

South Mountain High School auditorium design employs four TDAs

More about

An idea from a glove

Continued from Page C-5

Mountain auditorium will use four of the TDAs and a thin shell concrete roof, another area of design interest to Rossman.

Auditorium Research, Inc., the affiliate firm, shares Rossman's staff of 15. Both firms have offices at 4601 E. McDowell.

Rossman's design theory is to get the problem to be solved down to simplest components and then work toward a solution.

As example of the use of this theory is the ultra compact airport terminal developed by Rossman as an alternative to conventional design. wingspans. Rossman decided it would be more efficient if the wings could be overlapped.

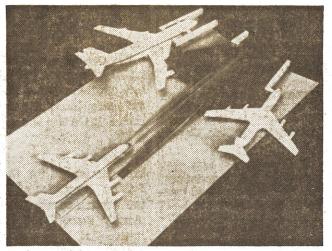
To accomplish this overlap, Rossman used an inclined plane, pulleys and winches.

In the UCAT system, the airplane is parked on a platform which is then winched up the inclined plane.

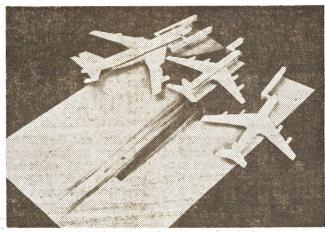
As a result, a UCAT airport with 44 passenger gates would handle up to 30 million passengers a year on about half the space of a conventional airport.

Another area of interest to Rossman is steel building construction.

"One of the compelling reasons for steel construction is cost," Rossman



Plane in position on lifting platform



Planes in final position with wings overlapped

State basic text is published

The first permanent Arizona Real Estate Primer and Beference Manual published by the Real Estate Department is now available.

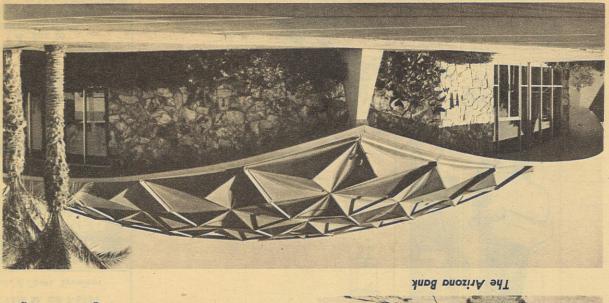
J. Fred Talley, Real Estate Commissioner, said the primer is intended as a basic text in real estate and will be sold for \$5 in a loose-leaf form.

department, 2801 N. 15th Avenue.

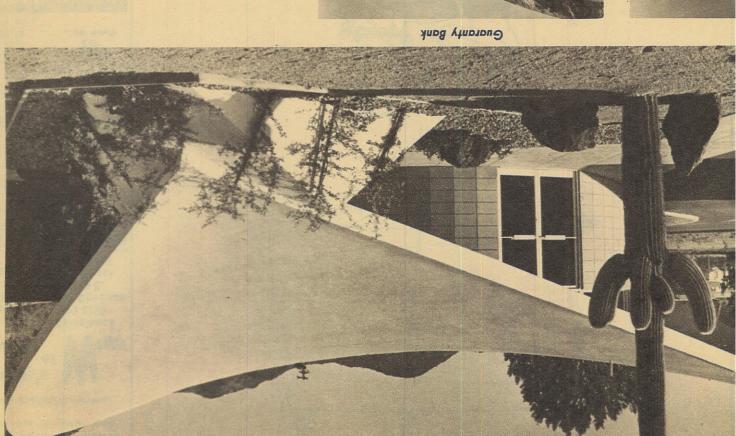


DORM DINING HALL—This unusual circular dining hall is to serve the seven-story women's dormitory building in the background at Arizona State University. Its six-inch concrete dome is 100 feet in diameter without any supporting pillars on the interior. On its outer rim a series of "post-stress" steel cables are imbedded in the

concrete, which will serve to prevent the roof from any tendency to sag. The \$1,365,000 dormitory was designed by Cartmell and Rossman, architects, and is being erected by Manhattan-Dickmann Construction Co. Palo Verde Hall will house 410 women students and is to be ready for occupancy in August.







Conservative? Banks

WHAT HAPPENED to the bankers?

their's-and operating from within a building Conservative, careful with your money—and

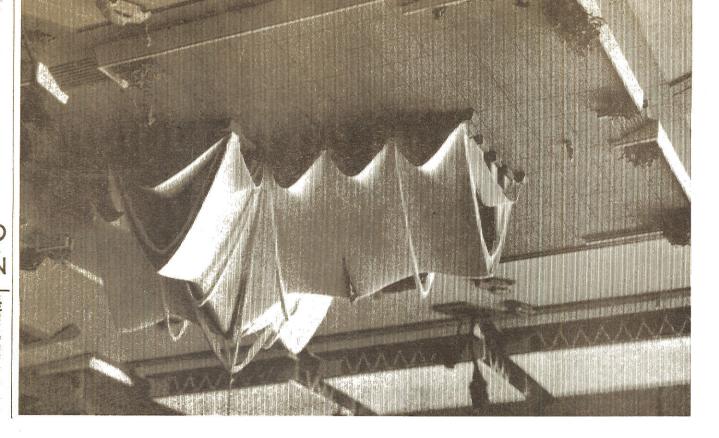
Take a squint today. Some of the most architecturally progressive buildings in the state are not drive-ins, art galleries or theaters. They are hanks that, well, looked like a bank.

Most customers find the change refreshing.

Arizona

g Toan





north of McDonald, Proposed educational build-

ings are in background.

MODEL shows striking architecture of St. Maria Goretti's sanctuary to be built on Granite Reef Rd.

Rossman also said that re-

Catholic Church have been expressed in his work.

The church pews will be cent liturgical changes in the

and the parishioners. cular fashion, for a closer proximity between the altar built around the altar, in cir-cular fashion, for a closer

odt nidiw represent a new thinking The modern sanctuary will

Rossman the Catholic church goes into the build-themselves," Rossman

that

zgui

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church here. Our Lady of Perpetual Help dale who previously attended The parish includes about 700 families in North Scottshe concluded. religiousness," awaken in people a feeling of tra - modern church would destroy anyone's religious motive. "This church should ed the possibility that an ul-Rossman said he discount-

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abandoned in favor of an ul-

Rossman said he had a remodern design that

projects religious symbolism. LLS -

amples of religious symbolism, according to Rossman, throughout the church structure The most noticeable and There will be many exhe created the model. ligious motive in mind when

external hands depicted by unique will be folded praying ture. The most noticeable and

employ the concept of using know of in the entire west to This is the only church I parabolas. arches shaped in form

Rossman said that another the parabola concept through-out the structure."

a cross atop the building. This will symbolize the length of Christ's life. height from its ground floor to tuary would be a 33 - meter unique feature of the sanc-The parish house, to be built in 1973-74, will cost \$62,cost \$62,400. educational building, 1972, will

The scale model shows that church and grounds in 1975 will cost \$65,000. \$62,400 and beautification of

tion of the second half of the

The 3,000 - square - foot building, costing \$70,000, is to be completed next June.

The sanctuary, to be completed in 1971, will cost an estimated \$237,200 and construction of the second last of the first form of the second last of the first land of the second last of the second last of the first land of the second last of the second las

and can be partitioned into four classrooms. It also can be used for social and busi-

The first phase of the educational building will provide church seating for 300 vide church seating for 300 partitional partit

1967. Services are now being conducted at Saguaro High

since its inception on July 23,

ness functions.

School.

traditional lines have been

Maria Goretti pastor or St. Fr. Lambert has served as

completed. til the proposed sanctuary is as the parish sanctuary undiocesan Chancellor, said the education building will serve Thomas J. Lambert, former Arizona Register editor and

The church pastor, the Rev.

ary in 1971 and a parish house

an educational building to be completed in 1968, a sanctu-

man, was unveiled this week.

ture parish complex, design-ed by Dr. Wendell E. Ross-

A scale model of the fu-

complex, which will be con-structed on a 10 - acre site between Granite Reef Rd, and Rose Lane at an estimat-and Rose Lane at an estimat-

Sunday for the proposed St. Maria Goretti Catholic church

Final planning will start

The complex will consist

ed cost of \$510,900.

.47-8791 ni

An idea from a glove

Dr. Wendell Rossman designs revolutionary auditorium that saves space, time and money

By KEN BACHER

If a right-hand glove is turned insideout, the result is a left-hand glove.

With that approach, a new auditorium design was developed by Auditorium Research, Inc., an affiliate of the Phoenix



architectural firm of Rossman and Partners.

A u ditoriums stand idle most of the time. Dr. Wendell Rossman set out to make them used most of the time.

He calls the result the Turable, Divisible Auditor-

Bacher ium, a multiple purpose facility that can be used most of the time.

Right side out, the main part of the glove is an 800-seat auditorium for small groups, and the fingers are four smaller meeting rooms of 200-seats each.

Inside out, the fingers are turn and join the large auditorium, creating a 1,600-seat facility for larger groups.

Mechanically, Rossman accomplishes

this transformation by putting each little room on a turntable controlled with electric motors.

The turntable rooms are band-shell shaped. Turned toward the main auditorium, the band shells face the big auditorium stage. Turned out, the bandshells face smaller, individual stages with the shell forming a wall between the smaller room and the auditorium.

Dr. Rossman said the TDA system not only increases the use of the structure, it reduces the cost compared with conventional construction.

Using the cost of a 1,600 seat auditorium as the basic cost, Rossman said, it would cost an additional 50 per cent to add four conventional 200-seat meeting rooms. With the TDA system, he said, the four rooms would cost an additional 15 to 25 per cent.

In the TDA system 800 of the seats serve two purposes and increase the use of the building.

The first TDA was built in a school in Quebec. An application of the system closer to home is under construction at South Mountain High School. The South

Continued on Page C-9

ch to be cross-shaped

out in form of a Greek cross, having four

om its foundations is an un-

1, Granite Reef Road and Rose

ottsdale.

it will house St. Maria Goretti

arms of equal length. Each arm is 54 feet wide. From the end of one arm to the opposite end is 103 feet, The narthex will be in the west, lower arm of this cross. The nave occupies the center and, with the two transept arms, gives space that will permit seating of 730 worshippers.

eve, something structurally

any religious building in the ing contract is held by Lufkin

mes from the drawing boards d Associates, architect. It repThe upper arm, opposite the narthex, will be occupied by the sanctuary with its baptismal font, pulpit, altar, lectern and the

is simple. The church is laid

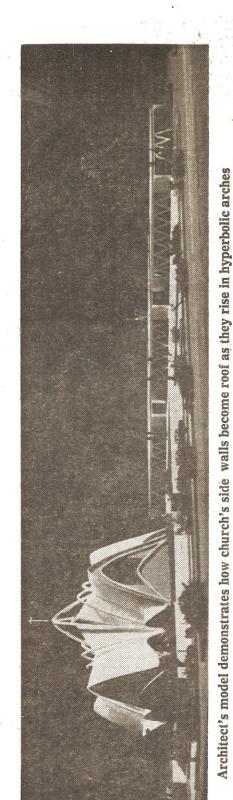
be taken up with confessionals and service dox floor plan will be four hyperbolic arches Covering this relatively simple and orthomade of a thin skin of reinforced concrete.

priest's sacristy. At one side of the narthex will be a small chapel; the other side is to

standable to the architect or engineer, but That term "hyperbolic" is perfectly under-

layman. Our best illustration is that if you curving slant upward, you would have a hymay require some further explanation to the took a sheet of paper and bent it into a steep,

(Continued on Page M-1)



ourt stays

ith Papagos nining pact

Southern Arizona Bureau

ON - Court approval of an ent between the Papago Indians eb. 29 to allow a group of protestnerican Smelting and Refining ARCO) was postponed yesterday ans to prepare their case.

who had previously set Friday as for approval of the \$2.1 million District Court Judge James A. ent and renegotiation of reservactions at a court hearing in three

", Judge Walsh told opposing ey "ought to sit down and dis-'s request for a three-month con-Il the facts to each other, put ng on the table." down Attorney James M.

way, he indicated, each side e able to obtain needed informa-

ty filed 19 objections to the)-Papago agreement on behalf of dian residents of the San Xavier time for the hearing.

Rios, vice chairman of the San District Council, on the grounds did not own a land allotment uld be affected by the ASARCO ver, Judge Walsh eliminated one. of the Papago reservation.

ir copies of the agreement were e to be read by the Indians. ere in the Bureau of Indian Afand at the U.S. Public Health bjection Murphy cited was that

City loses 3 court battles on obscenity laws

The City of Phoenix lost three times yesterday in its court battle against alfinding that a new state law is unconsti-

threw out a 1971 state law that made it rials harmful to minors within 4,000 feet a crime to sell obscene items or mate Superior Court Judge Charles of a school or park

ates two different standards for what adults and children may read. Enforcing Roush held, in effect, that the law cre-

to the guidelines set for minors, he said.

Superior Court Judge Morris Rozar made two other decisions against the

He issued a temporary order barring the city from moving to revoke the license of the Empress Theater, 2339 E. McDowell, until another hearing next

terday on the Empress Theater license City Treasurer Ralph Beall had been prepared to hold a second hearing yesuntil the judge's order came down.

On June 2, Superior Court Judge Rog-r Strand ruled a film shown at the

Empress, "Virgin Runaway," was ob-

said the theater license is held by a man time of the alleged offense, and since Anthony Ranieri, the theater's lawyer, ny Tafoya, the theater owner, at the Pacey was not the license holder then named Don Pacey. It was held by Danhe cannot be held responsible now,

He also contended that the city ordinance governing obscene films is vague, indefinite and unconstitutional.

charges against eight bookstore owners

con and Mariana Go of the Paris Theater on grounds that materials were taken He dismissed charges against Joe Bafrom them in violation of their privilege against self-incrimination.

ties before a court has ruled that an others on grounds that criminal charges cannot be filed against them for activi-

er Bard, C&J Smokeshop; Sam Janopol-Ray Rife, Owl Bookstore; Charges were dismissed agoinst Mey-

Robert J. Hertzberg,

He said he expected the city to appeal said he would continue to contest obscenity charges against some

therefore a city court trial would be un-Rozar did make one ruling for the charges. Hertzberg had maintained that the city court is an arm of the city and city. He held that the Phoenix City Court may try any defendants on proper constitutional.

REPUBLIC ARIZONA

Wednesday, Feb. 9, 1972

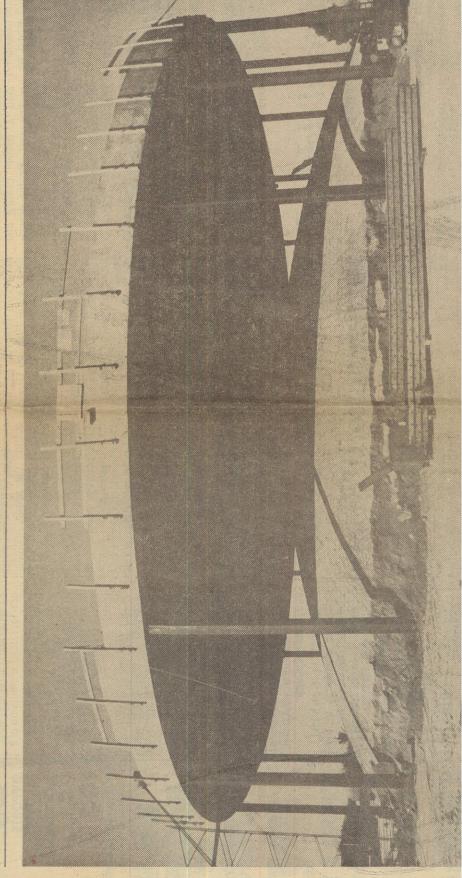
(Section B) Page 1

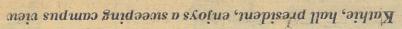
Paul Dean is ill. His column will sume when he recovers.

to aid local ASU grant

law agencies

sented yesterday to the College of Law at Arizona State University to develop procedural policies for local law en-TEMPE - A \$267,048 grant was pre-







A comfortable lounge is popular meeting place with coeds





ASU's Lucky Coeds: On Top of the W

By CHERYL REXFORD

There are many good things about Arizona State University's newest dormitory, Manzanita Hall: Two girls to a room; individual room phones; pink, green, blue and yellow tinted rooms; several televisions; pleasant dining room; piano; and a 1,000-notch mailbox.

