

HB

129

HOUSE COMMITTEE REPORT

(7)

Date Referred: January 30, 1989

FURTHER REFERRALS: FINANCE

Date of Committee Action: 3/30/89

The HEALTH, EDUCATION & SOCIAL SERVICES Committee recommends that:

HOUSE BILL NO. 129

[APPROP: U OF A CAPITAL PROJECTS]

"An Act making a special appropriation to the University of Alaska for construction of capital projects; and providing for an effective date."

[X] be replaced with CSHB 129 (HESS) [] the same title
[X] a new title

[] have attached amendment(s)

- [X] do pass
- [] do not pass
- [] no recommendation
- [] individual recommendations
- [] additional referral to the _____ Committee

ADOPTS: _____ letter of intent

ATTACHES NEW FISCAL NOTE(S):

- [] fiscal impact
- [] zero fiscal note
- [] zero with analysis

APPROVES PREVIOUS:

- [] fiscal note(s) published: _____
- [] zero fiscal notes(s) published: _____

SIGNING DO PASS:

J. Ellis
Mark Boyer
Peter J. ... HESS CS with out amendments
...
...

SIGNING OTHER THAN DO PASS:
(Do Not Pass, No Recommendation, Amend)

Cheri Davis - Do Not pass

J. Ellis
 Chairman's signature

A M E N D M E N T

OFFERED IN THE HOUSE

BY ELLIS

TO: HB 129

Page 1, line 10:

Delete "\$29,025,000"

Insert "\$32,525,000"

Page 1, after line 24:

Insert "University of Alaska, Anchorage

Land Acquisition

3,500,000"

Change funding information to reflect the amendment.

UNIVERSITY OF ALASKA ANCHORAGE
DISTRICT PROJECTS

1989 LEGISLATIVE PROGRAM

HOUSE DISTRICT 10
SENATE DISTRICT F

PROJECT TITLE: UAA CAMPUS LAND ACQUISITION

1989 REQUEST: \$ 3,500,000.00

PROJECT COST: \$ 3,500,000.00

ESTIMATED ANNUAL O & M COST: NO CHANGE

DESCRIPTION/JUSTIFICATION:

Project Scope:

Purchase additional property.

Current Status:

The purchase of the additional property is essential to the mission of the new University of Alaska Anchorage established by the Board of Regents in the Spring of 1986.

Project Plan:

The University has identified two major parcels of property for purchase located on the north side of campus adjacent to the 10.7 acres of park land, to be transferred to the University by the Municipality of Anchorage.

Acquisition of 19.12 acres of former Public Health Service land north of the main campus is essential to development of a new core area identified by the UAA Master Plan due to its proximity to the library and connecting east and west campus for an orderly future growth of this institution. The acquisition of this parcel plays an important role in the land exchange between the University of Alaska and Municipality of Anchorage approved by the municipal voters in Oct. 1988.

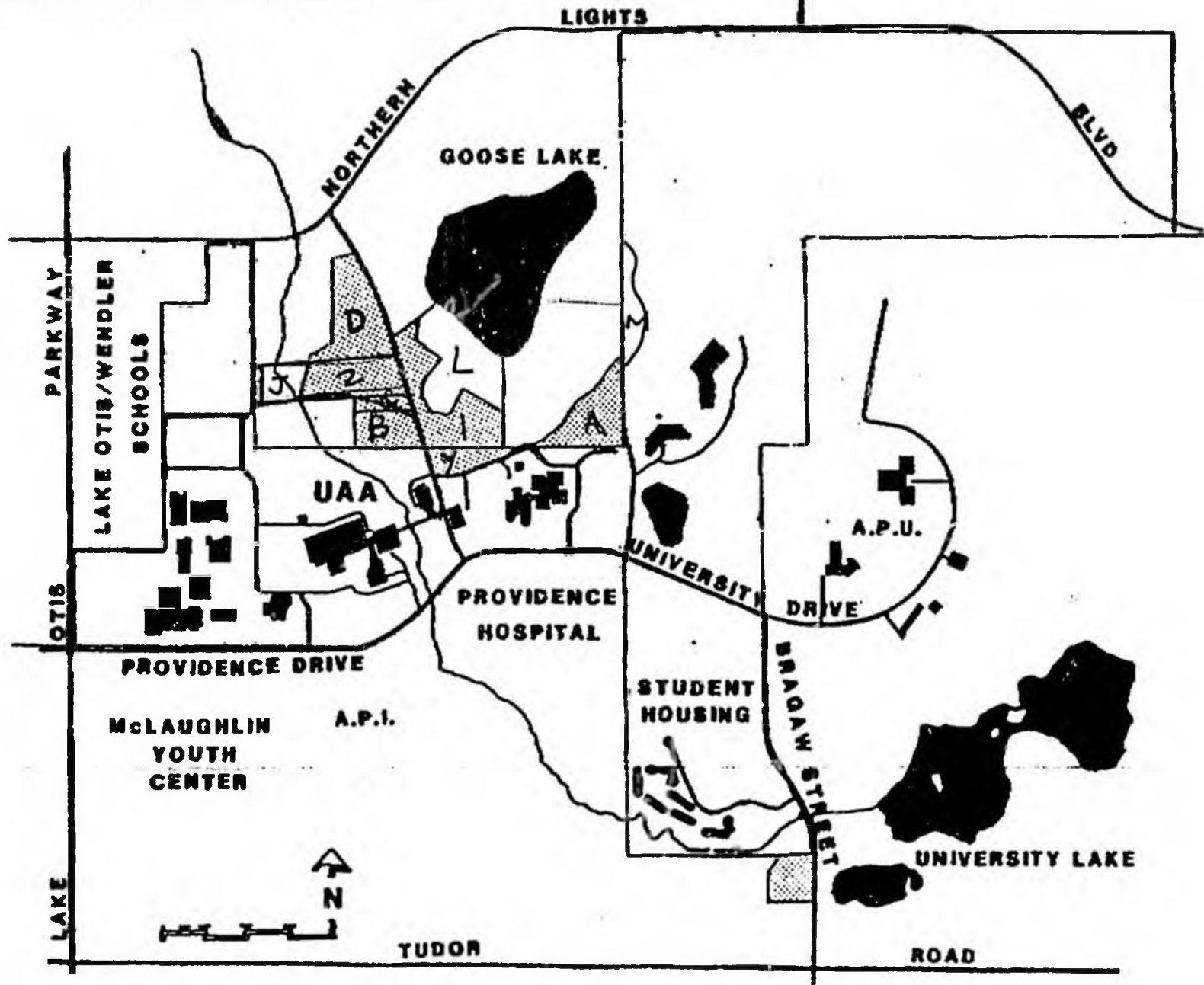
PROJECT READINESS:	Execute Land Contracts 7/1/89
ESTIMATE NO. OF PEOPLE EMPLOYED:	3
PERCENT PROJECT COMPLETION BY END OF 1989:	100%

