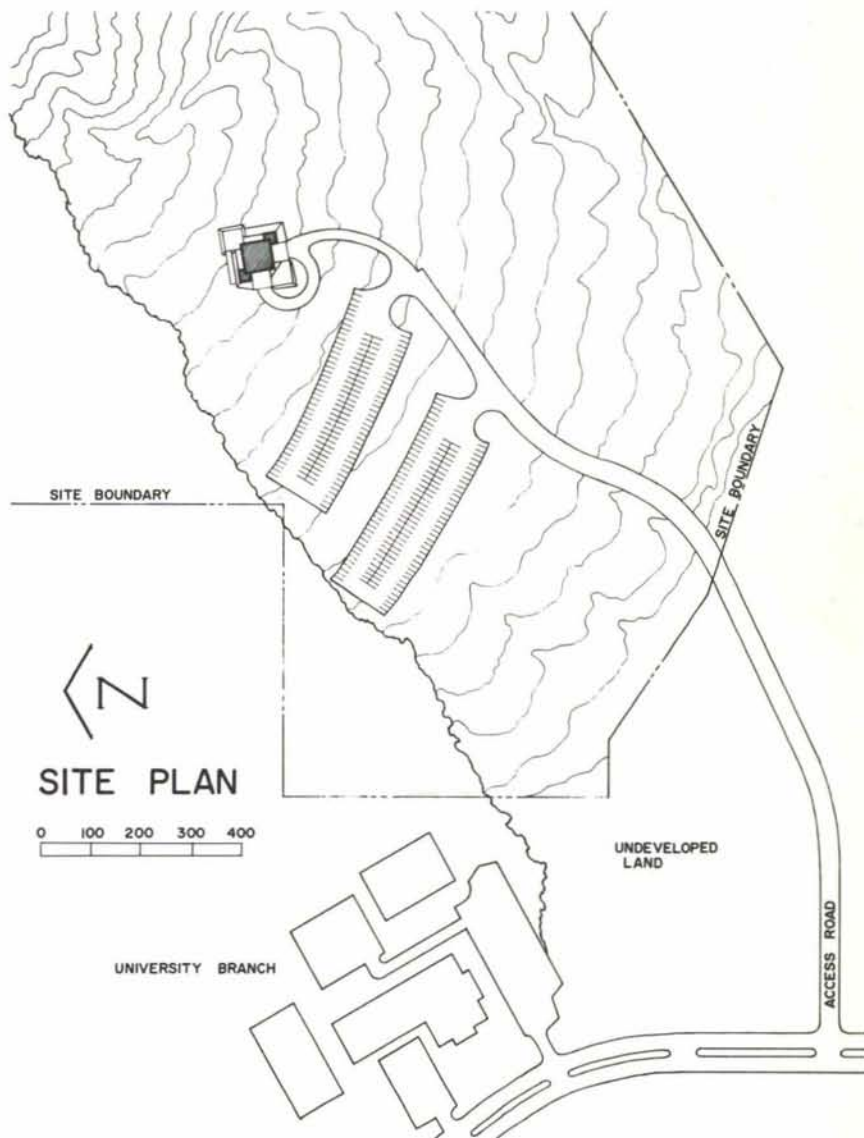
An ad hoc committee was formed to carry out the development of the project. They approached Charles E. Nolan, Jr., A.I.A., local architect, for assistance in developing preliminary concepts, cost estimates, and preparation of a promotional brochure to use in raising funds. The committee also made initial contacts with various land owners for availability of land for the project.

The project was presented to the New Mexico Legislature in January, 1974, with the recommendation of Bruce King, governor, for preliminary funding of \$1.8 million. After presentations by the architects and community leaders to House and Senate committees, the legislation was unanimously pass-

ed by them to the legislative houses for final consideration. Letters were received, meanwhile, from Dr. Charles Stark Drapper, Werner von Braun, and Neil Armstrong committing their support for creation of this significant project. The House and Senate passed the legislation unanimously and the bill was signed into law just nine months after the initial idea by Dwight Ohlinger.

The governor appointed the initial members of the International Space Hall of Fame and in July, 1974, presided personally over the first meeting. Mr. Ohlinger was named co-chairman with the governor of the commission.