But what rates tops with the current crop of 725 residents is the view.

Coeds living on the 14th floor of the dorm (15th floor isn't completed yet) boast the area's best bird's-eye view of the campus and surrounding Valley.

ON A CLEAR day they can see Scottsdale and Phoenix; during football season, occupants on the northwest side watch the games at Sun Devil stadium from their windows. Best of all, fraternity row is directly behind the dorm.

The distinctive architecture of the \$4 million complex has a unique, wall-covering V-frame design. The inside is just as attractive.

On the lower level, girls snack from assorted vending machines and make all the noise they want, encouraged by Mrs. W. Bryce Hunt, resident director. The main floor houses apartments for the director and her administrative assistants, Afton Jean Arp and Libby Friedman.

A DELIGHTFUL blue and green living room welcomes guests and male students waiting for their dates, the library and conference rooms are located behind an information desk and signout boards just around the corner.

Four elevators check the flow of traffic, but can't accommodate everyone. Girls living on the first few floors usually choose to climb a few stairs rather than wait.

Not many are as energetic as several who daily walk up and down from the top; but everyone has to during fire drills.

"It's a good way to firm up your leg muscles and take a few inches off around the thighs," said one.

"I used to climb them every day because I was on a diet, but I don't have to anymore," said a slimmeddown coed.

One girl can't wait to fun across the

hall to her friend's to catch the evening sunsets. Others enjoy spying on their favorite fraternity or trying to spot familiar cars and classrooms.

EACH FLOOR HAS two student assistants or a resident and student assistant to keep things quiet enough for sleeping or studying.

Sue Cornwell, senior, and Rhonda Whitlock, sophomore, from Scottsdale, are SA's on the 14th floor. Each has her separate room, the better for counseling.

"Things are pretty quiet on our floor," said Rhonda, while Sue added, "We have a mixture of Greek and independent girls living here and most act like mature women so there are few problems."

Two foreign students from Bangkok, Thailand, live at the top. Secondary education graduate students on two year scholarships, Vilai Toprasert, 26, and Varaphorn "Gen" Bovornsiri, 24, especially requested mates.

"I wanted to imprand learn American "Gen."

Vilai loves the ste stairs and the short sl short. They do make ment." She also enj rapport between profe

every floor had and colorful lounge. 'on the odd numbered ness meetings and to lounges,' said so Campisano, hall president

There's a laundryon each floor and a ba by two rooms; each a rate dressing room ar in closets.

Maybe this is why Maybe so envied by the other



Sue, left and Rhonda, 14th floor's SA's

aw Building Is Unusual

Warren, Wirtz to Speak at Dedication

EMPE - The college of law ding at Arizona State Univeris preparing for its open house.

ormally dedicated Feb. 26 with sches by U.S. Supreme Court of Justice Earl Warren and Seche 80,000-square-foot building, lue in design and purpose, will rry of Labor W. Willard Wirtz.

rtroom and a spacious library hat the building will be sure to ilty offices, a 400 - seat moot ORKMEN are busily completthe construction of classrooms,

We'll have this place ready in ity of time," said Don McMach-

en, assistant project superintendent for the Del E. Webb Corp. "Of course, we'll still be working on the finishing touches long after the ceremonies."

square foot, is designed to bring students and professors into close THE \$1.6 MILLION building, constructed at a cost of \$20.40 per relationship,

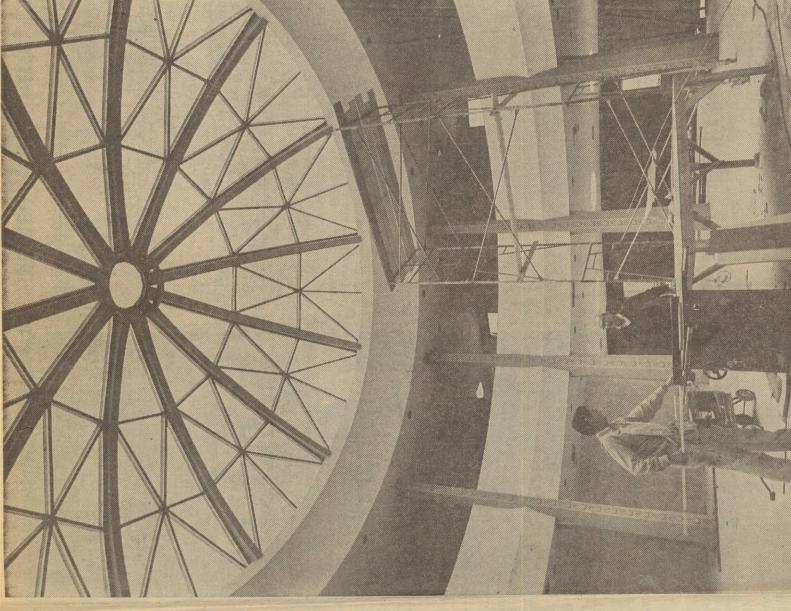
to his office without walking through a huge central meeting area where students may be wait-For example, a faculty member cannot get from the classroom ining with questions.

Professors will lecture in the

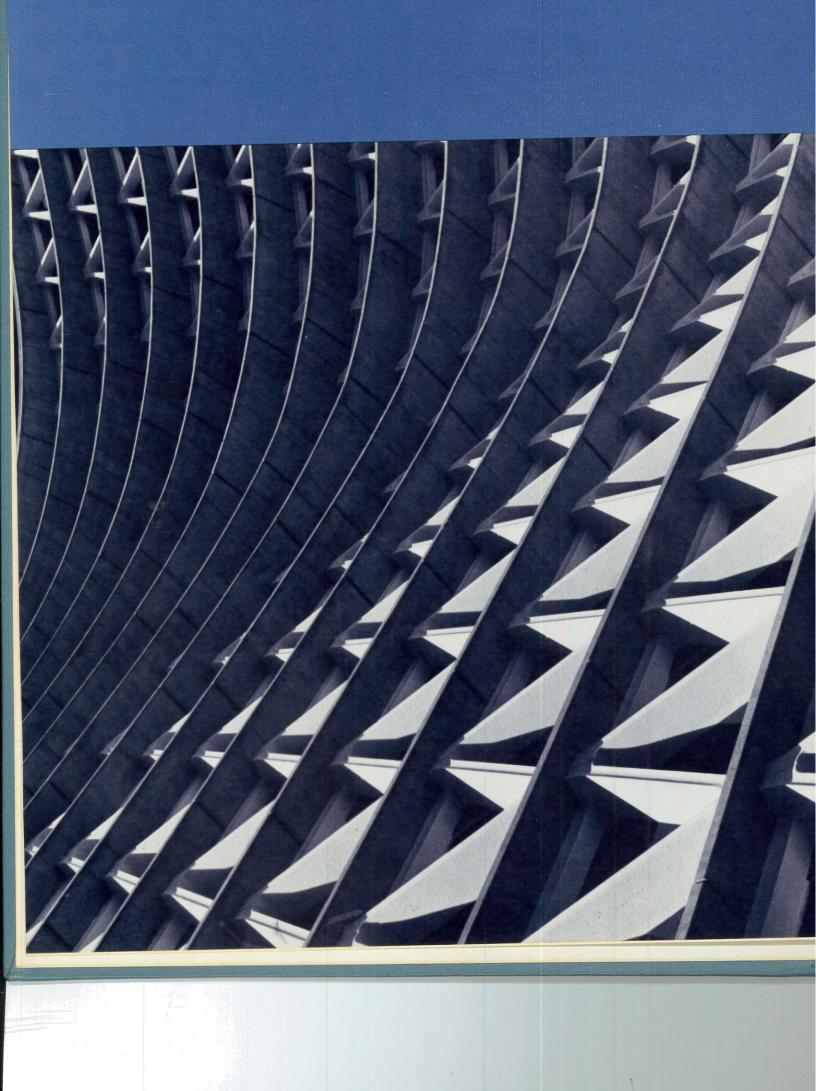
center of classrooms while pupils view the proceedings on elevated tiers from two sides.

ready contains more volumes than nearly half the law school libraries THE HUGE moot court hall will procedure. The circular library alprovide an opportunity for the pupils to learn authentic courtroom in the country.

dean of the ASU law college, "Its cost is actually less than half of several new law buildings now beof functional design and amazing economy," said Willard H. Pedrick, "The law building is a triumph







...and observed that there are minds in our time who have created beauty; if through no other cause but the use of logic, reason, and the principles of sensible existence of things, and the observance of precise, necessary and natural laws.

HENRY VAN DE VELDE



ROSSMAN + PARTNERS PHILOSOPHY

The key word is "QUALITY".

QUALITY of professional service. Our entire efforts are directed toward this one purpose: That our client's money is invested in his building to his greatest benefit.

Our objective is therefore the achievement of lasting value for our clients. And lasting value exists in a building which has the five attributes: Livability, structural and material soundness, and beauty - all at equitable cost.

We believe in exhaustive research of programs and their contemporary analogues, in time-directed material and structural studies and meticulous field control.

Our buildings substantiate our central philosophy of architecture: "That not surface decoration, but the most elegant structural solution equals lasting beauty"...this is the secret of the timeless structure.