STAFF CONTACT: WENDY PEDMAN 474-7562

SUZANNE TRYCK 278-6483



UAA LAND ACQUISITION



Funding Information
General Fund \$29,025,000
Other Funds -0-
\$29,025,000

BY BOYER, KOPONEN, M. DAVIS,
SPOHNHOLZ, MILLER, AND SHARP

1 IN THE HOUSE

2

HOUSE BILL NO. 129

3

IN THE LEGISLATURE OF THE STATE OF ALASKA

4

SIXTEENTH LEGISLATURE - FIRST SESSION

5

A BILL

6

For an Act entitled: "An Act making a special appropriation to the Univer-

7

sity of Alaska for construction of capital projects;

8

and providing for an effective date."

9

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

10

* Section 1. The sum of \$29,025,000 is appropriated from the ~~general~~ *rail belt energy*

11

fund to the University of Alaska for construction of the following capital

12

projects in the amounts listed:

13

PROJECT

AMOUNT

14

Statewide Programs and Services

~~\$4,125,000~~
\$32,525,000

15

Butrovich Building; Phase V

16

University of Alaska, Fairbanks

17

Fishery Industrial Technology

18

Center (Kodiak); Phase III

5,900,000

19

University of Alaska, Fairbanks

20

Natural Sciences Facility; Phase I

10,000,000

21

University of Alaska, Anchorage

22

Classroom Laboratory Building

7,000,000

23

University of Alaska, Fairbanks

24

Fairbanks Downtown Center; Phase II

2,000,000

25

* Sec. 2. The appropriation made by this Act is for capital projects

26

and is subject to AS 37.25.020.

27

* Sec. 3. This Act takes effect July 1, 1989.

Alaska State Legislature

REPRESENTATIVE
MARK BOYER



House of Representatives

FAIRBANKS

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FAIRBANKS, ALASKA 99701
(907) 456-6473

JUNEAU

PO. BOX V
STATE CAPITOL
JUNEAU, ALASKA 99811
(907) 465-3466

MEMORANDUM

TO: Representative Mike Davis
Representative Niilo Koponen
Representative Mike Miller
Representative Bert Sharp
Representative Ann Spohnholz

FROM: Representative Mark Boyer *MB*

DATE: February 15, 1989

SUBJECT: HB 129

The attached is information received from the University on HB 129, "An act making a special appropriation to the University of Alaska for construction of capitol projects."

Thank you.

MB/NG/bhn

Attachment

UNIVERSITY OF ALASKA
STATEWIDE PROGRAMS CAPITAL REQUESTS

1989 LEGISLATIVE PROGRAM

PROJECT TITLE: John Butrovich Building Fairbanks - Phase V
FY90 REQUEST: \$4,125,000
TOTAL PROJECT COSTS: \$23,886,500
ESTIMATED ANNUAL O&M COST: \$227,500 Phase V
\$455,000 Phase IV and V FY91

DESCRIPTION/JUSTIFICATION:

The John Butrovich building, designed in early 1984 as a 93,000 gross sq.ft./68,900 assignable sq.ft.

The ongoing construction of the facility has been proceeding in phases to meet the funding capital received for the project. Five appropriations, totalling \$14,686,500, have been received from FY81 through FY87. Phase IV of the project, completed in September 1988, enabled some of the components of Statewide Programs and Services to occupy the completed third floor. (88 people occupy this floor). The completion of the remaining two floors in the building will free up 22,200 net assignable square feet in Bunnell and Gruening buildings for critical UAF academic use.

Phase V construction will finish the second floor level (32,500 gross sq.ft./24,300 net assignable sq.ft.) and will also complete the rest of the sitework, including parking lot pavement, sidewalks, exterior lighting and landscaping. The finished second floor of the building will be occupied by Statewide Finance and UACN office personnel (85 workstations) and associated support areas, including conference rooms, UACN training rooms, documentation room, an information center, employee lounge/lunch facility, and the building receiving/storage area.