The commission retained Charles E. Nolan, Jr. & Associates as the project architects. The preliminary designs and concepts were refined for the Hall of Fame building and presented to the commission for approval in September, 1974. After a cost revision, approval was given for the construction documents to proceed in October, 1974. Construction documents were completed in April, 1975, submitted for reviews by state agencies and the commission, and bids were taken on May 13, 1975. Frank Tatsch, general contractor, from Silver City, N. M. was awarded the contract with a low bid of \$1,346,900 for the 28,111 square foot build-



ing. Mr. Tatsch has established a good reputation as a quality contractor in the southern New Mexico area.

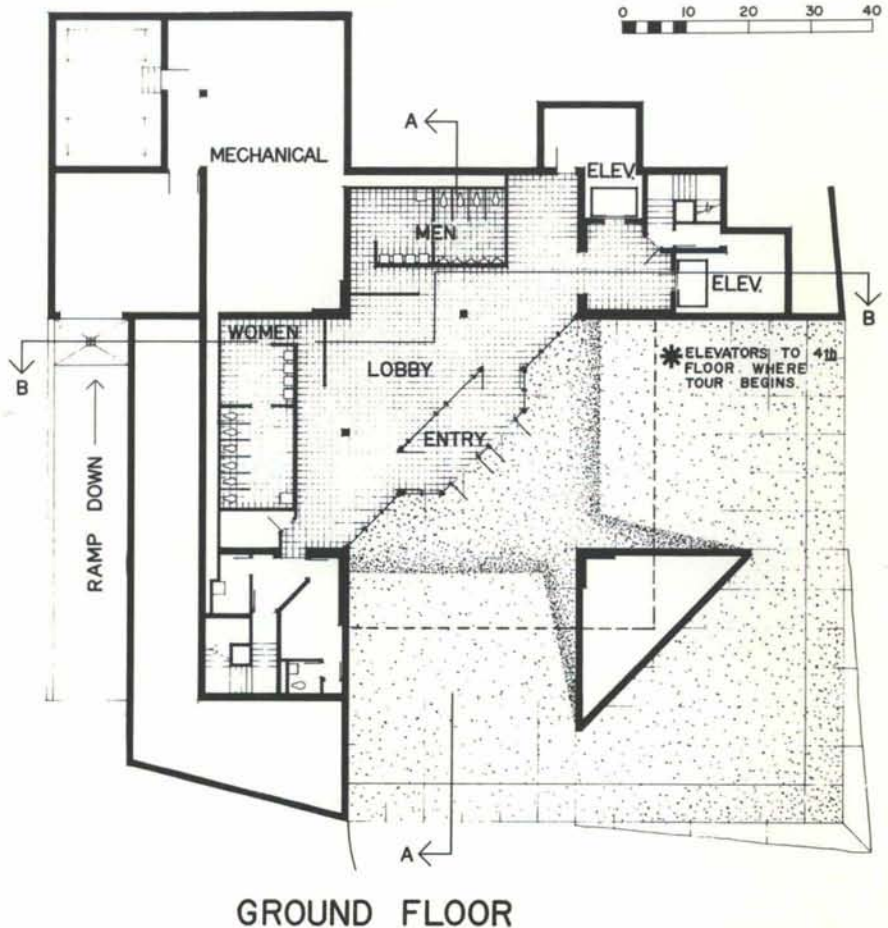
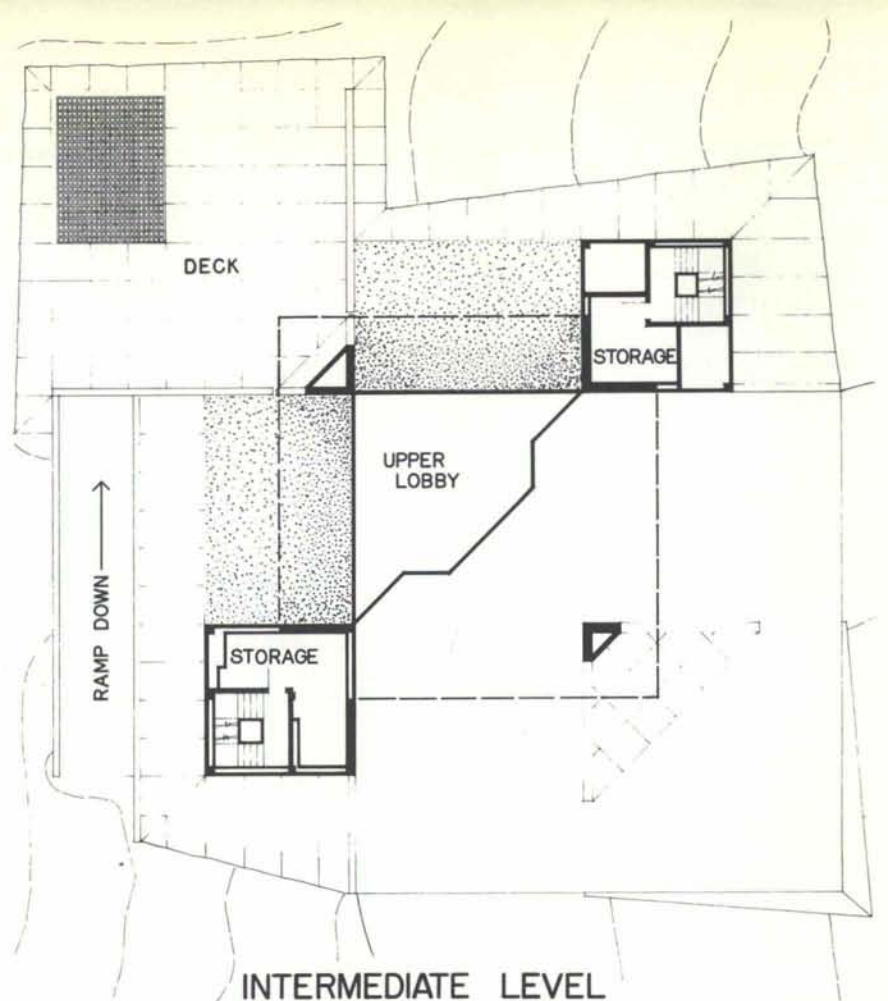
The Program