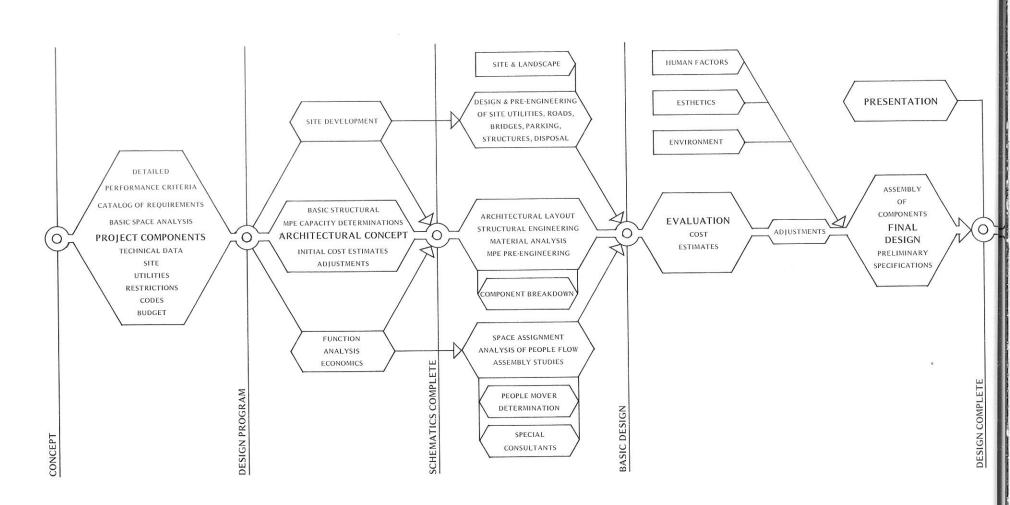




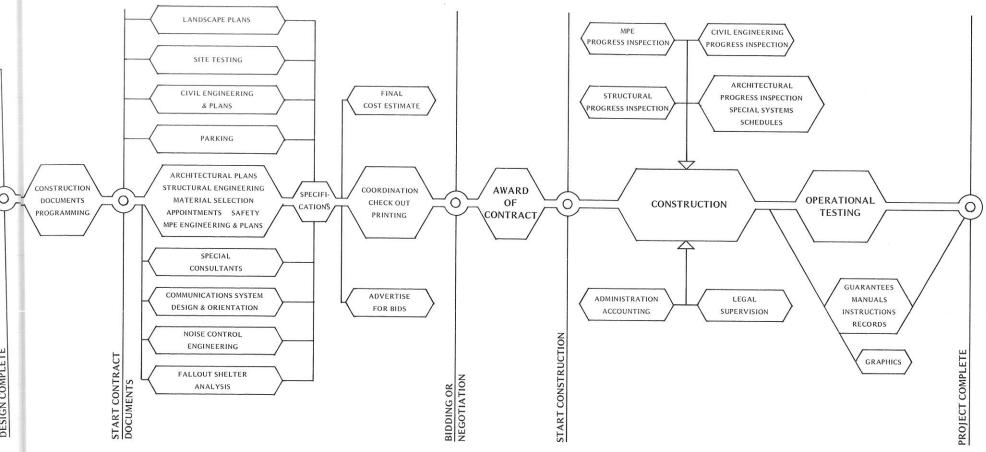




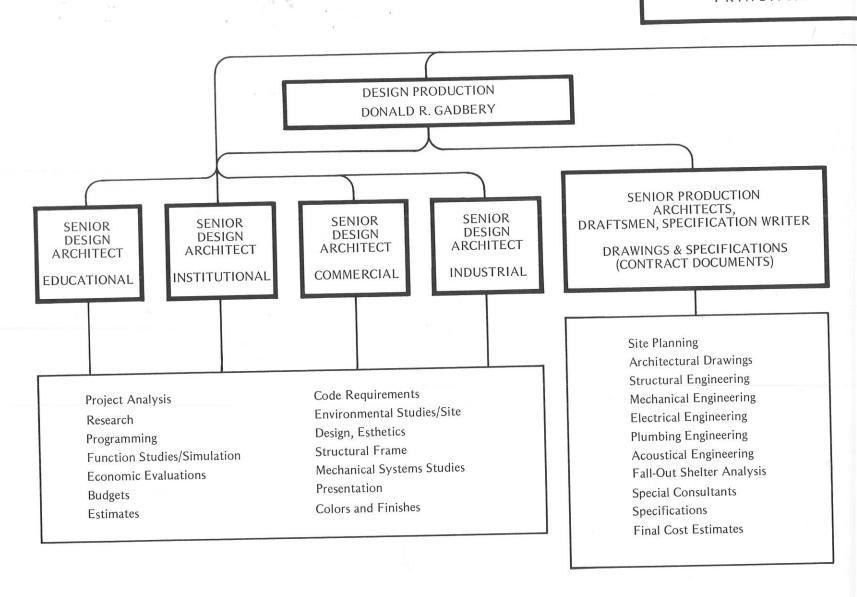


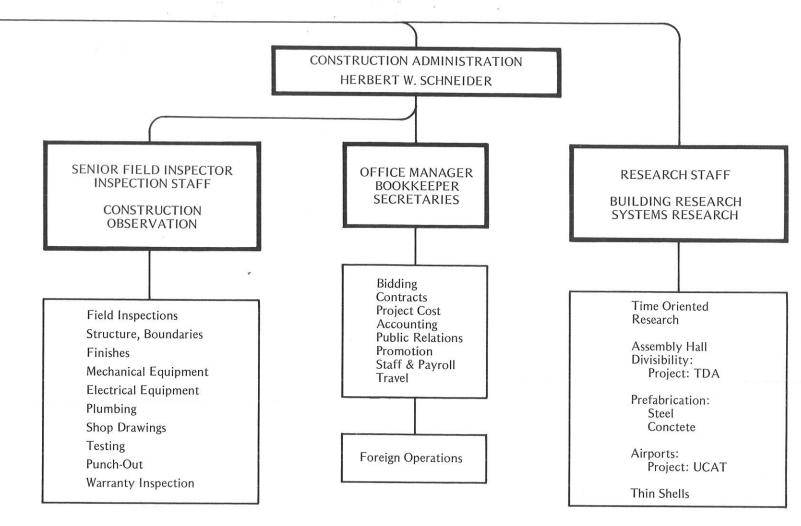






ROSSMAN + PARTNERS PLANNING PATH





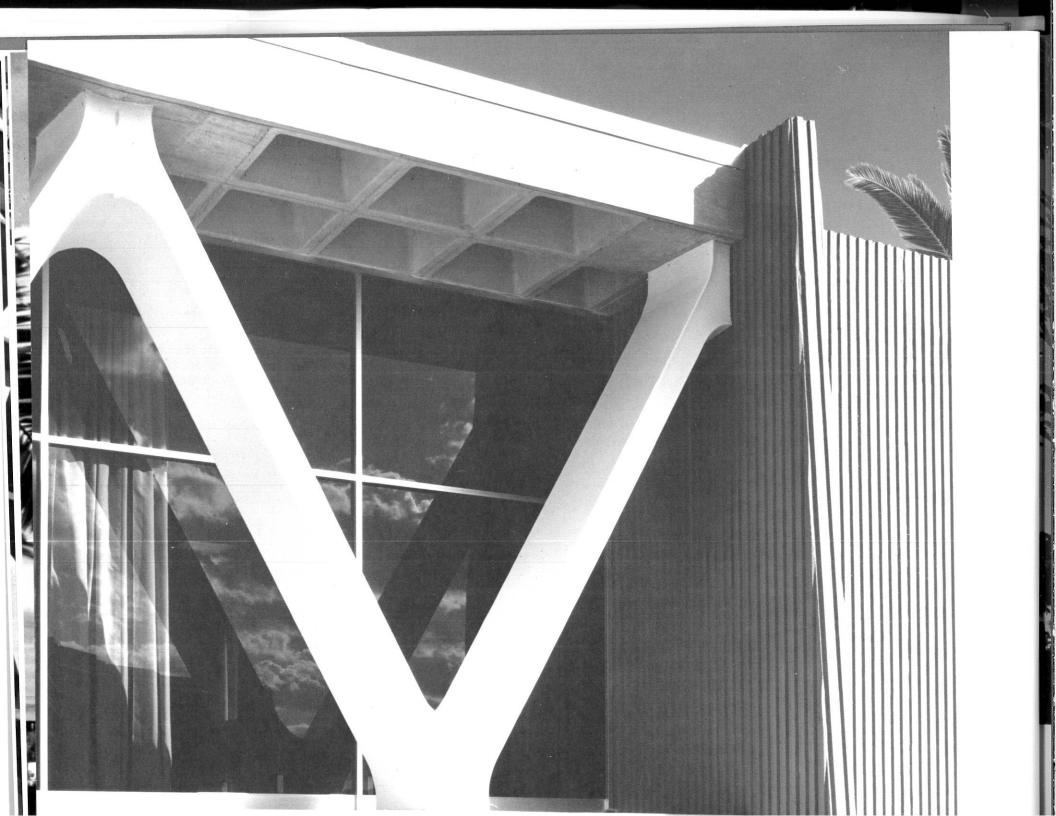
ROSSMAN + PARTNERS ORGANIZATION CHART





PROJECTS





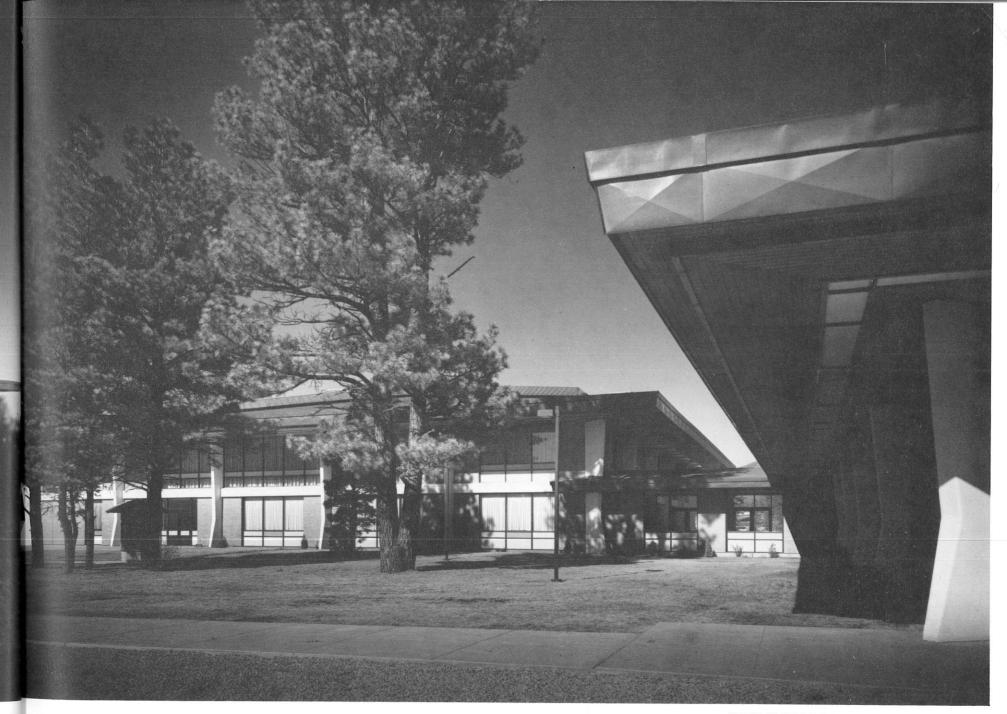


MANZANITA HALL
Residence and Dining Hall
ARIZONA STATE UNIVERSITY
Tempe Arizona









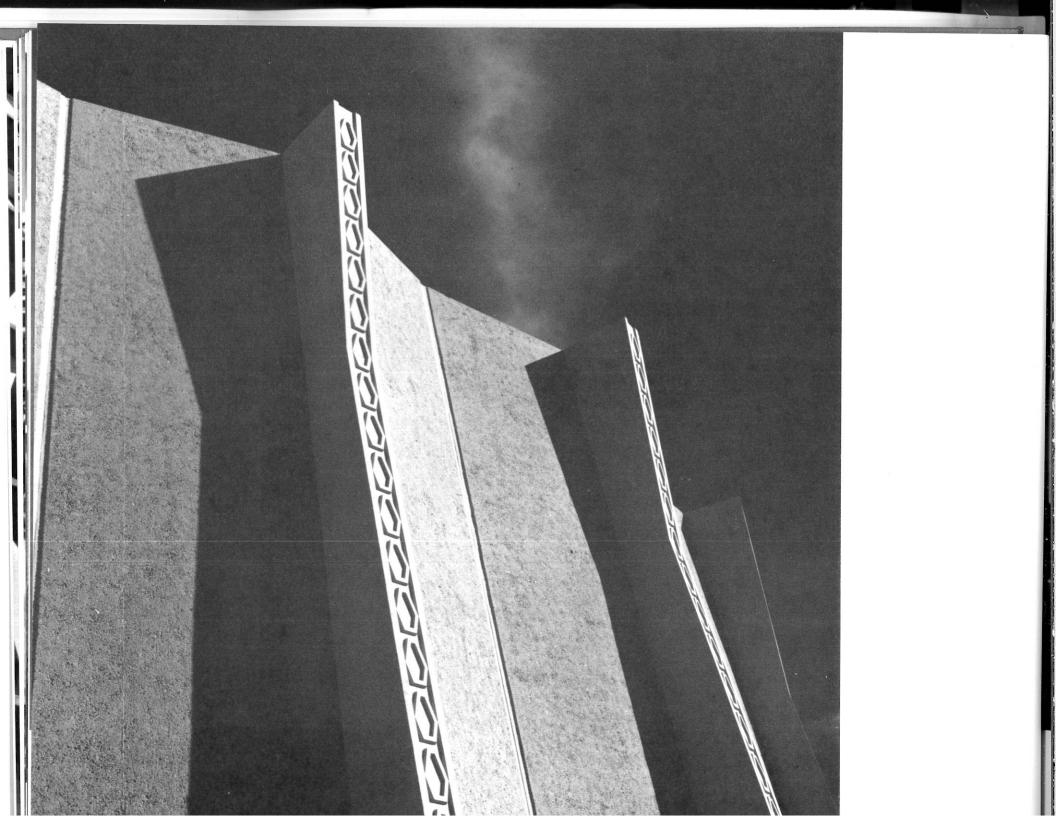
STUDENT UNION AND DINING HALL SOUTH CAMPUS NORTHERN ARIZONA UNIVERSITY Flagstaff Arizona



STUDENT UNION LOUNGE - NAU



S T A U F F E R H A L L
COMMUNICATION ARTS BUILDING
ARIZONA STATE UNIVERSITY
Tempe Arizona

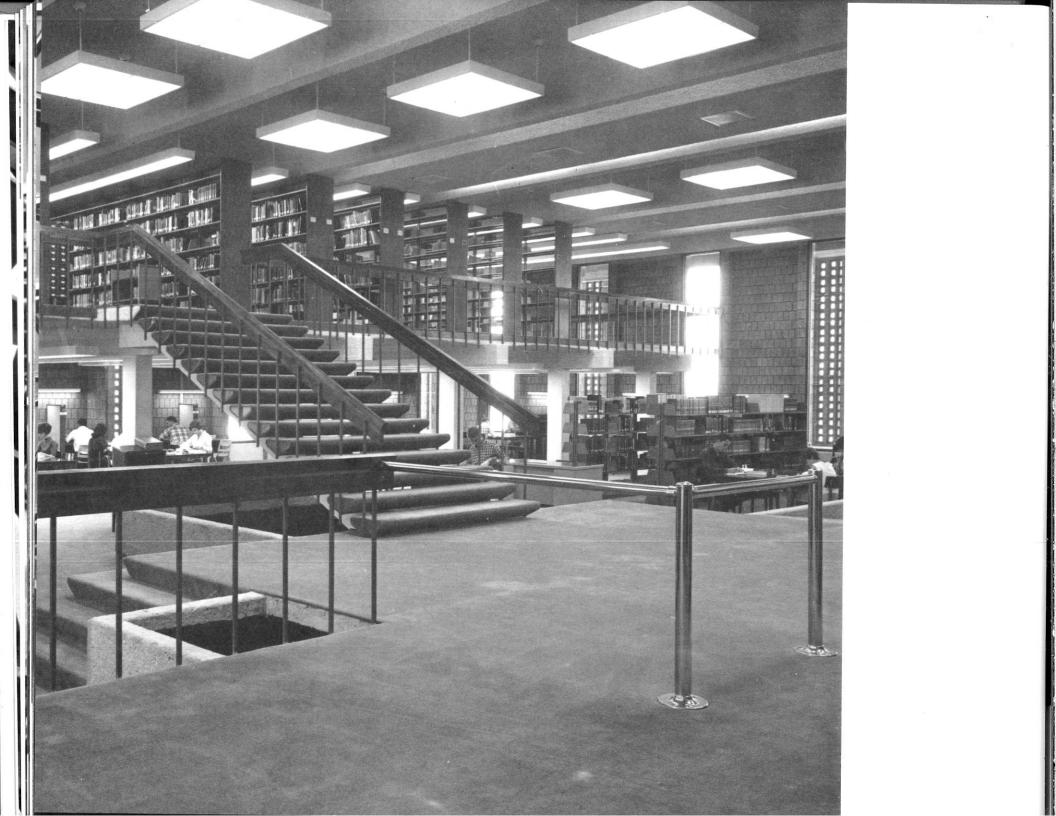




ARMSTRONG HALL
COLLEGE OF LAW
ARIZONA STATE UNIVERSITY
Tempe Arizona









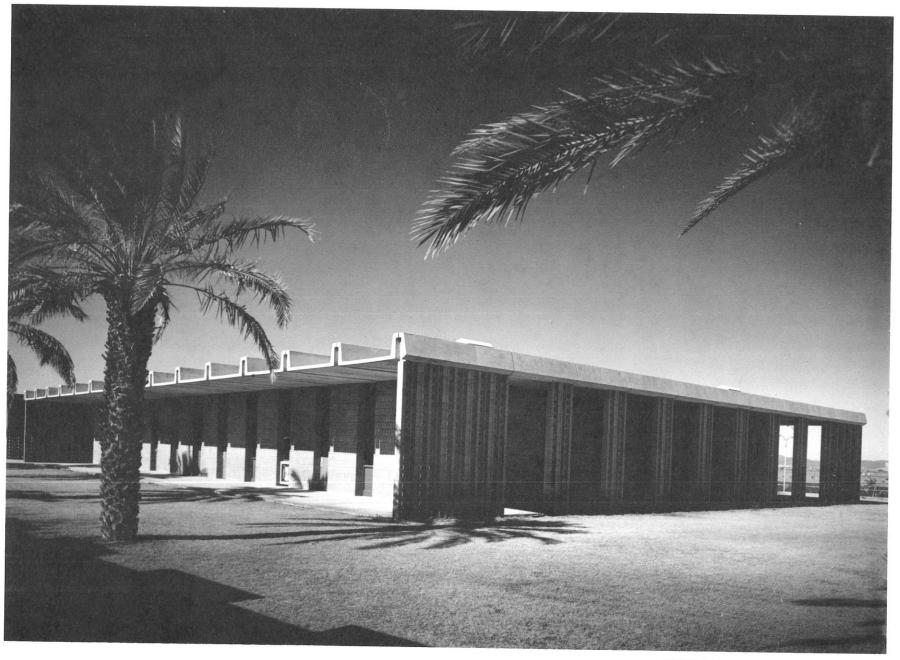
LIBRARY
ARIZONA WESTERN COLLEGE
Yuma Arizona



COLLEGE OF BUSINESS ADMINISTRATION SOUTH CAMPUS NORTHERN ARIZONA UNIVERSITY Flagstaff Arizona



COLLEGE OF BUSINESS EDUCATION
ARIZONA WESTERN COLLEGE
Yuma Arizona



SCIENCE BUILDING ADDITION ARIZONA WESTERN COLLEGE Yuma Arizona



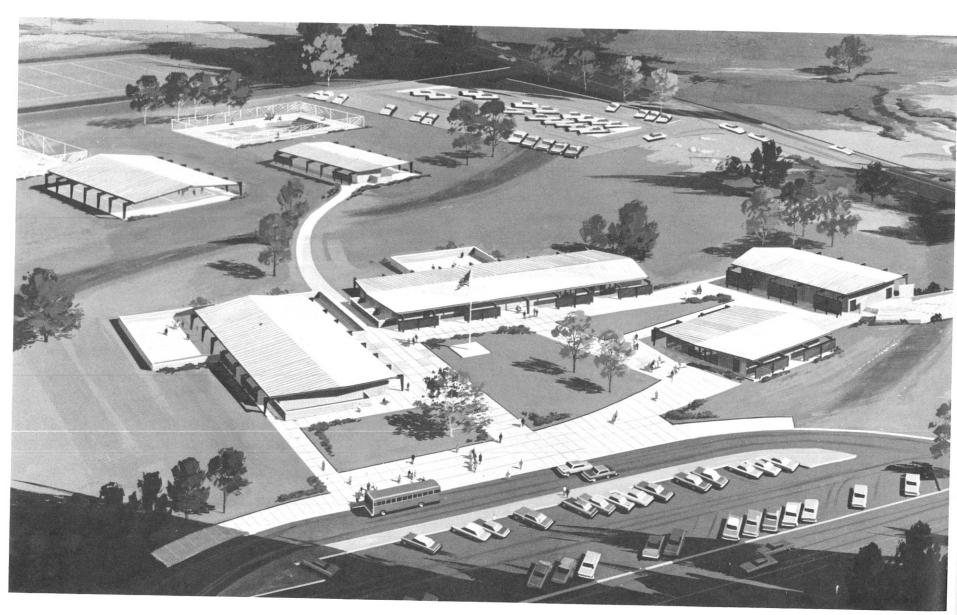
PALO VERDE WEST — PALO VERDE EAST
Residence and Dining Halls
ARIZONA STATE UNIVERSITY
Tempe Arizona