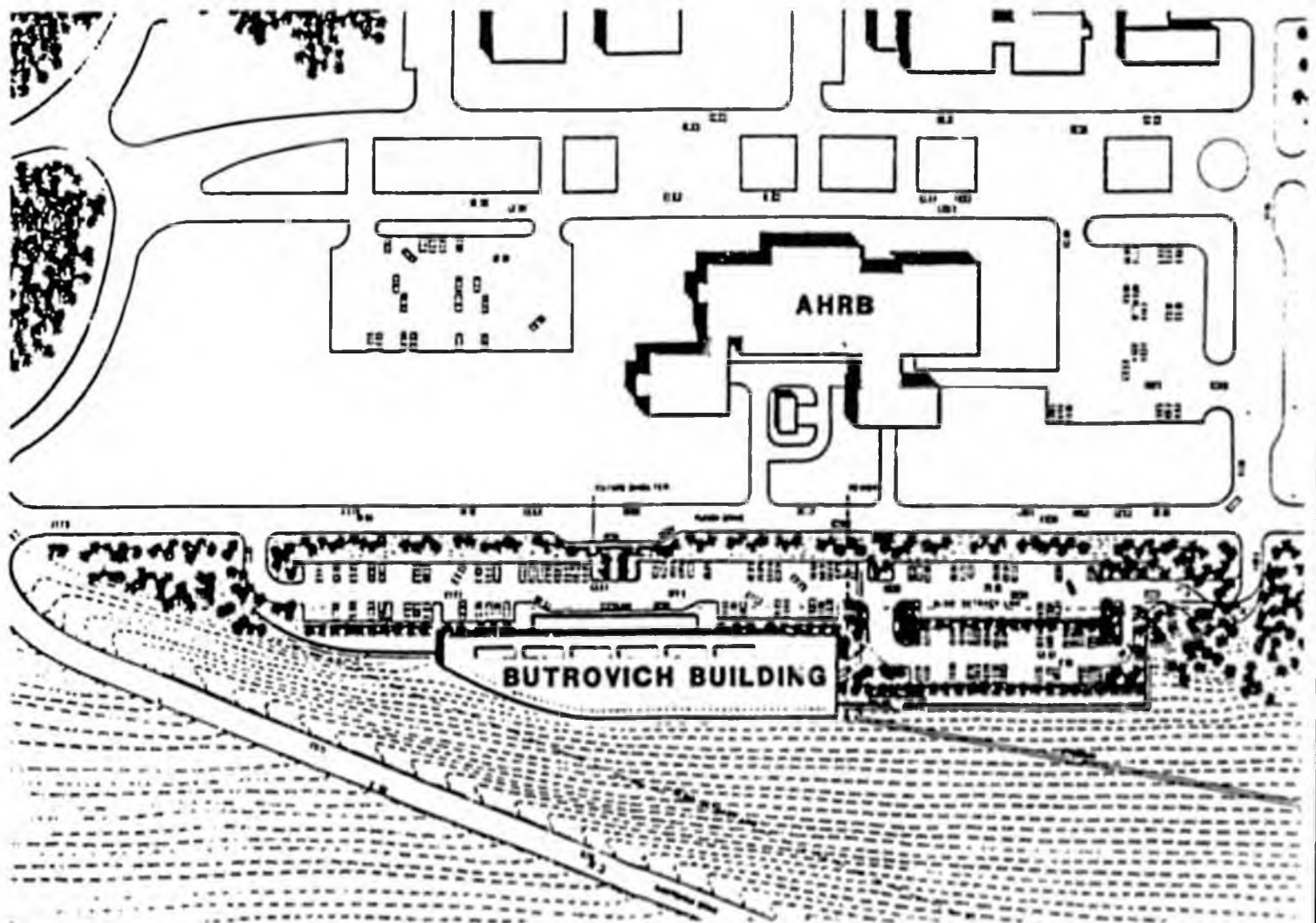
Phase V construction, if bid in October 1989, will be ready for occupancy by early Fall 1990.

PROJECT READINESS: Bid ready, 9/89 Phase V construction.
TOTAL NO. OF WORKERS EMPLOYED: 70.
PROJECT COMPLETION BY END OF FY90: 70% of total programmed facility.

STAFF CONTACT: Wendy Redman 474-7582
Suzanne Tryck 278-5423
Jerry Neubert 474-7040



View from South West



CAPITOL REQUEST

PROJECT TITLE: Fishery Industrial Technology Center
1989 REQUEST: \$5,900,000
PROJECT COST: \$9,300,000
ESTIMATED ANNUAL O & M COST: \$ 185,640
DESCRIPTION/JUSTIFICATION:

Alaska's fisheries, both marine and freshwater are the STATE'S most VALUABLE renewable resource. The use of these resources for commercial, subsistence, and recreational purposes plays a major role in the lifestyle and economy of the State.

The commercial fishing industry directly employs more than 40,000 individuals with a commercial harvest of approximately 100 million to the fishermen and \$1.5 billion to the processors. The Magnuson Fisher Conservation Act of 1976 places a potential harvest of over 4.2 billion pounds of new fisheries within the reach of Alaska fishing industry. This commitment, when fulfilled, will create a substantial amount of additional employment in the State, both directly in the fishing industry and indirectly in supporting industries.

The Fishery Industrial Technology Center (FITC) is charged with providing the technical and scientific support needed to enhance the State fishing industry's competitive edge. This facility comprises specialized food science and technology space with support laboratories.

Many technical needs currently face the seafood industry for rational growth and for the STATE to receive MAXIMUM benefits from its valuable renewable resources.

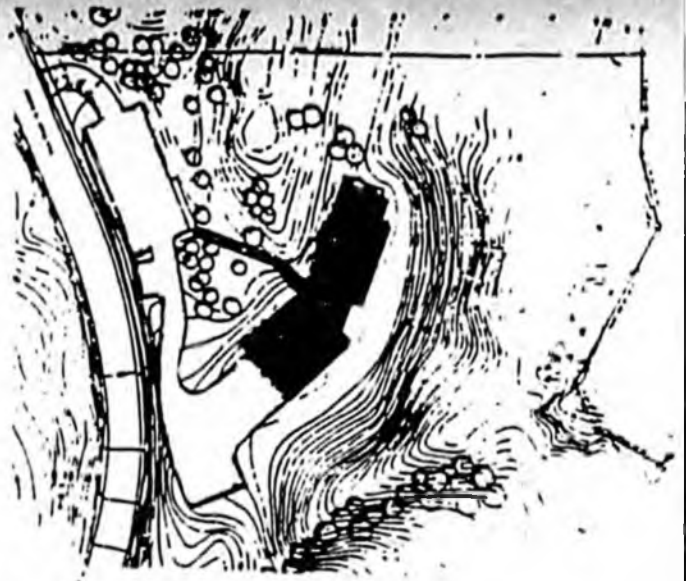
Planning and Design Funds were received in FY85. Phase I received \$1,000,000 in FY87 for Sitework. Phase II received \$1,000,000 for a Shell Package in FY89. Phase III is REQUESTING \$5,900,000 in FY90 to COMPLETE the building with an additional \$900,000 needed in FY91 for equipment and furnishings.