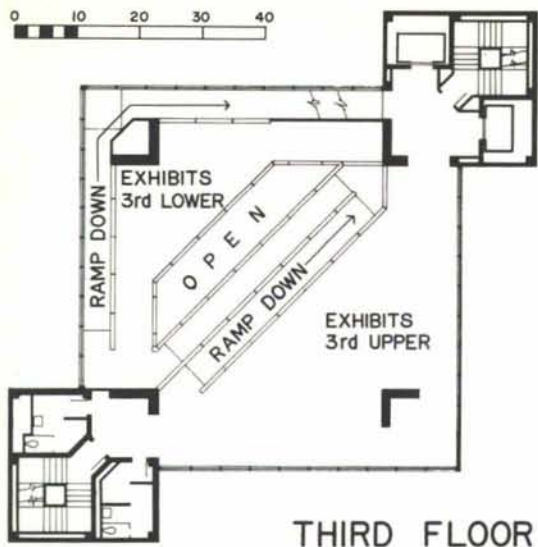
As there are few Space Halls of Fame around for development of program information and background, the architects were faced with the requirement of totally researching the concept and preparing a program which would have to remain flexible to allow for future space achievements, which would have impact on those being honored and on the display and housing of space artifacts.

A visit was made by Charles Nolan and Kent Roberts, member of the ad hoc committee, to Huntsville, Alabama, to view and examine the Alabama Space Museum and NASA Visitor Center. This excellent museum pioneered several methods and variations for display of space items. One major concept was the use of dynamic and static displays. Visitors liked the dynamic displays which allowed them to operate small experiments and games which demonstrated space and physics principles. It was decided at this time to separate exhibits of this type from the Hall of Fame honorees in order to retain the honor and dignity of those being enshrined. Also, it would allow the exhibits to be developed with greater variety for maximum visitor interest. A prime requirement of the ad hoc committee at this time was for the project to be financially self-sustaining if possible, like the Alabama Museum.

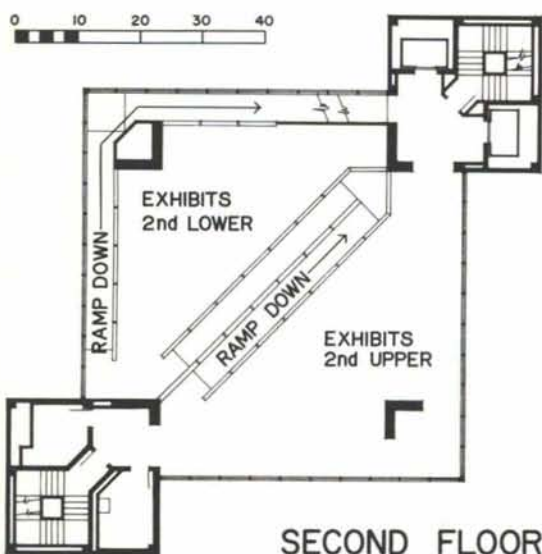
NASA and the Smithsonian Institute, as the repository of space artifacts, has a wealth of movie film taken in space and it was decided to include an auditorium which could be divided into four small theaters for continuous showing of a variety of space films.