GARCES HOUSE — Dormitory ARIZONA WESTERN COLLEGE Yuma Arizona



KINO HOUSE — Dormitory ARIZONA WESTERN COLLEGE Yuma Arizona



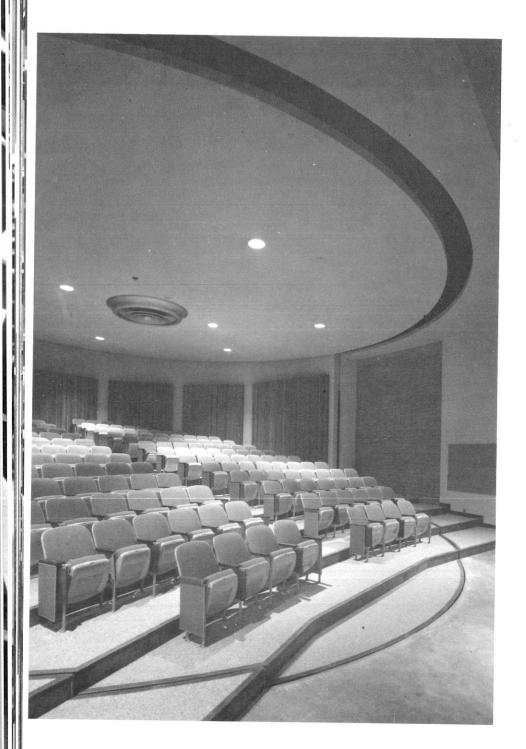
BORREGO SPRINGS HIGH SCHOOL Borrego Springs California

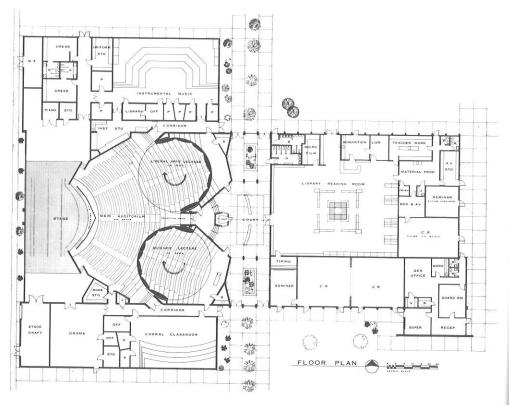


THUNDERBIRD Glendale

HIGH

SCHOOL Arizona





AGUA FRIA UNION HIGH SCHOOL Avondale Arizona

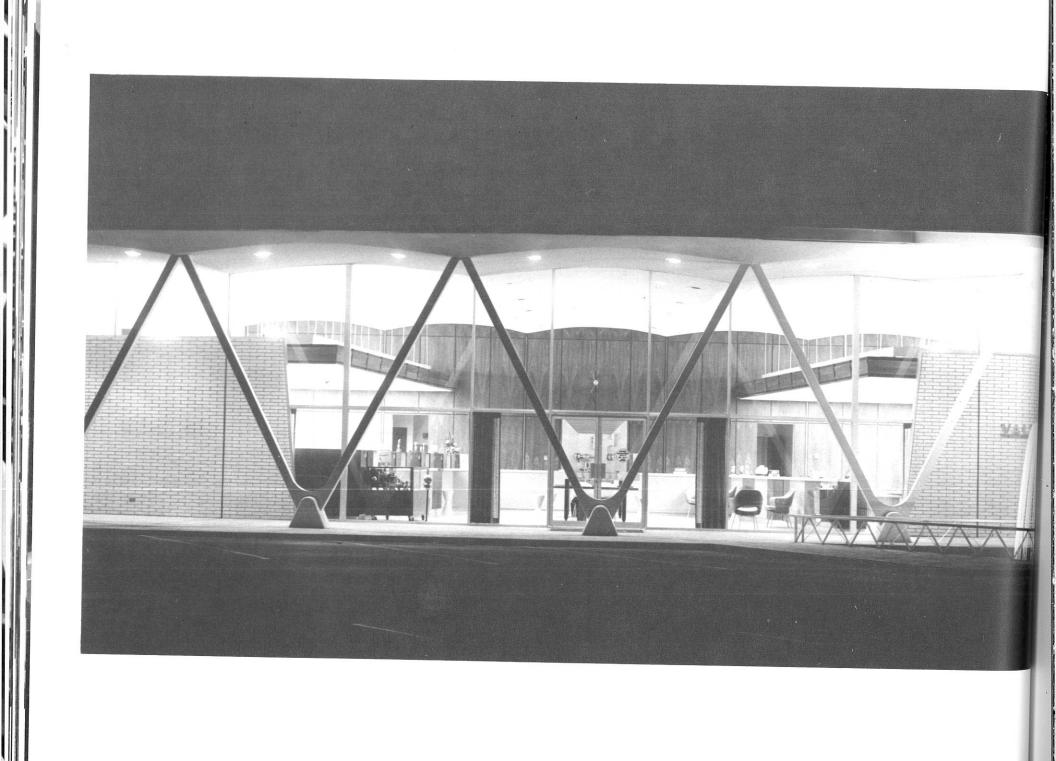
1971 Architectural Exhibition
NATIONAL SCHOOL BOARDS ASSOCIATION