PROJECT READINESS: March 1989
ESTIMATED NO. OF PEOPLE EMPLOYED: 110
PERCENT PROJECT COMPLETION BY END OF 1989: 34%

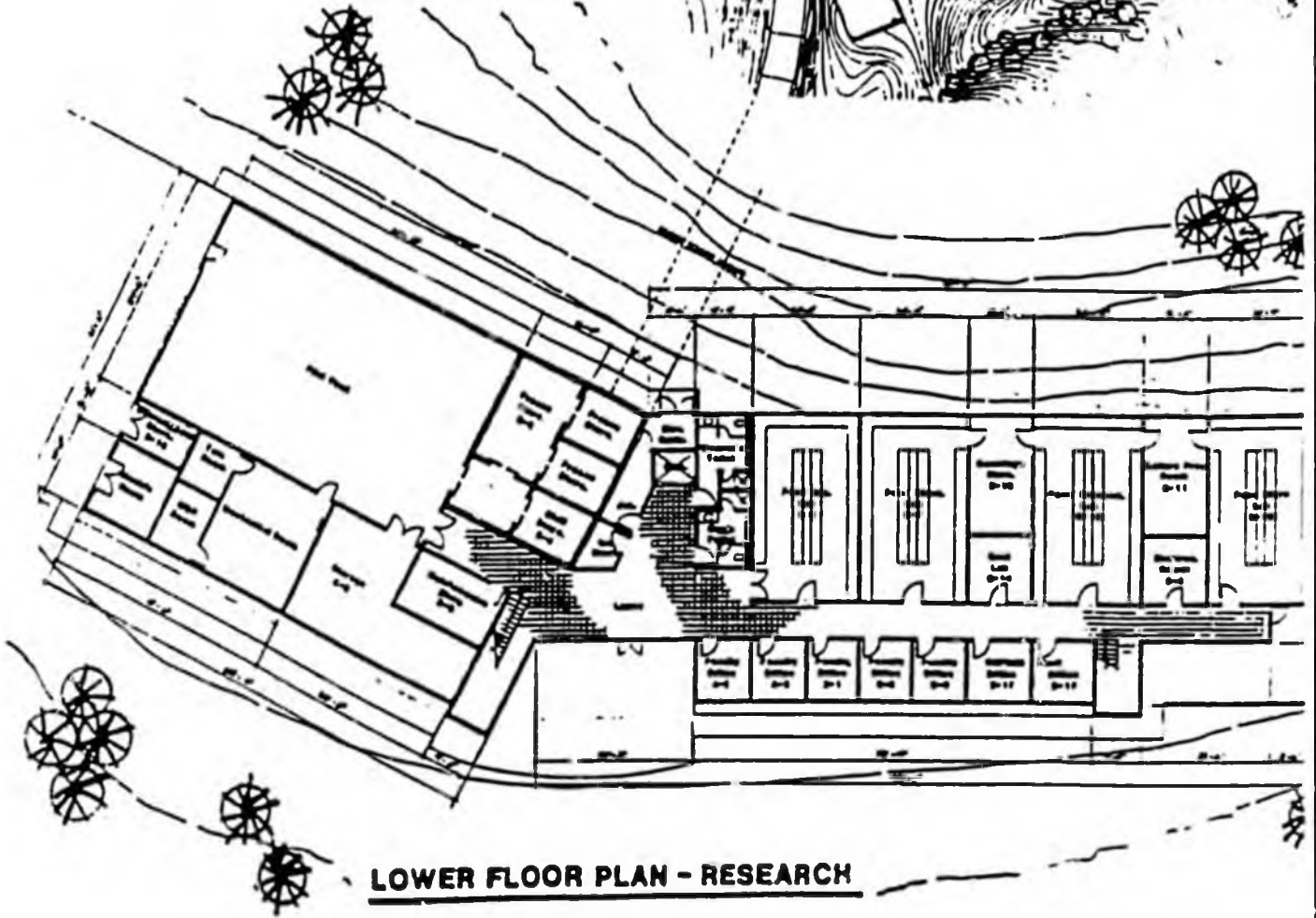
STAFF CONTACT: WENDY REDMAN 474-7882

SUZANNE TRYCK 278-6433





SITE PLAN



LOWER FLOOR PLAN - RESEARCH



FISHERY INDUSTRIAL TECHNOLOGY CENTER

AREAWIDE CAPITAL REQUESTS

PROJECT TITLE: UAA CLASSROOM/LABORATORY BUILDING
1989 REQUEST: \$7,000,000.00
PROJECT COST: \$19,900,000.00
ESTIMATED ANNUAL O & M COST: \$630,000.00
DESCRIPTION/JUSTIFICATION:

There is a shortage of space on the UAA Campus. In 1986 UAA lost 22,000 square feet of Laboratory/Classroom/Office space with the removal of the condemned wooden buildings, G, H, and I. This year, to meet the demand and to fulfill accreditation requirements, the Consortium Library expanded into 10,000 square feet of space which was currently utilized as classroom/office space. These functions had to be merged into existing facilities. The design of this facility will be bid-ready in January.

This facility will provide approximately 84,209 square feet of academic classroom, laboratory, office and student service space. It will provide a total of 25 new laboratories, classrooms and seminar classrooms for the University of Alaska Anchorage. Three of the classrooms provided will be tiered lecture halls. This will allow UAA to teach larger class sections; therefore, reducing the cost of delivering classes taught in these rooms.

This facility is necessary to meet the growing student demands of UAA. The instability of the economy in Anchorage places a greater responsibility on the University's community roll. There is an increased demand of the unemployed seeking new career fields and of the younger students who's family no longer can provide the support to send them to schools outside the state.

The facility will provide a new major entry to the western side of the University of Alaska Anchorage Campus. A bridge will connect this facility to the existing Sports Center Complex. This bridge will tie the University of Alaska Anchorage into one physically united campus. Students will be able to walk in an enclosed facility from the new Classroom/Laboratory Building all the way across campus to the UAA Science Building.