A planetarium was requested to be included by the Space Hall of Fame Commission, in order to provide educational opportunities for learning more of space accomplishments in relation to all of our solar system and near space.

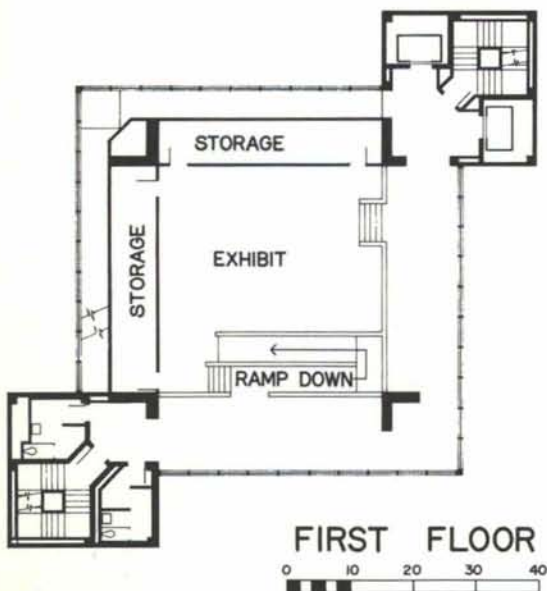




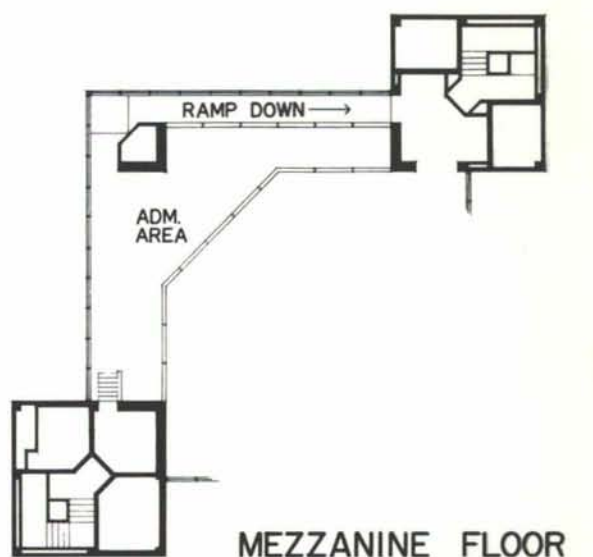
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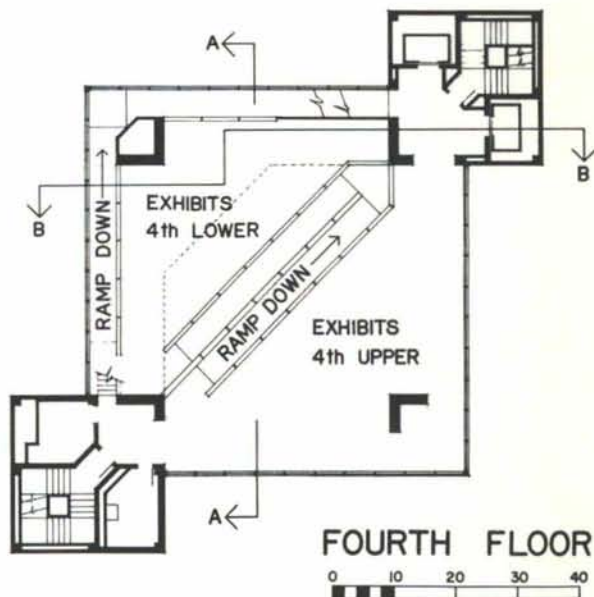
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FIRST FLOOR



MEZZANINE FLOOR



FOURTH FLOOR

As the selection of artifacts for display would be made in the future and as the artifact displays would be ever changing with future space achievements, flexibility became the major design concept requirement. All spaces in the main exhibit building were to be able to accommodate a variety of sizes and types of items. An interplay of static and dynamic displays would be required for maximum interest and to subdivide the larger spaces into smaller spaces with better relation to human size viewers.

The major thrust of the exhibits within the facility is on man, his theories and discoveries which led to space exploration, and his

achievements in space. With man the major focus, the goal will be for spaces and exhibits which relate to the viewers of these displays in this facility.