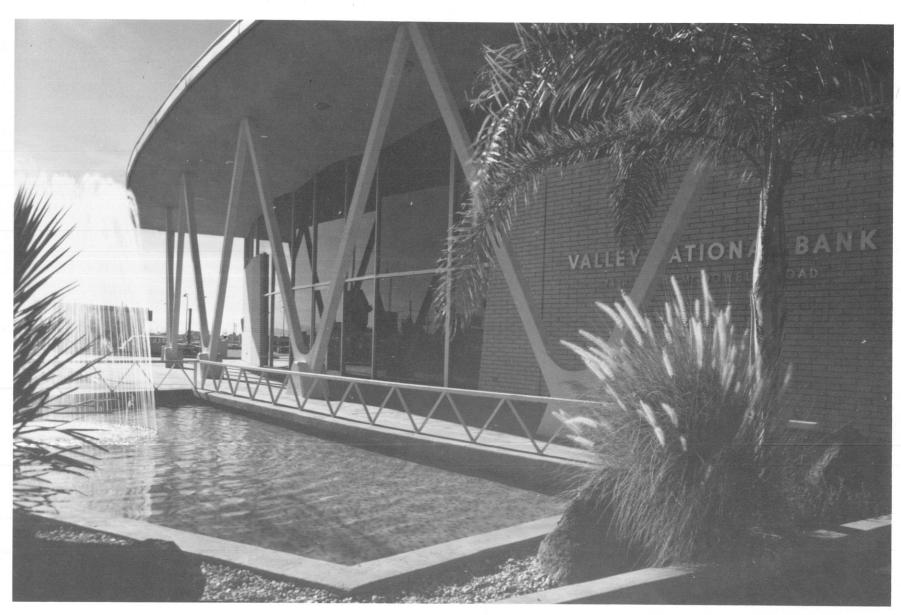






M U S I C B U I L D I N G ANTELOPE UNION HIGH SCHOOL Wellton Arizona

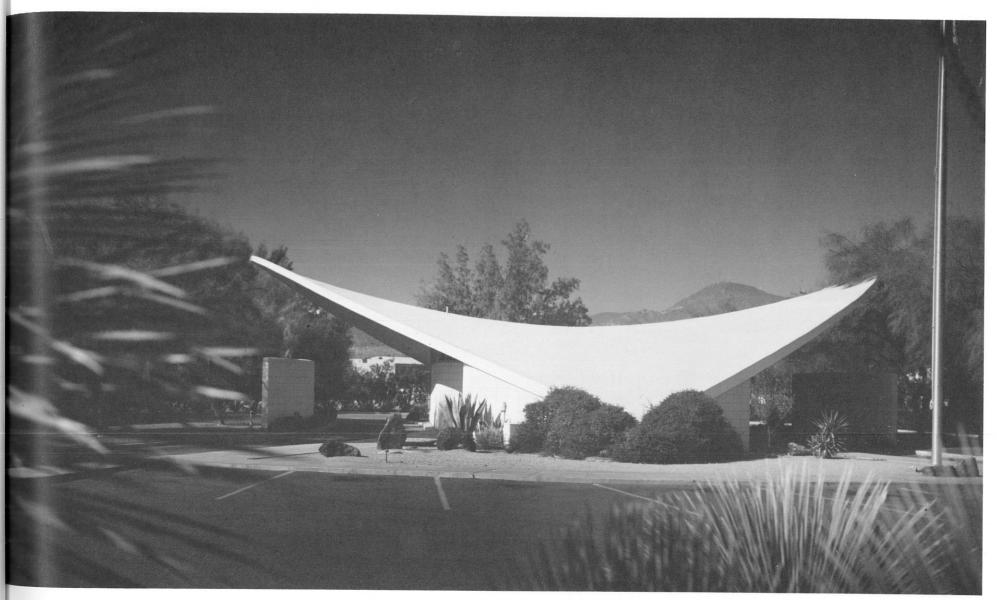




BRANCH OFFICE VALLEY NATIONAL BANK Scottsdale Arizona



BRANCH OFFICE VALLEY NATIONAL BANK Phoenix Arizona

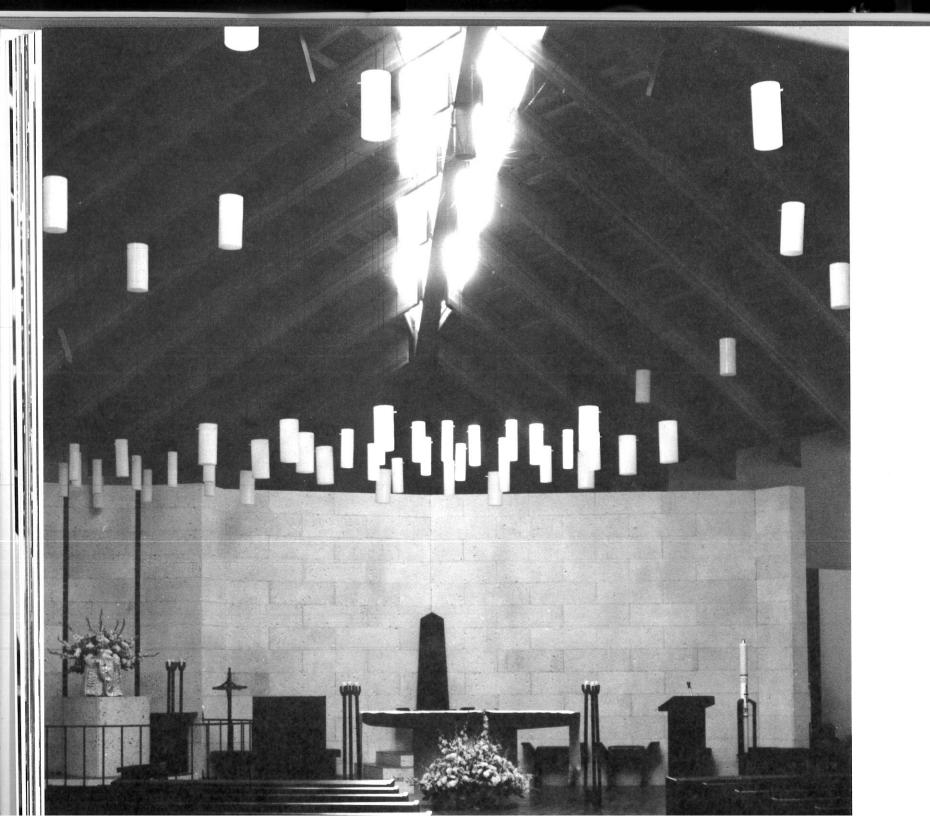


BRANCH OFFICE UNITED BANK Phoenix Arizona



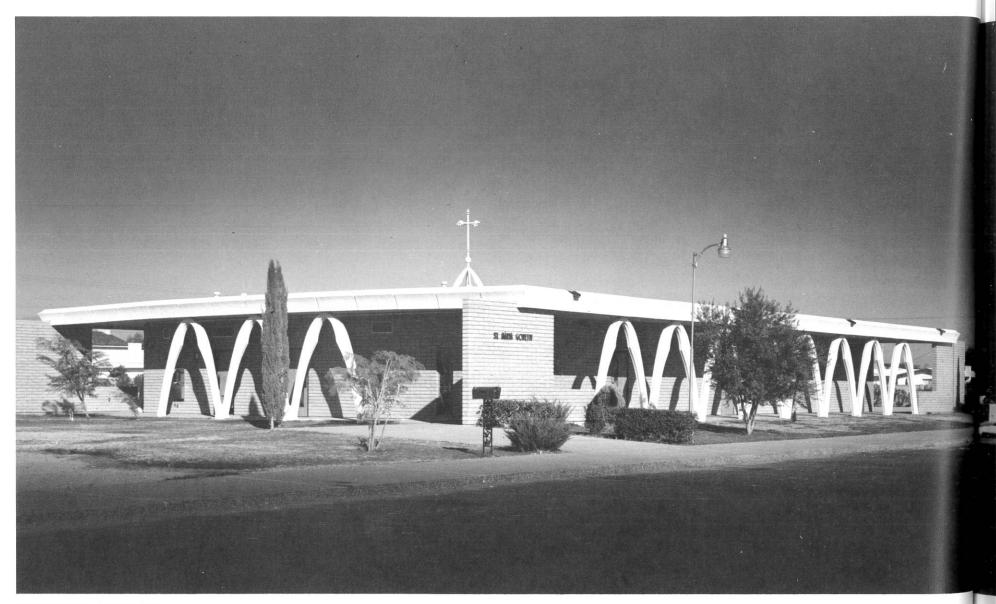


PARKVIEW BAPTIST HOSPITAL Yuma Arizona

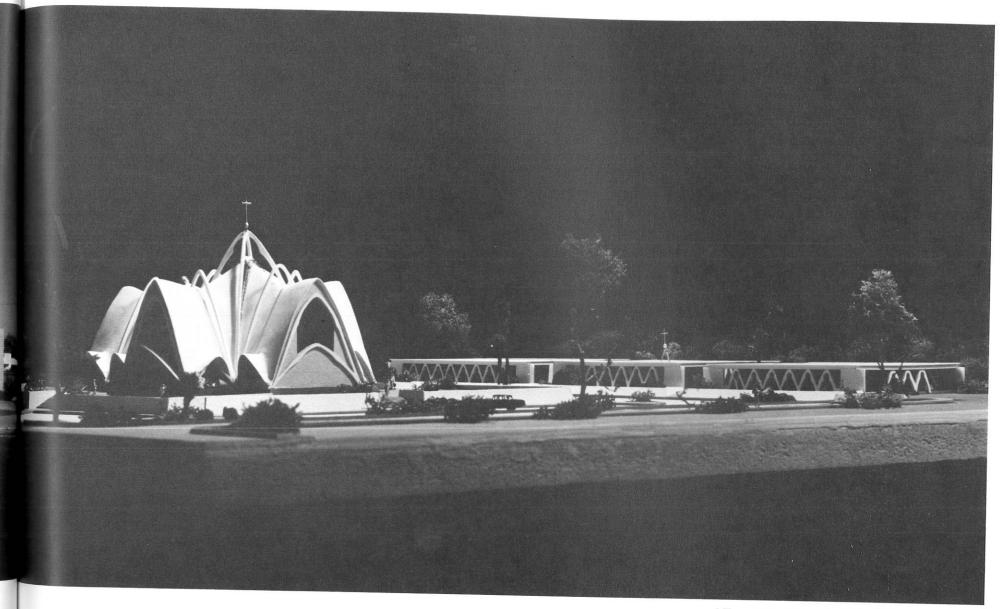




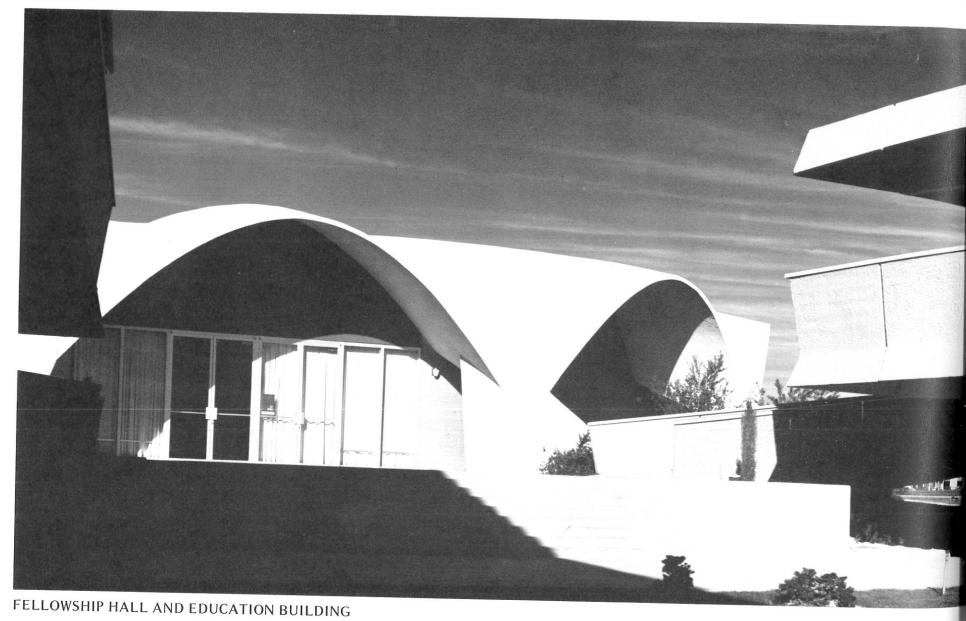
ST. ODILIA CATHOLIC CHURCH Tucson Arizona

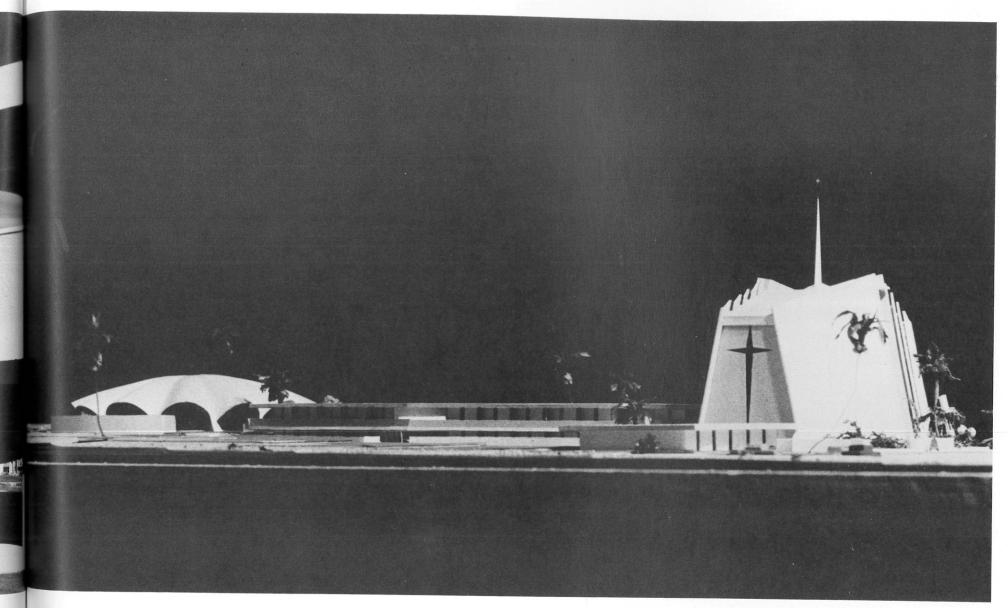


EDUCATION BUILDING

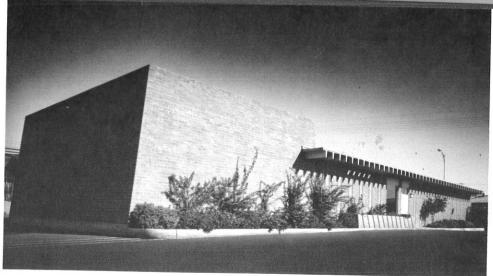


ST. MARIA GORETTI CATHOLIC CHURCH AND EDUCATION BUILDING Scottsdale Arizona

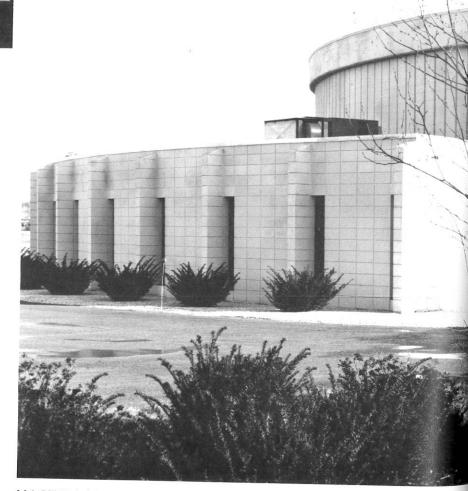




LOS ARCOS METHODIST CHURCH FELLOWSHIP HALL AND EDUCATION BUILDING Scottsdale Arizona



CROSSCUT LABORATORY
SALT RIVER PROJECT
Tempe Arizona



MACTON MANUFACTURING PLANT Awarded citation TOP TEN PLANT — U. S. 1971



THE MACTON CORPORATION
Danbury Connecticut

PROJECTS

Project Name	Project Cost	Project Name	D
Borrego Springs High School Borrego Springs Unified School District Borrego Springs, California	\$ 745,900.00	74th Street & McDowell Office Valley National Bank Scottsdale, Arizona	<i>Project Cost</i> 242,400.00
Additions & Remodeling (52 beds) Parkview Baptist Hospital Yuma, Arizona	707,150.00	Science Building Arizona Western College Yuma, Arizona	153,000.00
Co-educational Dormitory #3 Arizona Western College Yuma, Arizona	479,200.00	Sunnyslope Office & Camelback Office Guaranty Bank (United) Phoenix, Arizona	99,700.00
Co-educational Dormitory #2 Arizona Western College Yuma, Arizona	417,300.00	Lafe Nelson School Safford Public Schools Safford, Arizona	132,200.00
Co-educational Dormitory #1 Arizona Western College Yuma, Arizona	387,900.00	Cross Cut Laboratory & Office Building Salt River Project Tempe, Arizona	87,600.00
Downtown Regional Home Office Guaranty Bank (United) Phoenix, Arizona	386,750.00	Pedestrian Bridge Arizona State University Tempe, Arizona	40,600.00
Fellowship Hall & Classroom Buildings Valley Plaza Methodist Church (Los Arcos) Scottsdale, Arizona	358,000.00	A Convent Building St. Catherine Parish Phoenix, Arizona	65,000.00
Music Building & Science Building Antelope Union High School District Wellton, Arizona	245,800.00	Greenway High School Glendale Union High School District Glendale, Arizona	3,050,000.00
Science, Library & Adm. Building Safford High School District Safford, Arizona	230,150.00	Additions & Remodeling Creighton Public Schools Phoenix, Arizona	5,100,000.00

PROJECTS

Project Name	Project Cost	Project Name	Project Cost
New Primary & Kindergarten Safford Public Schools Safford, Arizona	497,600.00	College of Business Administration Building Northern Arizona University Flagstaff, Arizona	2,256,600.00
Thunderbird High School Glendale Union High School District Glendale, Arizona	2,904,900.00	Addition to Telephone Building Mountain Bell Telephone Flagstaff, Arizona	96,700.00
Communication Arts Building Arizona State University Tempe, Arizona	2,400,000.00	Residence and dining hall for 400 — Palo Verde West Arizona State University Tempe, Arizona	1,505,000.00
Roman Catholic Church of St. Maria Goretti Scottsdale, Arizona South Mountain High Colon Land Colon (TD)	500,000.00	Residence and dining hall for 400 — Palo Verde East Arizona State University Tempe, Arizona	1,365,000.00
South Mountain High School Auditorium (TDA) Phoenix Union High School District Phoenix, Arizona	1,012,000.00	Library, Business Education Bldg., Technology Building Arizona Western College	804,300.00
Industrial Arts Facilities	82,800.00	Yuma, Arizona	
Agua Fria Union High School District Avondale, Arizona Additions & Remodeling	570,000.00	Lyceum Theater Arizona State University Tempe, Arizona	22,140.00
Litchfield Public Schools Litchfield Park, Arizona		19th Avenue & Peoria Office Valley National Bank Phoenix, Arizona	108,400.00
Additions & Remodeling Mountain Bell Telephone Sunnyslope Office Phoenix, Arizona	161,000.00	Library, Auditorium (TDA) and Gymnasium Agua Fria Union High School District Avondale, Arizona	1,164,000.00

PROJECTS

Project Name	Project Cost	Project Name	Project Cost
A Manufacturing Plant (Top Ten Plant — U.S. 1971) The Macton Corporation	450,000.00	New Elementary School Camp Verde Public Schools Camp Verde, Arizona	467,400.00
Danbury, Connecticut South Campus Dining Hall Facility Northern Arizona University	645,800.00	South Campus Student Union Building Northern Arizona University Flagstaff, Arizona	1,035,800.00
Flagstaff, Arizona Roman Catholic Church of St. Odilia Tucson, Arizona	315,000.00	Residence & dining hall for 1,000 — Manzanita Hall Arizona State University Tempe, Arizona	3,640,000.00
An Education Building St. Maria Goretti Parish Scottsdale, Arizona	116,100.00	College of Law Building Arizona State University Tempe, Arizona	1,644,000.00

One division of the activities of ROSSMAN AND PARTNERS concerns itself with building research. This research is time oriented and deals with fields of practical consequence. Buildings and function systems which have remained unsolved are prime targets.

Three projects are subjected to continued extensive study: Auditorium divisibility, airports and thin shells. In all three areas, new solutions were found. Other projects include building acoustics, prefabrication in steel and concrete, and educational facilities. ROSSMAN RESEARCH publicizes its findings extensively in the United States of America and internationally. By 1971, 18 patents have been granted on new developments of ROSSMAN RESEARCH.

RESEARCH PROJECTS



TDA — TURNTABLE DIVISIBLE AUDITORIUM

ARCHITECTURE

Whereas conventional division methods simply cut an auditorium into pieces, thus rendering the divided spaces useful for less than 1/2 of all possible functions, the TDA principle creates complete, architecturally correct sub-auditoriums. Because the sloped floor turns with the seats and the turnable space attaches to its own stage, best possible sight-lines in both coordinates are maintained.

ACOUSTICS

Main and sub-auditoriums all have their independent, precisely adjusted acoustics. To maintain balanced characteristics for any combination of these, acoustic behavior of the space of a sub-auditorium is similar to that of the convex surface of its back wall.

SOUNDPROOF

The load bearing abilities of the turntable permit the application of the best type of dividing wall to stop sound transmission between separated spaces -2 independent plaster and steel-mesh layers, weighing over 20 lbs. per square foot, achieving a reduction of 55 db plus.

MECHANICS

Like a railroad car, the TDA turntable is one single moving component. Driven near the rim by one small motor, it rides on a series of peripheral wheels on a circular track. The turntable is capable of literally hundreds of thousands of trouble-free revolutions with a minimum of maintenance

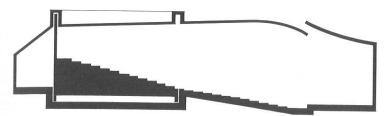
THE TDA INTO AN EXISTING BUILDING

The turnable unit is independent of any structural frame of the surrounding building; therefore, incorporating the TDA principle into existing auditoriums is quite frequently feasible. Since neither lighting nor air conditioning are connected with the turning component, both remain part of the existing structure.



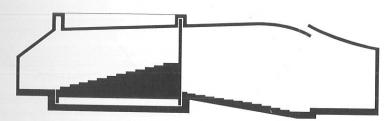




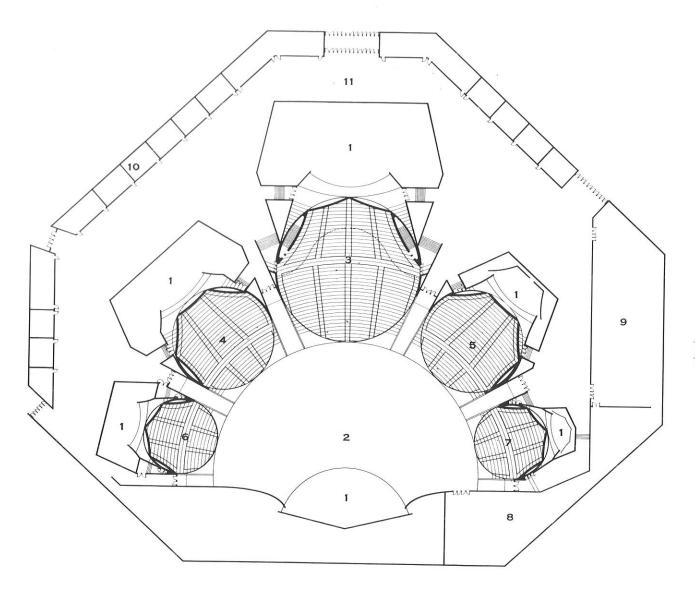


The divisible area is united with and a part of the main auditorium

THE TDA PRINCIPLE

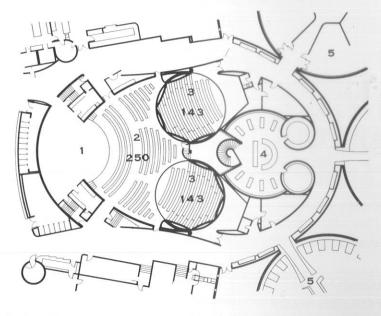


The divisible area is separated and has become a smaller auditorium by a 180° circular turn.