Phase I of this project received \$1,100,000 in FY85 for design and Phase II received \$2,000,00 in FY87 for construction of major utility upgrade.

PROJECT READINESS: Bid Ready: 1/89
ESTIMATE NO. OF PEOPLE EMPLOYED: 135
PERCENT PROJECT COMPLETION BY END OF 1989: 60% (100% by June 1990)

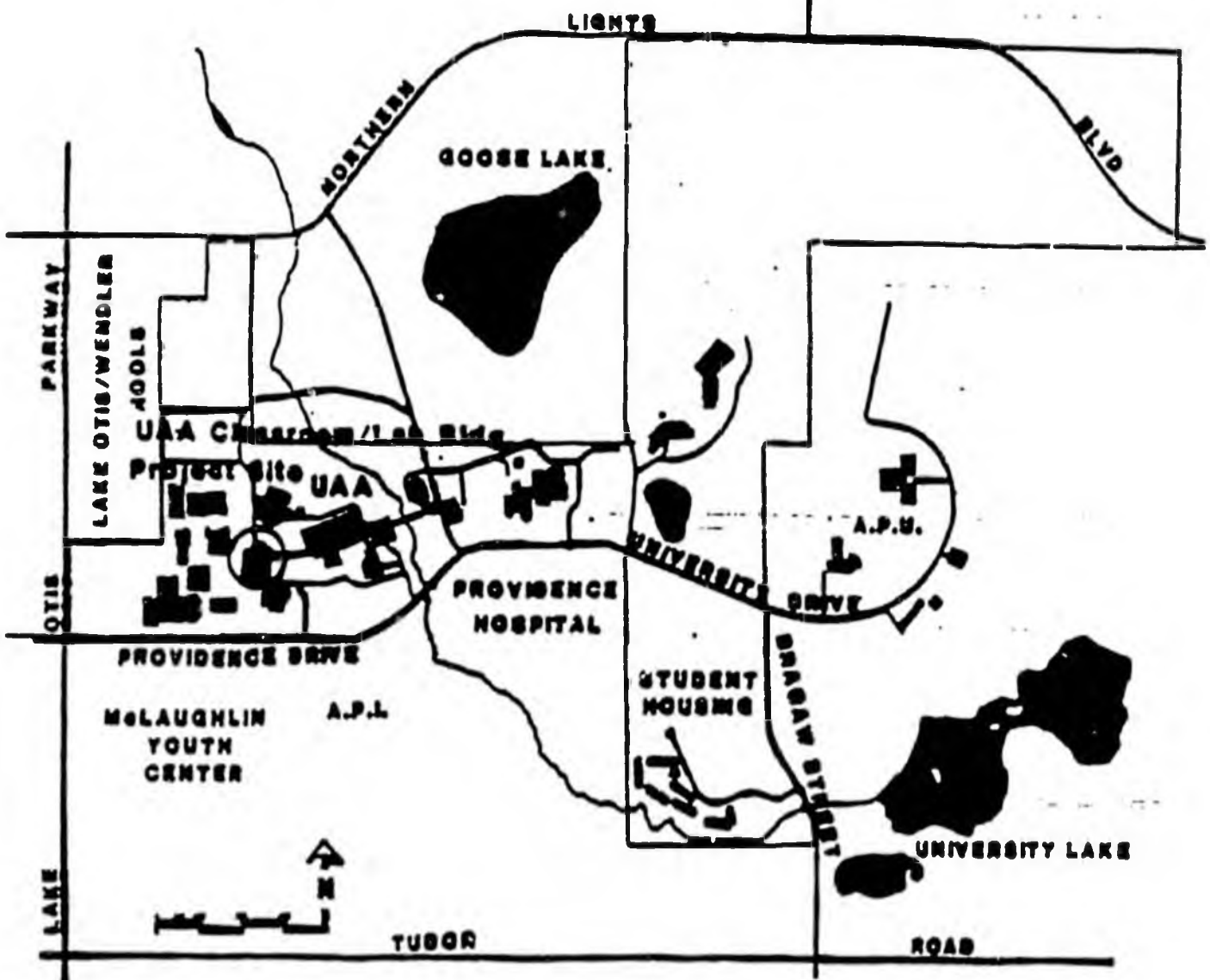
STAFF CONTACT: WENDY REDMAN 474-7882

SUZANNE TRYCK 278-8488





UAA CLASSROOM/LAB BLDG.