The Design

The first problem of such a project was to select a site that would provide access to visitors and be of some prominence. The city of Alamogordo is located at the base of the west side of the Sacramento Mountains in south central New Mexico. The mountains rise about 5,000 feet above the valley floor and provide a dramatic backdrop for the city. The decision was made to locate as high on the foothills as possible. A site was selected above the Alamogordo branch of New Mexico State University, northeast of the city and higher than any other building in the city. This site is on a planned major arterial which will allow adequate

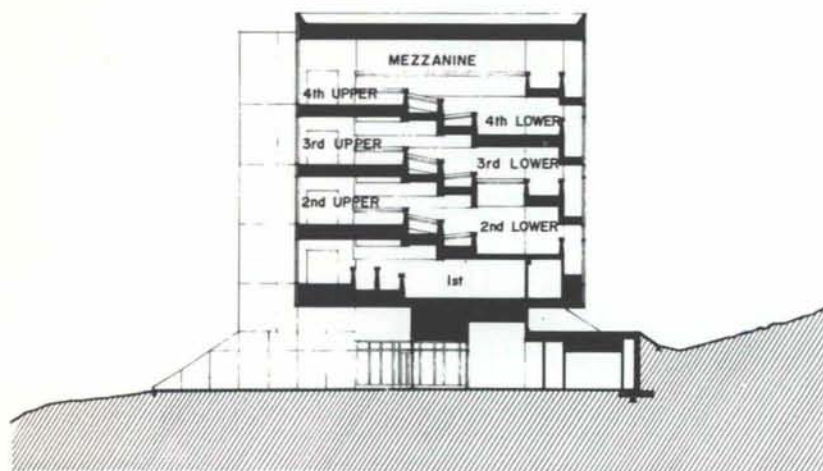
traffic access. It also poses a few problems. The foothills are full of arroyos which carry the heavy mountain rainfall in the summer-time, but otherwise remain dry most of the year. There were no city utility services at the site. This meant negotiating with the city for extension of these services. Also the site has a slope of from 5% to 10% which is covered with sagebrush and low desert brush growth. The site was also discovered to be the home of a sizeable colony of rattlesnakes when construction began.

A major consideration in designing the visitor traffic flow through the Hall of Fame cube was the high altitude of Alamogordo. At 4,300 feet elevation, visitors coming from locations lower in elevation suffer from a lack of oxygen when climbing stairs or walking long distances. It was determined

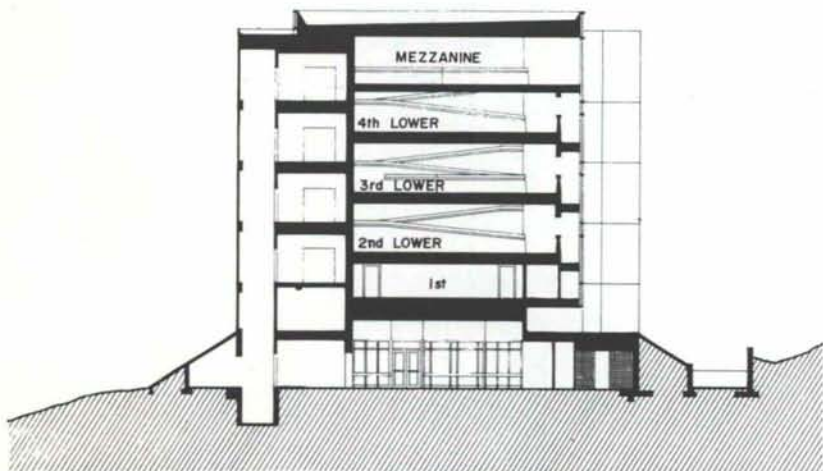
that the flow of traffic through the project would be from the top floor down and would have to be by ramps as the budget was too limited to permit the inclusion of escalators. The ramps are located on the diagonal of the cube and along two faces of the cube leaving two other faces free for exhibits. The triangular halves of floors created by the ramps on the diagonal were offset vertically to aid in reducing the length of ramp required from each floor to the next. Also this provided for elevated viewing of certain artifacts of a dramatic nature.

The design was approached from the idea of creating a visual attraction that would contrast with the mountain backdrop. There is little in space that does not create a contrast when man enters that environment, thus there was a basis for this project to be a contrast with its surroundings.