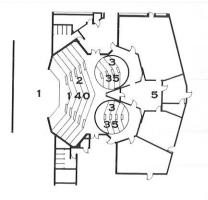


1	Stage	
2	Main Floor	3200
3	Auditorium	2200
4	Legitimate Theater	700
5	Recital Hall	700
6	Little Theater	350
7	Recital Hall	350
8	Kitchen	
9	Dining	
10	Convention Rooms	
11	Lobby	
	Total Seats	7500

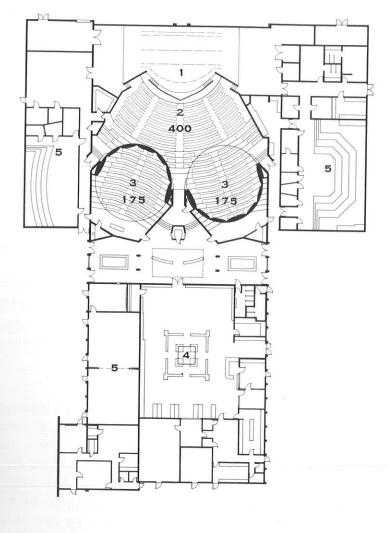
TDA CONVENTION CENTER



E C O L E P O L Y V A L A N T E ST. HILAIRE P. Q. CANADA MARCEL CYR — ARCHITECT ST. HYACINTH P. Q. CANADA



- 1 Stage
- 2 Auditorium
- 3 T. T. Lecture Hall
- 4 Library
- 5 Classrooms



AGUA FRIA UNION HIGH SCHOOL AVONDALE, ARIZONA ROSSMAN AND PARTNERS — ARCHITECTS PHOENIX ARIZONA

INTERMEDIATE SCHOOL LAKE VILLA, ILLINOIS ANDERSON, REHDER, YANDRE, INC. — ARCHITECTS WAUKEGAN ILLINOIS

COMPLETED TDA PROJECTS

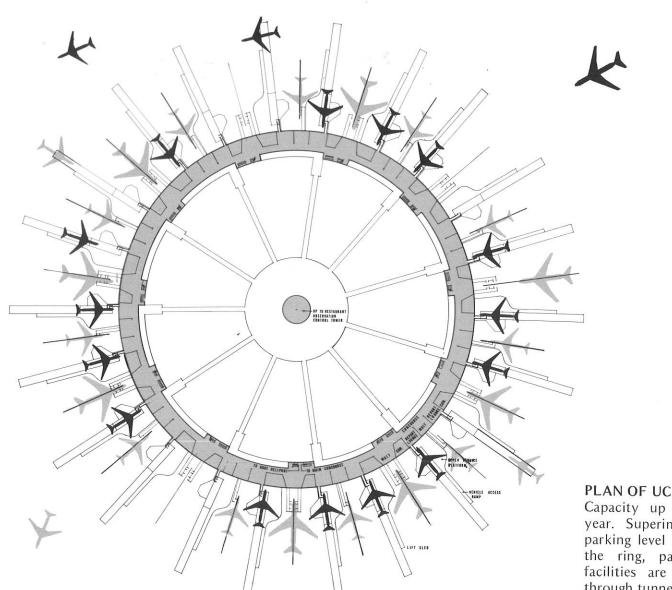
UCAT — ULTRA COMPACT AIRPORT TERMINAL

One of the most prominent building systems is the complex structure of the modern airport. Having grown from nothing to today's giants in an almost breathless progression of trial and error, airports have become the abjection of the traveler, the enemy of the community and the headache of the administrator.

To obtain the re-statement of its intrinsic nature, ROSSMAN RESEARCH approached the problem philosophically first. It became obvious that all attempts toward solutions so far were of like kind, substantially subordinating passengers to aircraft. This provided the key to definitions of wholly new axioms of acceptability and, as a result, geometries, function pattern and terminal building technology.

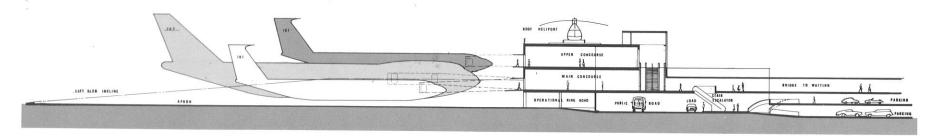
The result was UCAT.

The UCAT is a closed circle concourse. Thus the greatest walking distance reduces to 1/3 of the airside-landside contact line, as compared to 1/1 for all present systems. ROSSMAN RESEARCH developed an additional device, called the Lift Sled, which elevates aircraft wing-over-wing to decrease the maximum walking distance yet further to 1/5. Consequently, the size of a terminal building with extremely high capacity — up to 50,000,000 passengers per year — has maximum and average walking distances no greater than today's 4,000,000-a-year passenger terminals. Time savings for passengers and operations are dramatic. Buildings reduce in size and cost by 20%, and real estate needs are less than 1/2 of traditional systems. Great gains are also attained in increased ramp areas, general functions and operational cost savings.

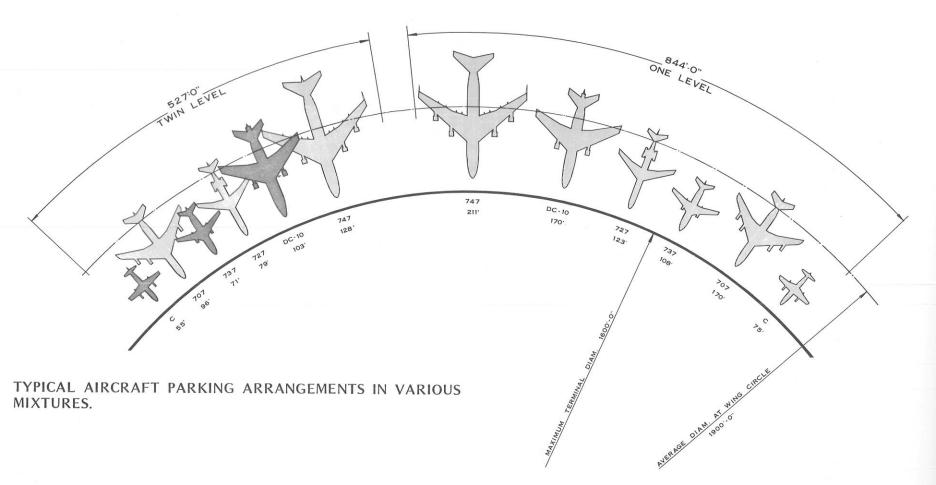


PLAN OF UCAT -44 GATE POSITIONS.

Capacity up to 40,000,000 passengers per year. Superimposed, the lower and upper parking level of aircraft can be seen. Within the ring, parking structures and central facilities are located. Access and exit is through tunnels to ring roads, radial roads and central spiral.



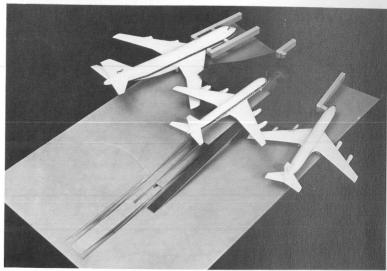
DIAGRAMMATIC CROSS SECTION THROUGH RING CONCOURSE



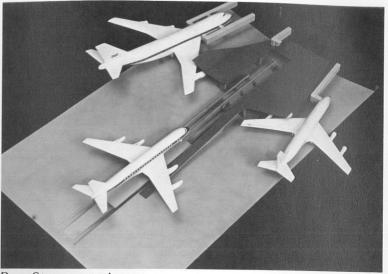
LIFT SLED, A DEVICE TO ELEVATE AIRCRAFT WING-OVER-WING TO AN UPPER LEVEL PARKING POSITION.



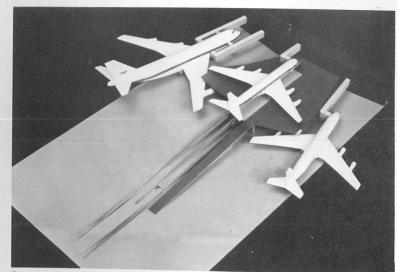
A. Lift sled on apron level. Aircraft positioned.



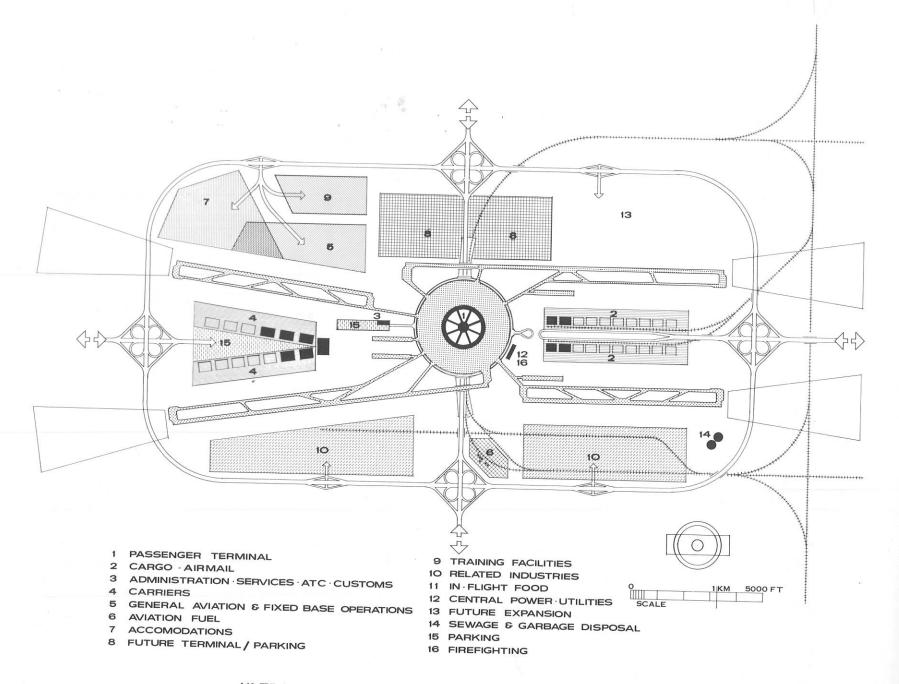
C. Wing overlap in second ascend stage.



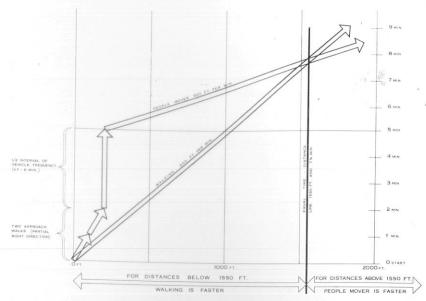
B. Steep ascend stage.



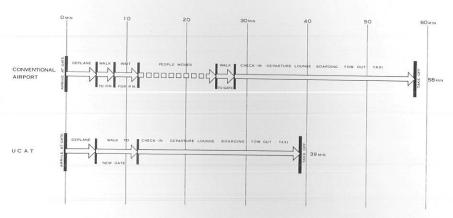
D. Aircraft in upper terminal position.



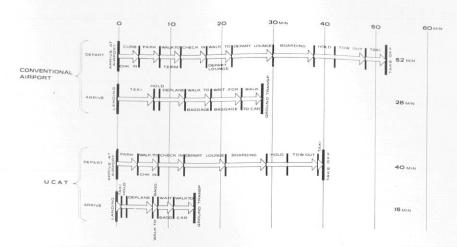
ULTRA COMPACT AIRPORT FUNCTION AND LAND USE PLAN



TIME-DISTANCE VECTORS: WALKING VS. PEOPLE MOVER



TRANSFER TIME VECTORS



DEPARTURE AND ARRIVAL TIME VECTORS

Time vector studies of all major functions of the UCAT and comparable traditional systems were carried out. In all instances, UCAT proved its superiority by substantial time and space savings. A separate study concerned the capabilities of people movers versus walking. It was found that up to 1550 feet, people movers are at a disadvantage. This formed the logical basis of developing maximum distance geometries on the basis of walking.

100 500

When you consider building, perhaps the most important decision you will make is the choice of your architect.

To the architect, you will entrust the interpretation of your program and your budget. Your structure's acceptance, usefulness, and beauty depend upon the right selection.

RSG Architects will view your project with the respect that it deserves. Our goal is to create, from your program, an environment of livability and efficiency within material soundness and equitable cost.

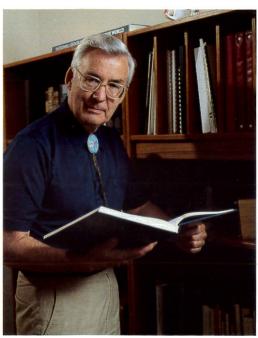
You can draw upon RSG Architects' resources for the talent and experience to design aesthetic excellence. The excellence you expect from your architectural firm.

Just as architecture is a creative art and the most accomplished design is the work of a single designer — so is architecture a complex technology. The fulfillment of the concept must be an orchestrated achievement by many individuals — the diverse members of the RSG Architects team.

In the pages that follow, we introduce our work and ourselves to you. We trust our style and quality, the hallmark of RSG Architects' professional record, will awaken your interest.

RSG



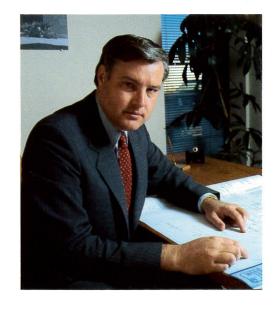


At the heart of every successful enterprise is a dynamic, visionary and creative individual.

> Such a man is the founding partner of RSG Architects, Dr. Wendell Rossman. He holds advanced degrees

tecture. All structures emanating from RSG are either wholly shaped or influenced by his innovation. As a designer, writer and lecturer, his work has won international acclaim.







Architecture depends on several important relationships. One of paramount importance is the firm's relationship with the client.

> Herbert Schneider is an architect with eminent knowledge and experience in the full measure of project administration. He is the most visible member of RSG's team.

His work centers on marketing, construction administration and contracts. Herb Schneider is a Fellow of the American Institute of Architects and serves on numerous professional/public boards and committees.

Any successful architectural team must possess the diversity and depth to accomplish the many tasks related to each project.

Howell L. Shay, III's charge is determining a building's technological aspects and the subsequent interpretations into contract documents. He is an architect with formidable skills. Apart from being a designer par excellence, he has an extensive background in all phases of architecture. His experience as a Major in the National Guard of Arizona has given him a wealth of experience in military engineering. Howell and his team of architects, interior designers and specialists lay the foundations of the actual construction.



While vision may achieve the breakthrough, proper implementation requires concise and thorough work.

> Donald Gadbery's focus is on master planning. He is an architect who possesses superior knowledge and experience in plans and specifications. Don and his staff have the expertise to create programs when programming for certain tasks is not available. Close communication with the client is a crucial part of his responsibility.







The efficiency of RSG Architect's professional domain is entrusted to Lori Dykstra. Her responsibilities include internal office management, finances, supervision of support staff, and project accounting. Lori creates the marketing tools and controls the flow of information between RSG Architects and clients. She is a charter member of the prestigious Professional Women in Architecture/ Engineering.