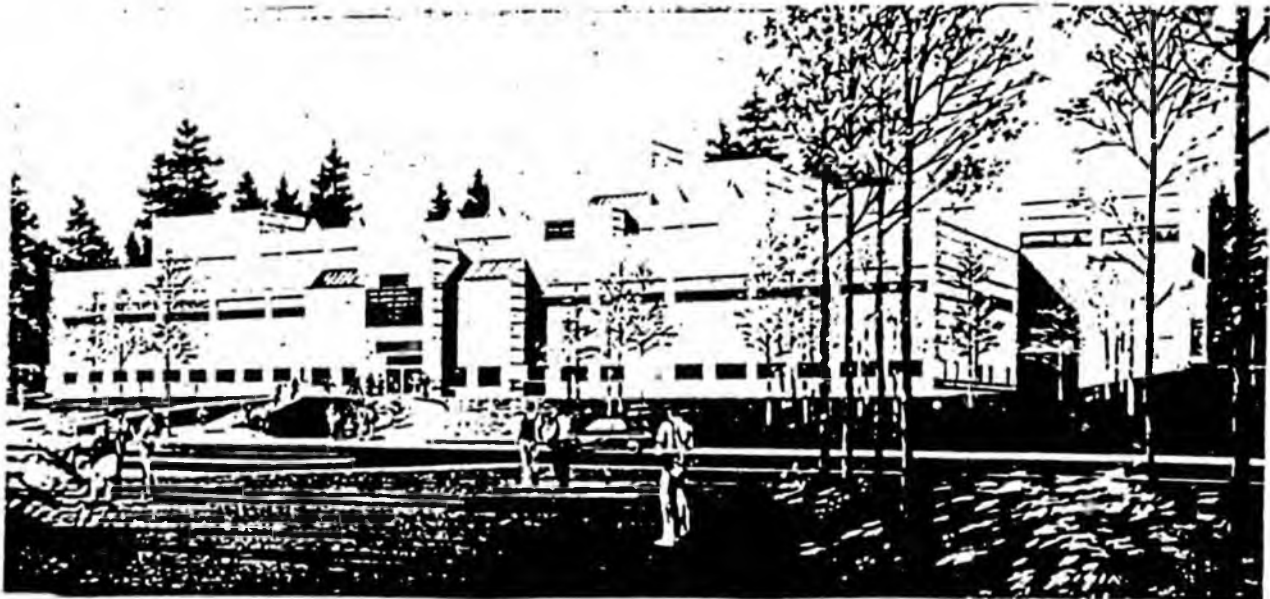
Areawide Capital Requests

Project Title:	UAF NATURAL SCIENCES FACILITY Phase I
1989 Request:	\$10,000,000
Project Cost:	\$27,967,400
Estimated Annual O&M Cost:	\$50,000/yr. (Phase I)

Description/Justification:

For several years, the University of Alaska Fairbanks has requested funding for the Natural Sciences Facility. This 119,797 sq. ft. facility would provide 64,175 assignable square feet of classroom, laboratory, and office space for the expansion of instruction and research in geology, petroleum geology, geophysics, chemistry, and physics. The facility will also allow for the expansion of programs in life sciences, liberal arts, and business management into space previously occupied by these departments in other campus facilities.

Previous appropriations have funded the planning and design of this \$27,967,400 facility. Construction documents are completed and could be available for bidding on short notice. This appropriation would be the first in a two-phase construction process. In Phase I, the site is prepared, a utilidor is extended to serve the site, and the building's foundation, structure, and exterior closure are completed. In Phase II, the building's mechanical, electrical & conveying systems, finishes and equipment are completed.



Project Readiness:	Bid Ready: Summer 1989
Est. No. of People Employed:	150
Project Complete by 12/89:	30% (100% by 12/90)
Staff Contact:	Gerald V. Neubert 474-7040

UNIVERSITY OF ALASKA
STATEWIDE PROGRAM CAPITAL REQUESTS

1989 LEGISLATIVE PROGRAM

Project Title : UAF Downtown Center
School of Continuing Education - Phase II
FY90 Request : \$2,000,000.00
Total Project Cost : \$6,261,000.00
Estimated Annual O&M Costs : \$ 120,000.00 (Phase II Area)
\$ 164,000.00 (Phase I Area)

DESCRIPTION/JUSTIFICATION

The Phase I construction of the UAF Downtown Center was completed in May, 1988. Phase I fulfilled the first portion of a long-range plan for the University to develop a stabilized environment in downtown Fairbanks area that provides community-oriented career/vocational training.

The master plan by the University envisioned the programs supplied by this facility as being "dynamic" and "community-driven". The flexibility of the complex to fulfill that criteria is attractive to UAF. Further UAF supports this request to complete the long-range plan, with the assurance that revisions in programs instigated because of restructuring can be accommodated. According to the master plan for UAF, the completed facility (Chena and Lathrop Buildings) would fulfill project space requirements until 1992.