Early in discussions, the concept of using a sphere for the Hall of Fame was considered but discarded for reasons of technical difficulties. The concept then changed to the possibility of using a cube which could have a gold glass exterior as being a suitable form for the Hall of Fame. In the original design the cube was placed on one point to create an impression of space, both interior and exterior. Discussions with glass and curtain wall manufacturers revealed this bordered on technology pioneering as there would be sloped surfaces on all cube faces with the bottom sloped surfaces being critical as to retention of glass for safety purposes. The upper surfaces also became airfoils with strong lifting forces due to the southwest winds which prevail in the valley. The extreme cost of developing adequate curtain wall members and insistence of the glass manufacturers on wire screens to restrain the under slope glass led to the decision to place the cube in a conventional vertical/horizontal position for exhibit and ancillary buildings, a forty foot module was established as an economical spacing for pre-stressed concrete members, and



SECTION A



SECTION B

the design developed on this forty foot module. Also, this space provides the necessary large interior volumes for display of the various sizes and types of space artifacts. This module would allow the design to be stepped down the ground slope to provide additional vertical space for large artifacts.

Footing excavation presented the initial construction problem which the contractor had anticipated. Although soil boring tests in seven locations on the site indicated mostly alluvial fill and gravel, excavations for drilled cassion footings encountered very large rock formations too large for economical removal. Frank Tatsch had suspected this and was ready to assist in the change. John Fulgenzi, structural engineer consultant from Amarillo, was called to re-design the footings for the encountered conditions. The footings were redesigned using large spread footings.

Interior colors were kept toward earth tones in order to provide contrast with the bright colors used on the exhibits. C. N. Jr.



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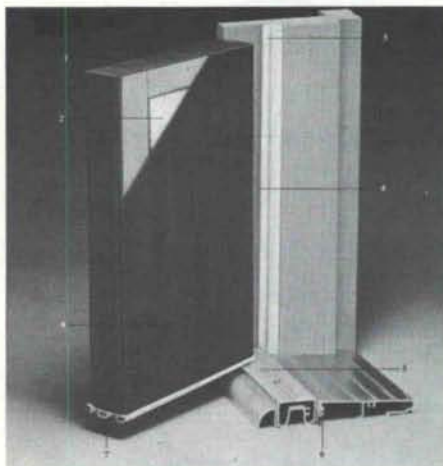


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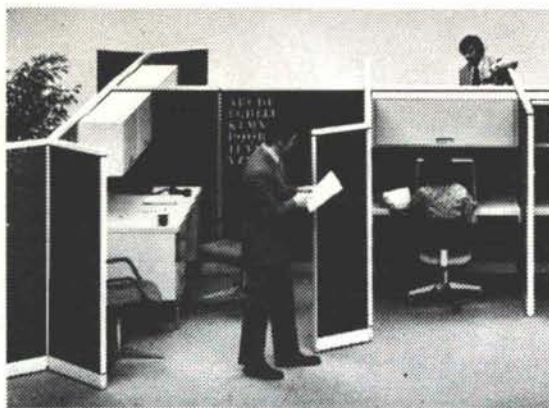
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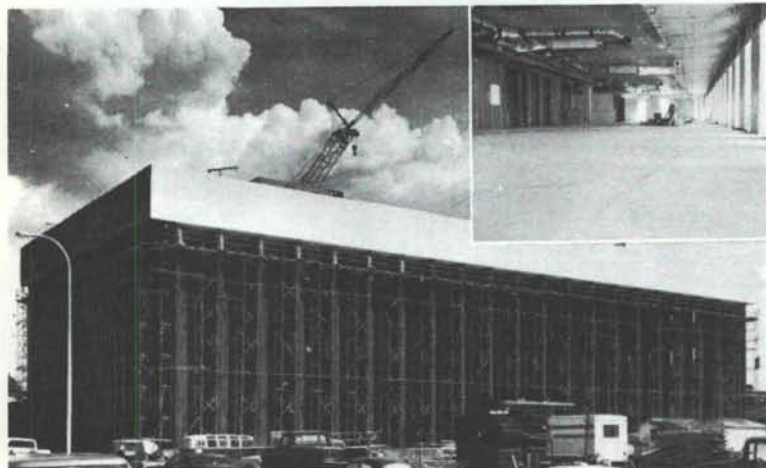
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COMPLEMENTARY

One of the many attributes of precast concrete is the way it can complement other building materials in a structure. The Felician Sisters Convent at Albuquerque, in Rio Rancho, features precast concrete panels and beams at the entry with sandblasted exposed white aggregate texture to beautifully complement the structure's other materials and texture.

The panels were both structural and architectural in function.

ARCHITECT - Flatow-Moore-Bryan & Associates, A.I.A.
CONTRACTOR - Lembke Construction Co., Inc.



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