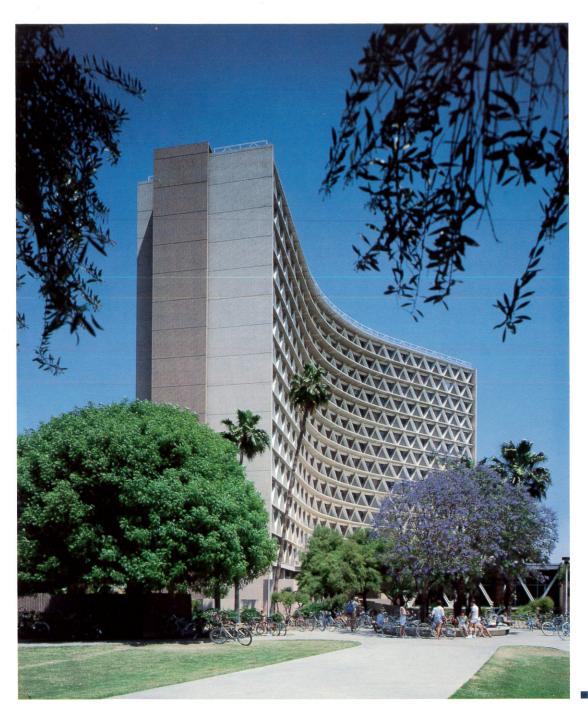






















ROSSMAN SCHNEIDER GADBERY SHAY

8681 East Via de Negocio Scottsdale, Arizona 85258-3330 Tel: (602) 991-0800 Fax: (602) 991-2623



RSGS ARCHITECTS



"Architecture is an enclosure created by man's sympathetic intervention into the process of nature."

H.L.S.



When you consider building, perhaps your most important decision is selecting an architect to interpret your program and budget as well as to create a structure which meets the requirements of acceptance, usefulness, functionality and beauty. While respecting the parameters established by your program, our goal is to provide you with an architectural environment that is livable, efficient, materially sound and economically priced. You can rely on our talent and experience to combine logic and function with aesthetic excellence — the excellence you expect from your architectural firm.

Functionality, efficiency, convenience and practicality represent but one side of quality architecture and these are attainable through the methodologies of good practice. However, there is another side which transcends these attributes and is born by imagination and the ability to infuse personality into architecture. It is this personality which gives the structure its absolute and final value.

This other side of architecture consists of the emotional relationship of people to the constructed environment. While they may be satisfied with a building's functionality.

it is equally important to understand how they feel with their environment. At issue here is the emotional interaction between the building's occupants and their surroundings. Ideally, the structure will be uplifting, supporting, pleasing and inspiring. Our design philosophy uniquely deals with both sides of these issues. To achieve this elusive inter-relationship, our team possesses the professional architectural skills necessary to create a new entity through the knowledge of countless technical, artistic, economical, sociological and historical considerations. Our philosophy is broadly inclusive. It always retains accord between sociological matrix, function and aesthetics.

Ever vigilant of trends yet always avoiding transitory styles, RSGS varies its architecture from the conservative to the imaginative while never neglecting that which gives the structure its intended transcending value. We employ all the available technologies of our age in completing each assignment. Yet in creating these concepts, we instinctively rely on our most basic tools: sensitivity, logic, observation and imagination.



At the heart of every successful enterprise is a dynamic, visionary and creative individual.

Such a man is the founding partner of RSGS Architects, Dr. Wendell Rossman. He holds advanced degrees in engineering and architecture. All structures created by RSGS are either wholly shaped or influenced by his creativity. As a designer, author and lecturer, his work has received international attention.

Architecture depends on several important relationships. One of paramount importance is the firm's relationships with its clients.

Herb Schneider is a noted architect who also excels in all aspects of project administration. His current contributions center on marketing, construction administration and contracts. Herb is a Fellow of the American Institute of Architects and serves on numerous professional and public boards and committees.

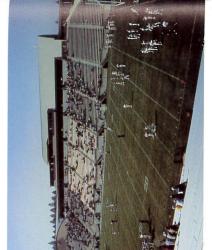


While vision may achieve creative breakthroughs, proper implementation requires concise and thorough attention to detail.

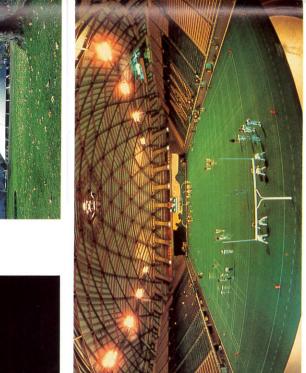
Beyond his architectural accumen, Don Gadbery focuses on master planning and programming because of his vast knowledge and extensive experience in educational facility design. Don and his staff have the expertise to create programs even when programming for certain tasks is unavailable. Maintaining close communication with clients is a crucial part of his responsibility. Any successful architectural team must possess the diversity and depth to accomplish the many tasks related to each project.

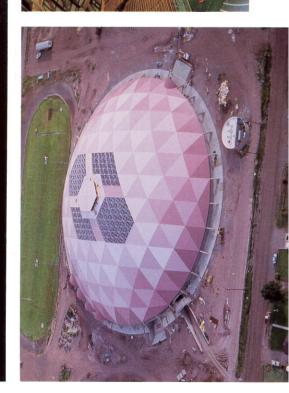
Howell "Chip" Shay is especially adept at determining a building's technological aspects and interpreting them into contract documents. A designer par excellence, he also possesses a diverse architectural background. He continues to expand his experience in military engineering while serving as a Lieutenant Colonel in the National Guard of Arizona. Chip and his team of architects, interior designers and specialists lay the foundations for the actual construction.

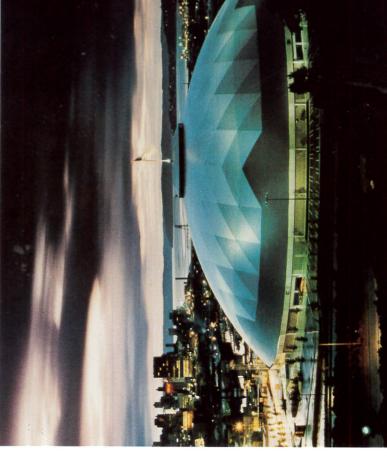


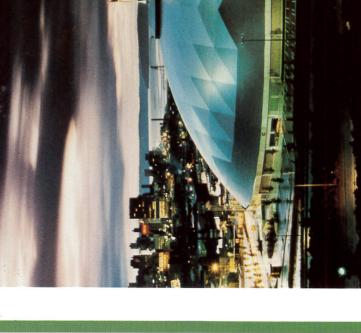












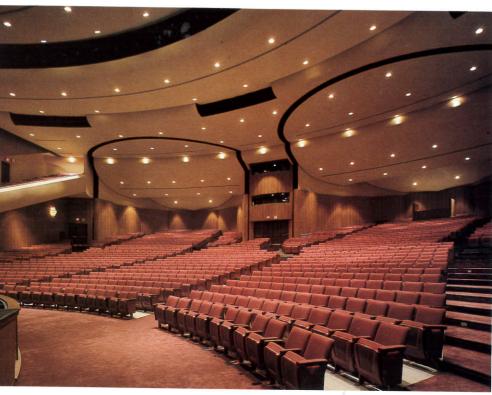


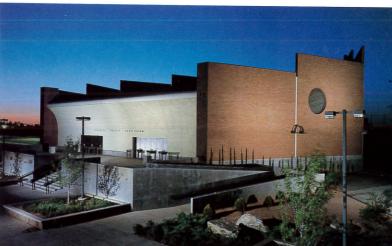
It began with a challenge in the late 1960's: to design an efficient, environmentally From this challenge grew the giant timber dome, the Ensphere. compatible structure to house a football stadium.

Our other work in sports structures includes aquatic centers, gymnasiums, sport and physical activity buildings. Today the Ensphere concept, with its daylighting system, is the current state of the art. Enspheres now serve as sports stadia and convention centers in numerous cities across the United States and Europe.





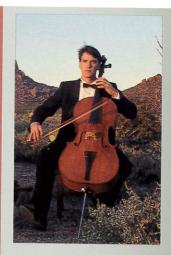








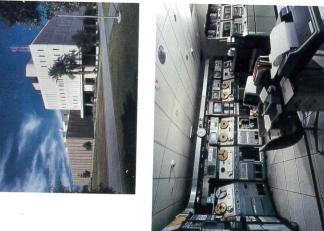
ARTS



Efficient, functional, glamorous and sophisticated are the concepts that define the performing arts centers of RSGS. With superb acoustics and sightlines, convertible from theater to concert halls, our performing arts centers permit the broadest spectrum of events to grace their stages.

We are the originators of the now celebrated TDA, the ultimate technology of auditorium divisibility. Over 50 TDA's have been constructed in the U.S., Canada, Europe and Africa.







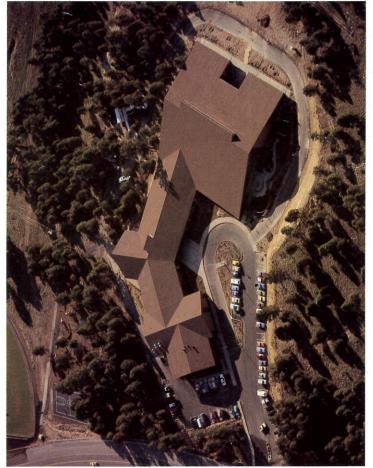






The design of educational structures comprises the majority of our work. Together with faculty, administrative and governing boards, we program and shape educational environments from prekindergarten through university facilities.

Never standing still, we constantly monitor the newest educational developments and integrate these with tradition to create state of the art, highly functional, economically operating and congenial learning and teaching environments.

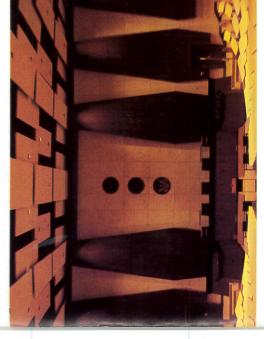




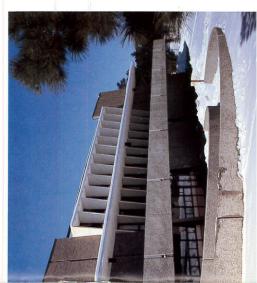




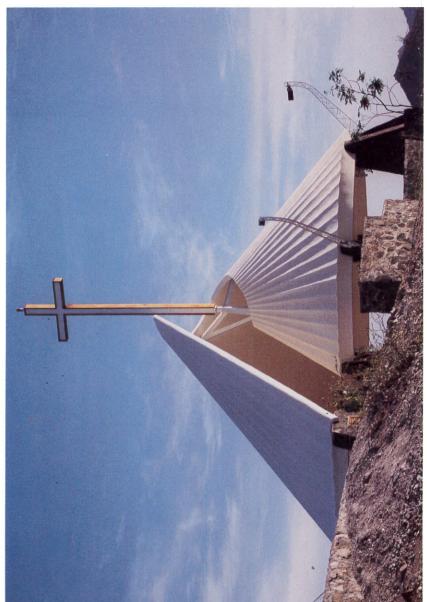


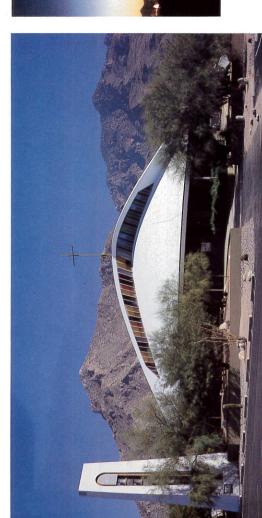




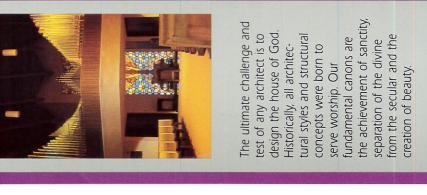




















GENERAL



While we have attained specialist status as architects for educational, performing arts and sports buildings, we design a broad range of structures for many other uses with equal dedication.

These include facilities for commerce, industry, health services, transportation, housing, public safety, communication, research centers, Department of Defense, U. S. Postal Service and Bureau of Indian Affairs.

We also perform environmental and community master planning, forensic investigations of structures as well as historic preservation.

All projects are of equal importance to us and no project is beyond or beneath our capabilities.

ORGANIZATION



Architecture is a creative art and the most accomplished designs represent the inspiration of a single individual. Architecture is also a complex technology and, as such, it must be an orchestrated achievement performed by many individuals.

In our organization, we help formulate your program and we nurture the creation of the conceptual design. Here our buildings gain substance and comprehensiveness as the thought processes of many professionals generate the final drawings and specifications.

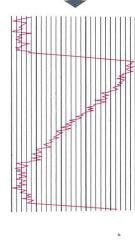
It is this team which guards our clients' budgets and timelines, oversees quality of construction and, as the agent of the owner, delivers the completed structure.



PROGRAMMING

No structure, regardless of size and kind, can be responsibly designed without a precise statement about purpose, quality and appearance. Moreover, most buildings are part of a larger whole, requiring integration and master planning.

Because we are a firm of long-standing, most of our clients delegate programming to us, taking advantage of our experience with function, use and long-range projections. Always under the immediate direction of at least one partner, we draft, propose and refine the building programs for our clients.



ACOUSTICS

RSGS is almost singular in having an in-house division of architectural acoustics. As exemplified in our performing arts centers with their superb acoustics, this expanded capability immeasurably benefits our clients by assuring that the issue of controlling noise and sound transmission is addressed throughout the entire design process.

ARCHITECTURAL RESEARCH

We have been the inventors and innovators of many new architectural and engineering concepts. The Turntable Divisible Auditorium, the Ultra Compact Airport Terminal and the Ensphere System are among our notable achievements. Architectural research, which creates and validates these concepts, accrues to the sole benefit of our clients but is wholly funded by RSGS.







CONCEPT

The conceptual design is the essence of all architecture. It is the one act in which the designer's mind must be purely creative. Here we seek to affirm the architectural philosophy, style and design parameters. Here the personality of the structure is born.



DESIGN DEVELOPMENT

In this phase, the concept is given its many characteristics and attributes. The building spaces, shapes and colors evolve and the structure receives its supporting frame. All and electrical systems are deterphase, our clients receive a precise theoretical replica of their project in the form of plans, illustrations,



major building materials are selected and lighting, acoustical, mechanical mined. Costs and code analyses are conducted. Upon conclusion of this models and descriptions.



CONSTRUCTION DOCUMENTS

The fully developed design is now transformed into constructable technology. All systems are subjected to mathematical analysis. The size of the design team peaks as thousands of components are detailed and hundreds of pages of specifications are written. Costs are re-evaluated and consultants and specialists are fully integrated into the team to make their contribution.



The primary purpose of construction administration is to obtain compliance with plans and specifications. A technical team of in-house and field personnel monitors the progress. Further, we administer pay requests, payments and changes in work.

Completion involves extensive check-out procedures, assembling of warranties and manuals, providing operational training and often assisting in creating public relations literature for our clients.

As a valuable extended service, we conduct one- and two-year inspections to help our clients enjoy the highest possible quality and usefulness of their project.

BIDDING

To obtain the best possible bid, we employ many strategies. We invite contractors and acquaint them in detail with the projects. We conduct extensive pre-bid conferences and site visits. Finally, we administer the bid process.

QUALITY CONTROL

Upon completing the construction documents, our staff scrutinizes them for compliance with the original design and technological correctness. After putting all elements in order, we release the documents for bidding.



WENDELL ROSSMAN and ASSOCIATES ARCHITECTS

Organization and Staff

Principal, Associates, Architects, Engineers, Consultants

Current Projects and Project Summary

Research

Summaries: Completed Projects of Associates

4601 EAST McDOWELL ROAD

PHOENIX, ARIZONA U.S.A.