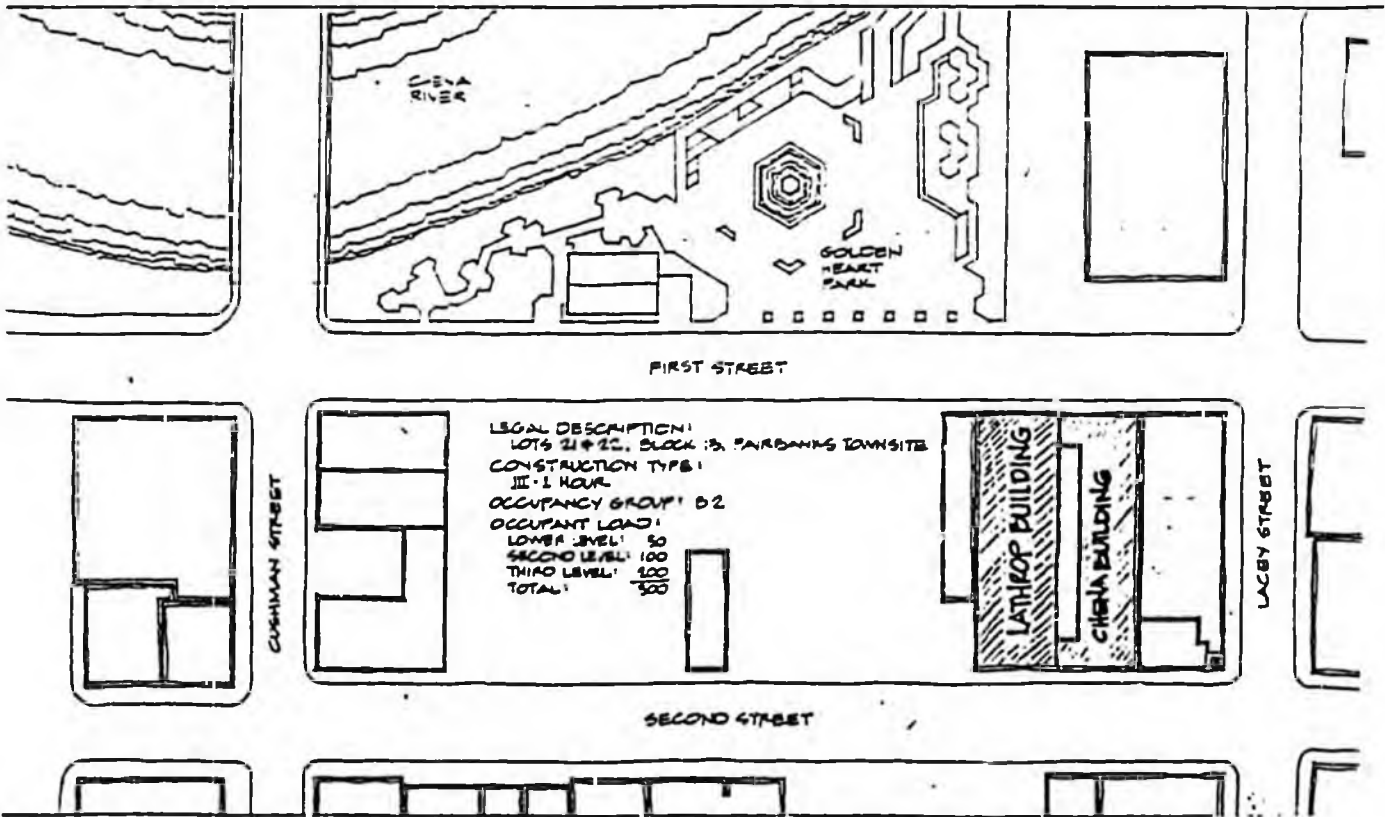
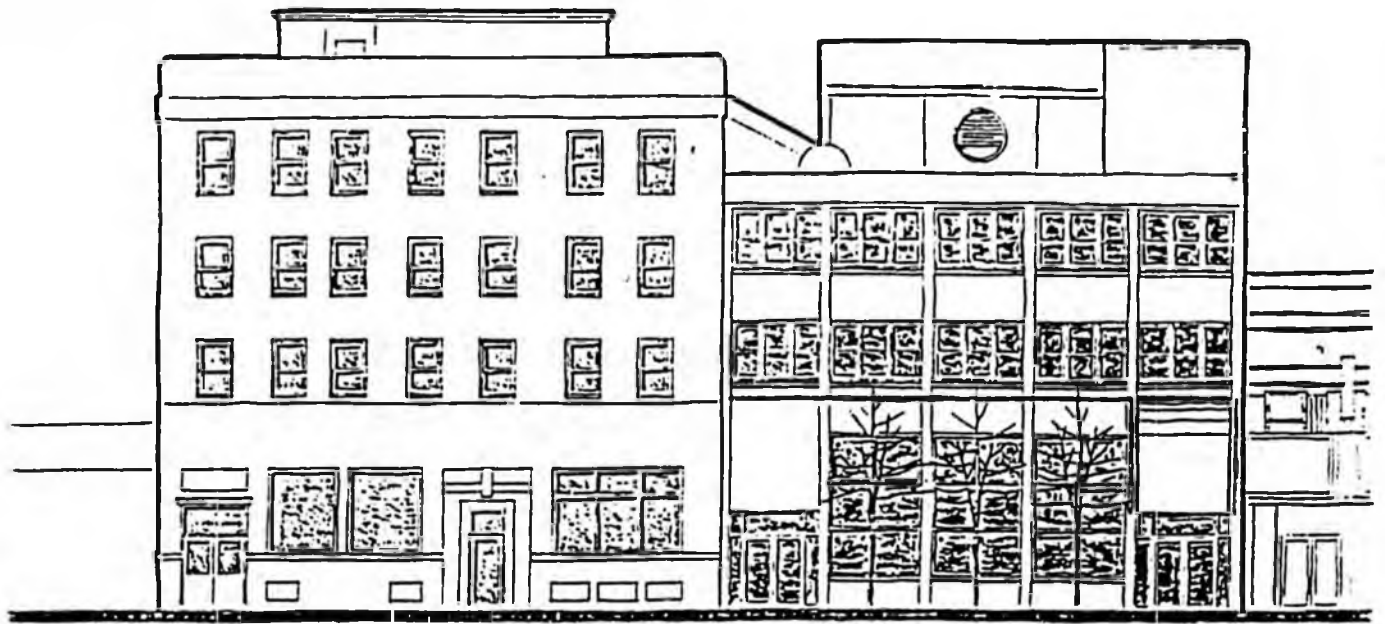
Construction of new buildings is difficult to justify when existing facilities are available for renovation. The dollars spent to refurbish and revitalize this complex will benefit downtown Fairbanks as well as the University. The downtown business community benefits from convenient cost-effective access to education and training, and the additional people that will be circulating in the downtown area while attending classes. Economic stimulation of the core is seen as vital for Fairbanks for the foreseeable future.

A portion of the Chena Building was leased to UAF in Phase I. A portion of the Lathrop Building will be leased to UAF in Phase II.

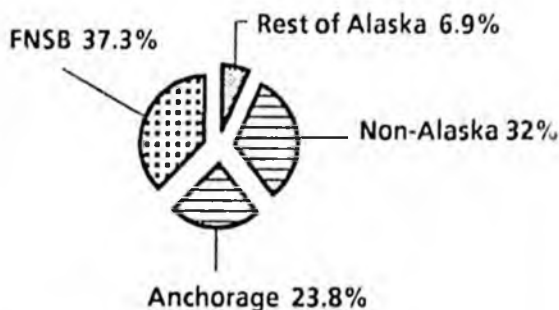
The 1987-88 Phase I work in the Chena Building addressed a complete upgrade of the primary building systems (heating, water, steam, waste, electrical, and ventilation), building-wide circulation (vertical and horizontal), and the installation of new interior walls and finishes on the 2nd and 3rd floors for the UAF lease.

The Phase II request will renovate the Lathrop Building in a similar manner and complete areas in the Chena Building not previously renovated. General classroom space, classroom/laboratory space, computer laboratory space, and administration/faculty offices are programmed for this construction.

Project Readiness : Bid Ready February 1990
Estimated No. of People Employed : 150
Percent Completed by the End of 1989 : 25% (Phase II work)



Non-Wage Expenditure Patterns of UAF



Approximately 29.3 percent or \$29.9 million of the \$102.5 million of UAF's total income was spent on goods, services and other non-wage items. Of this \$29.9 million, 37.3 percent or \$9.99 million was spent in the Fairbanks North Star Borough. With the multiplier effect*, economic impact of direct non-wage expenditures within the borough is estimated at \$16.07 million, using 1985 figures.