WENDELL ROSSMAN and ASSOCIATES

Organization and Staff:

Principal: Dr.-Ing. Wendell E. Rossman

Associates: Donald R. Gadbery, C.S.I., Architect

Herbert W. Schneider, A.I.A., Architect

Architects: Sukumar Pal

Charles L. Mason

Engineers: John K. Parsons, P.E., Structural

George T. Dearing, P.E., Air Cond. and Plumbing

William B. Keller, P.E., Electrical

Robert R. Drain, P.E., Air Conditioning

Drafting Staff: 6

Field Inspectors: 4

Administration: 5

Project Associates:

Johannessen & Girand Consulting Engineers, Inc. Phoenix, Arizona

Consultants:

T. Y. Lin - San Francisco, California

Dr. Vern O. Knudsen - Los Angeles, California

Birth

Principal: Dr.-Ing. Wendell E. Rossman Date: 11-21-26

Education: Bachelor of Architecture

University of Alberta, Canada - 1955

Dr.-Ing., THM, Munich, Germany - 1966

Registrations: Alberta, 1956 - Arizona, 1959

Memberships: Phoenix Forward Task Force:

Air Transportation Committee American Institute of Physics Archaeological Inst. of America

International Assoc. of Shell Structures

Prestressed Concrete Institute

Scottsdale Public Schools: Advisory Committee

Associates:

Birth

Donald R. Gadbery

Date: 12-15-32

Date: 7-6-30

Education: Bachelor of Architecture - 1957

Kansas State Univ., Manhattan, Kansas

Registration: Arizona, 1964

Membership: Construction Specifications Institute

Birth

Herbert W. Schneider

Education: Bachelor of Architecture - 1955

University of Illinois

Registrations: Arizona, 1961

Dept. of Defense Fallout Shelter Analyst, 1964

Nuclear Defense Engrg. Prot. Constr., 1964

Memberships: American Institute of Architects

Central Arizona Chap.: President Elect, 1970

A.I.A. Activities:

Director of the Comm. on the Prof. Society

Chairman-Chapter Affairs Committee Director-Arizona Society of Architects Architects:

Birth

Sukumar Pal

Date: 1-1-41

Education:

I.Sc. - University of Calcutta, 1958 B.Arch. (Hons.) - Indian Institute of

Technology, 1963

M.Arch. - University of Oklahoma, 1965

Birth

Charles L. Mason

Date: 11-20-27

Education:

B.S.A.E. - 1950

Chicago Technical College

Engineers:

Birth

John K. Parsons

Date: 12-9-29

Education:

Bach. of Sc. in Engineering - 1952

Loyola University - Los Angeles, Calif.

Master of Sc. in Engineering - 1959 University of Southern California

Registrations: Arizona, Nevada, New Mexico, Texas, California

and Georgia

9-25-25

Memberships:

Prestressed Concrete Institute

American Concrete Institute

International Assoc. of Shell Structures

Consulting Engineers Council

American Society Professional Engineers

American Society Civil Engineers

Structural Engineers of Southern California

Arizona Structural Engineers

Birth

George T. Dearing

Education:

Date:

Bach. of Engineering (Mechanical) - 1949

University of Southern California

Registration: Arizona

Memberships: National Society of Professional Engineers

Arizona Society of Professional Engineers
American Society of Heating, Refrigeration

and Ventilating Engineers

City of Phoenix Bldg. and Safety Advisory Board

Birth

William B. Keller

Date: 7-24-17

Education: Bach. of Sc. in Electrical Engineering, 1949

Case Inst. of Technology, Cleveland, Ohio

Registrations: Arizona, Colorado, Nebraska, Nevada,

New Mexico, Iowa, Ohio, Texas and Utah

Memberships: Illuminating Engineers Society

Institute of Electrical Engineers

Birth

Robert R. Drain Date: 3-18-31

Education: Bach. of Sc. in Industrial Engineering, 1963

Arizona State University

Registrations: Arizona, Nevada and California

(Mechanical)

Memberships: American Society of Professional Engineers

American Society of Heating, Refrigeration

and Air Conditioning Engineers

Arizona Society of Consulting Engineers

WENDELL ROSSMAN and ASSOCIATES

CURRENT WORK

Northern Arizona University - Student Union Bldg. \$	1,300,000
- Dining Hall Facility	700,000
Agua Fria Union High School	1,500,000
Valley National Bank (2 projects)	200,000
Roman Catholic Church, Scottsdale	900,000
Roman Catholic Church, Tucson	700,000
Camp Verde High School	2,500,000
Ecole Polyvalant, Montreal (Assoc.)	2,400,000
Mountain Bell Telephone Building	250,000
Motel - Flagstaff	900,000
Northern Arizona University - Engineering Bldg.	2,400,000
Safford Schools	200,000
Macton Machinery Plant, Connecticut	450,000
4 Auditoriums - Phoenix Union High School	2,600,000
Current Work - 1-1-1970 \$	17,000,000

COMPLETED PROJECT SUMMARY

Telephone	and	Micro	Wave	Buildings:
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Universities: Shops Building, IT - Calgary Law College - Tempe 1,700 Housing - Tempe 6,500 Laboratories: Red Cross Transf Alberta 55 Exper. Station NRC - Alberta 35 Colleges: Arizona Western - Yuma 2,000 Schools: High, Elementary - Alberta 70 High, Elementary - Arizona 1,600 Religious Buildings: Churches - Calgary, Alberta 70 Churches - Phoenix, Arizona 58 Concert Halls: Alberta Jubilee Auditorium (Assoc. Senior Architect, Director/Acoustics) Hospitals: Department of Health - Alberta 800 Baptist Hospital - Yuma 75 Power Plant:	1010	Silono and made water		
Shops Building, IT - Calgary Law College - Tempe 1,700 Housing - Tempe 6,500 Laboratories: Red Cross Transf Alberta Exper. Station NRC - Alberta 35 Colleges: Arizona Western - Yuma 2,000 Schools: High, Elementary - Alberta High, Elementary - Arizona 1,600 Religious Buildings: Churches - Calgary, Alberta Churches - Phoenix, Arizona 58 Concert Halls: Alberta Jubilee Auditorium (Assoc. Senior Architect, Director/Acoustics) Hospitals: Department of Health - Alberta Baptist Hospital - Yuma 75 Power Plant:		Toll Building, Calga	ry \$	5,500,000
Law College - Tempe 1.700 Housing - Tempe 6,500 Laboratories: Red Cross Transf Alberta 55 Exper. Station NRC - Alberta 35 Colleges: Arizona Western - Yuma 2,000 Schools: High, Elementary - Alberta 70 High, Elementary - Arizona 1,600 Religious Buildings: Churches - Calgary, Alberta 70 Churches - Phoenix, Arizona 58 Concert Halls: Alberta Jubilee Auditorium (Assoc. Senior Architect, Director/Acoustics) Hospitals: Department of Health - Alberta 80 Baptist Hospital - Yuma 75 Power Plant:	Univ	ersities:		
Red Cross Transf Alberta Exper. Station NRC - Alberta Colleges: Arizona Western - Yuma 2,00 Schools: High, Elementary - Alberta High, Elementary - Arizona Religious Buildings: Churches - Calgary, Alberta Churches - Phoenix, Arizona Concert Halls: Alberta Jubilee Auditorium (Assoc. Senior Architect, Director/Acoustics) Hospitals: Department of Health - Alberta Baptist Hospital - Yuma Power Plant:		Law College -	- Tempe	450,000 1,700,000 6,500,000
Exper. Station NRC - Alberta 35 Colleges: Arizona Western - Yuma 2,000 Schools: High, Elementary - Alberta 70 High, Elementary - Arizona 1,600 Religious Buildings: Churches - Calgary, Alberta 15 Churches - Phoenix, Arizona 58 Concert Halls: Alberta Jubilee Auditorium (Assoc. Senior Architect, Director/Acoustics) Hospitals: Department of Health - Alberta 80 Baptist Hospital - Yuma 75 Power Plant:	Labo	ratories:		
Arizona Western - Yuma 2,000 Schools: High, Elementary - Alberta 700 High, Elementary - Arizona 1,600 Religious Buildings: Churches - Calgary, Alberta 580 Churches - Phoenix, Arizona 580 Concert Halls: Alberta Jubilee Auditorium (Assoc. Senior Architect, Director/Acoustics) Hospitals: Department of Health - Alberta 800 Baptist Hospital - Yuma 750 Power Plant:				550,000 350,000
Schools: High, Elementary - Alberta 70 High, Elementary - Arizona 1,60 Religious Buildings: Churches - Calgary, Alberta 58 Churches - Phoenix, Arizona 58 Concert Halls: Alberta Jubilee Auditorium 11,00 (Assoc. Senior Architect, Director/Acoustics) Hospitals: Department of Health - Alberta 80 Baptist Hospital - Yuma 79	Coll	eges:		
High, Elementary - Alberta 70 High, Elementary - Arizona 1,60 Religious Buildings: Churches - Calgary, Alberta 58 Churches - Phoenix, Arizona 58 Concert Halls: Alberta Jubilee Auditorium 11,00 (Assoc. Senior Architect, Director/Acoustics) Hospitals: Department of Health - Alberta 80 Baptist Hospital - Yuma 79		Arizona Western -	- Yuma	2,000,000
High, Elementary - Arizona 1,600 Religious Buildings: Churches - Calgary, Alberta 155 Churches - Phoenix, Arizona 580 Concert Halls: Alberta Jubilee Auditorium (Assoc. Senior Architect, Director/Acoustics) Hospitals: Department of Health - Alberta 800 Baptist Hospital - Yuma 750 Power Plant:	Scho	ols:		
Churches - Calgary, Alberta 15 Churches - Phoenix, Arizona 58 Concert Halls: Alberta Jubilee Auditorium 11,00 (Assoc. Senior Architect, Director/Acoustics) Hospitals: Department of Health - Alberta 80 Baptist Hospital - Yuma 79 Power Plant:		112911/ 220110210111		700,000 1,600,000
Churches - Phoenix, Arizona 58 Concert Halls: Alberta Jubilee Auditorium 11,00 (Assoc. Senior Architect, Director/Acoustics) Hospitals: Department of Health - Alberta 80 Baptist Hospital - Yuma 79 Power Plant:	Reli	gious Buildings:		
Alberta Jubilee Auditorium (Assoc. Senior Architect, Director/Acoustics) Hospitals: Department of Health - Alberta Baptist Hospital - Yuma Power Plant:				150,000 580,000
(Assoc. Senior Architect, Director/Acoustics) Hospitals: Department of Health - Alberta 80 Baptist Hospital - Yuma 75 Power Plant:	Conc	ert Halls:		
Department of Health - Alberta 80 Baptist Hospital - Yuma 79 Power Plant:		(Assoc. Senior Arch:	itect,	11,000,000
Baptist Hospital - Yuma 75 Power Plant:	Hosp	oitals:		
				800,000 750,000
Gas Turbine, H. of A Alberta 59	Powe	er Plant:		
Gas Idibility 0. 01 110		Gas Turbine, U. of	A Alberta	550,000

Residences, Apartments:

Alberta Arizona	\$	400,000 800,000
		200,000
Manufacturing Plants, Warehousing:		
Alberta Arizona		1,400,000 150,000
Office Buildings:		
Calgary, Alberta State, Private - Arizona		250,000 850,000
Banks:		
Valley National Bank and Guaranty Bank - Ari		750,000
Hotels, Clubs:		
	on Mexico enix, Arizona	350,000 350,000 650,000

(Projects listed for Alberta are by W. Rossman, Senior Architect, Alberta Government)

PAPERS and ARTICLES

Design of Acoustics, A.S.A.

Objective Measurements

Testing and Tuning Procedure

Acoustical Design of the ASA, (J.A.S.A., & Inst. for Radro Engineers)

Acoustics and Architecture in Auditorium Design, (Elserver Publishing Co., Holland)

A Walk Through Hierapolis (Builder/Architect)

The Design of Auditoriums (Arizona Architect)

Multi-Use Learning Center (Ford Foundation)

The Effective Architect (Prentice-Hall, Inc.)

Rossman & Fayers

Rossman & Fayers

Rossman & Fayers

Rossman, Fayers, Steinbrecher, Northwood and Stevens

Rossman

Rossman

Rossman

Rossman

Rossman

RESEARCH

Nearly one-third of the total energies of Rossman and Associates are devoted to research of specific problems in planning and building. The research is usually concentrated in areas where new, innovative approaches are needed and where practical solutions must be found.

Beginning in 1963, Research Project R 641 concerned itself with the divisibility of the assembly building. The project resulted in a new kind of structure: the TDA (Turntable Divisible Auditorium). By the close of 1969, three TDA's were under construction and over 15 are in the planning stages. Patents have been granted in 5 countries. The research continues with the adaptation to numerous types of assembly buildings from convention centers to churches.

The most extensive research project to this date, R 661, concerns passenger air terminals and airport planning. The project was prompted by the interest in the subject since for no other modern functional building complex appeared there to be more public rejection and irritation.

The project began with the application of basic, proven planning parameters. At the beginning of 1970, the enquiry had reached every facet of airport planning. Several significant innovations and alternatives have emerged so far. As a by-product, an aircraft lifting device (Lift Sled) was created.

COMPLETED PROJECT SUMMARY - Donald R. Gadbery

Telephone	and	Micro	Wave	Buildings:
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		5	
	Western States Telephone Continental Telephone	- Arizona \$ - New Mexico	400,000 350,000
Labo	ratories:		
	Testing Laboratory General Electric Plant	- Phoenix - Phoenix	260,000 100,000
Scho	ols:		
	Elementary	- Phoenix	1,050,000
Reli	gious Buildings:	A U	
	Churches	- Arizona	320,000
Hosp	itals, Medical Buildings:		
	Nursing Home Dental Arts Building Medical Pavilion	- Scottsdale - Phoenix - Phoenix	50,000 300,000 320,000
Resi	dences, Apartments:		
	Apartments Subdivision Residences Residences	- Phoenix - Kearney - Arizona	14,000,000 2,400,000 200,000
Merc	antile Buildings:		
	Arizona		2,030,000
offi	ce Buildings:		
	Phoenix, Arizona		1,500,000
Bank	S:		
	Guaranty Bank Bldg. Arizona Bank Bldg. 1st National Bank	- Phoenix - Phoenix - Tucson	2,500,000 3,000,000 230,000
Club	DS:		

Service Club - Luke Air Force Base

500,000

COMPLETED PROJECT SUMMARY - Herbert W. Schneider

Telephone	and	Micro	Wave	Buildings:
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TeT	sphone and micro wave bullur	ings:	
	Mountain States Telephone Western States Telephone		\$ 500,000 50,000
Univ	versities:		
	Engineering Bldg. Remod. Wind Tunnel Building and	- Tempe	400,000
	Installation Restoration of "Old Main"	TempeTempe	150,000 350,000
Scho	ools:		
	Elementary	- Arizona	2,150,000
Rel:	igious Buildings:		
	Churches	- Arizona	530,000
Miss	sle and Solar Facility:		
	General Electric	- Phoenix	120,000
Apa	rtments, Residences:		
	Apartments Residences	- Phoenix - Arizona	3,000,000
Man	ufacturing Plants, Warehousi	.ng:	
	EMP Electronics, Inc.	- Tempe	150,000
Mer	cantile:		
	Arizona		350,000
Rec	reation:		
	Phoenix, Arizona		500,000
Off	ices:		
	Arizona		300,000

COMPLETED PROJECT SUMMARY - Sukumar Pal

Universities:

Univ. of Bhubaneswar	- India \$	300,000
Library (Public)	- Bhubaneswar	400,000
Indian Inst. of Tech.	- Kharagpui	700,000

Mercantile:

Montgomery Ward	-	California	10,000,000
Chain Drugstores (Thrifty)	-	California	2,000,000
Seeman's Warehouse	-	Los Angeles	5,000,000

Industrial:

Boeing	Aircraft - Seattle,	Washington	
747	Mock-Up Building		5,000,000
747	Assembly Plant		15,000,000