(* A 1.44 service sector activity multiplier was used.)

Secondary employment impact of UAF*

Secondary employment impact as a function of university, staff, student and visitor expenditures.

Jobs



Spending by the University of Alaska Fairbanks and its faculty, staff, students and their visitors created 2,524 jobs in the private sector. In addition, UAF is the direct employer of 1,860 personnel for a total impact of 4,384 jobs.

*based on 1985 figures

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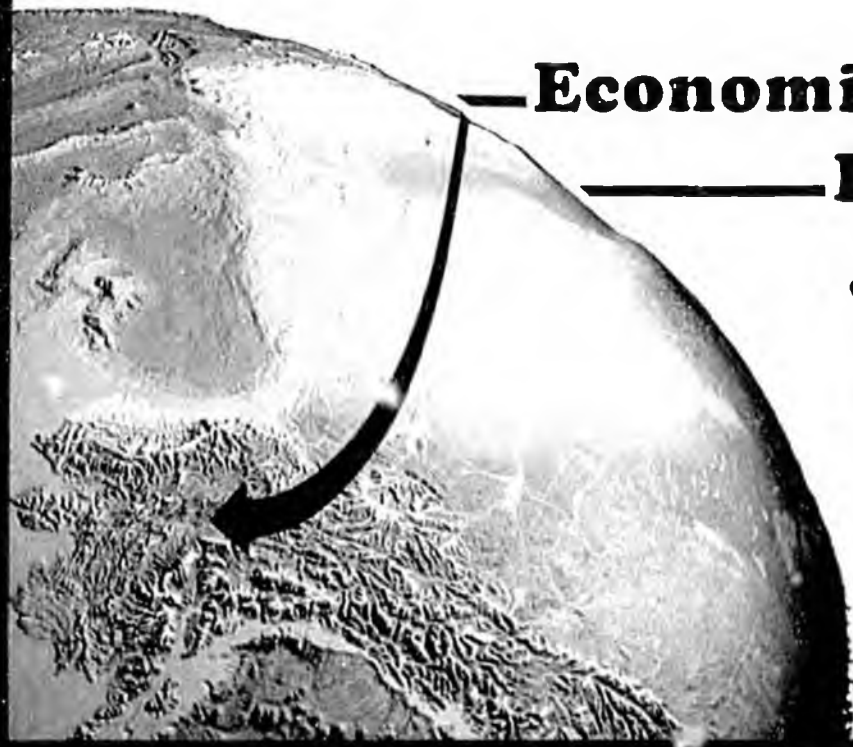
Economic

Impact

of the

University of

Alaska Fairbanks



The University of Alaska, Fairbanks is an integral part of the Fairbanks community. UAF takes seriously its land-grant responsibilities of teaching, research and public service. Throughout the 70 years in which UAF has been an active member of the Fairbanks community, UAF has attracted talented faculty members and researchers who have brought international attention to Fairbanks. These researchers have helped UAF evolve into a major research university with a strong national and international reputation in the areas of marine science, upper atmosphere, physics, geology and the arctic ecosystem.

It is because of this expertise that UAF faculty have obtained highly competitive research grants. These grants provide money for salaries, supplies and equipment which contribute to the economic wellbeing of Fairbanks. Research expenditures approximate \$40 million, with two-thirds of this coming from grants and contracts.

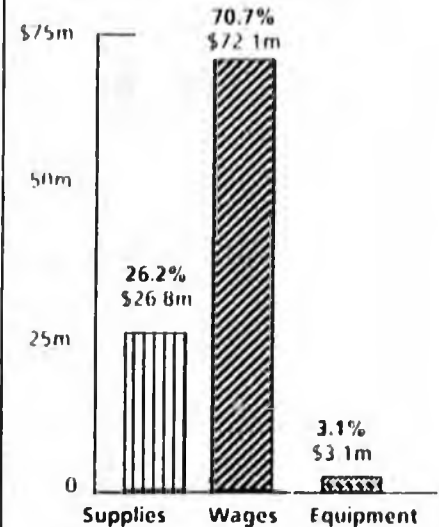
Research conducted in 1986 by UAF, in cooperation with the Fairbanks North Star Borough, demonstrates that the total economic impact of UAF, including grants, salaries and purchases of faculty, staff, students and their visitors, amounts to \$158 million each year. This is based on a conservative multiplier effect of 1.44, which means that for purposes of the study, it is expected that for every dollar spent it turned over 1.44 times that in the community.

Major UAF expenditures totaled \$102 million annually (1985). Survey results found that faculty and staff spent \$33 million locally in that year resulting in a \$47.5 million economic impact on the borough when the multiplier is taken into account.

Students themselves represent a major boon to economic activity, having spent \$60 million in the Fairbanks area in the same year. The direct and secondary impact of these expenditures within the borough was \$86.4 million. As a result of university, staff, student and visitor expenditures, 2,524 jobs were created in the private sector.

Annual expenditures in the Fairbanks North Star Borough due to visitors of UAF-related faculty, staff and students totaled \$5.6 million, or \$8.06 million in light of direct and secondary impact of these expenditures.

UAF expenditures



UAF ranks among the 100 leading universities for its research and development activity.

During the study period, UAF employed more than 2,000 full-time, temporary and student employees, making it one of the largest employers in the Fairbanks North Star Borough.

University of Alaska Fairbanks Visitors of students and faculty/staff and their expenditures (1984-85)

	Students	Faculty/Staff
Average number of visitors	37	62
Average length of stay (days)	6.4	9.3
Average daily expenditure of visiting friend or relative**	\$26.0	\$26.0
Average annual visitor expenditure	\$616.0	\$1,499.0
Annual visitor expenditures***	\$2,810,808.0	\$2,788,140.0

* Figures for convention visitors not available.
 ** Fairbanks Convention and Visitors Bureau, Fairbanks Visitor Survey and Annual Report, 1984.
 *** The valid number of sample observations are 273 for students and 103 for faculty based on a population of 1,860 faculty staff and 4,563 students.

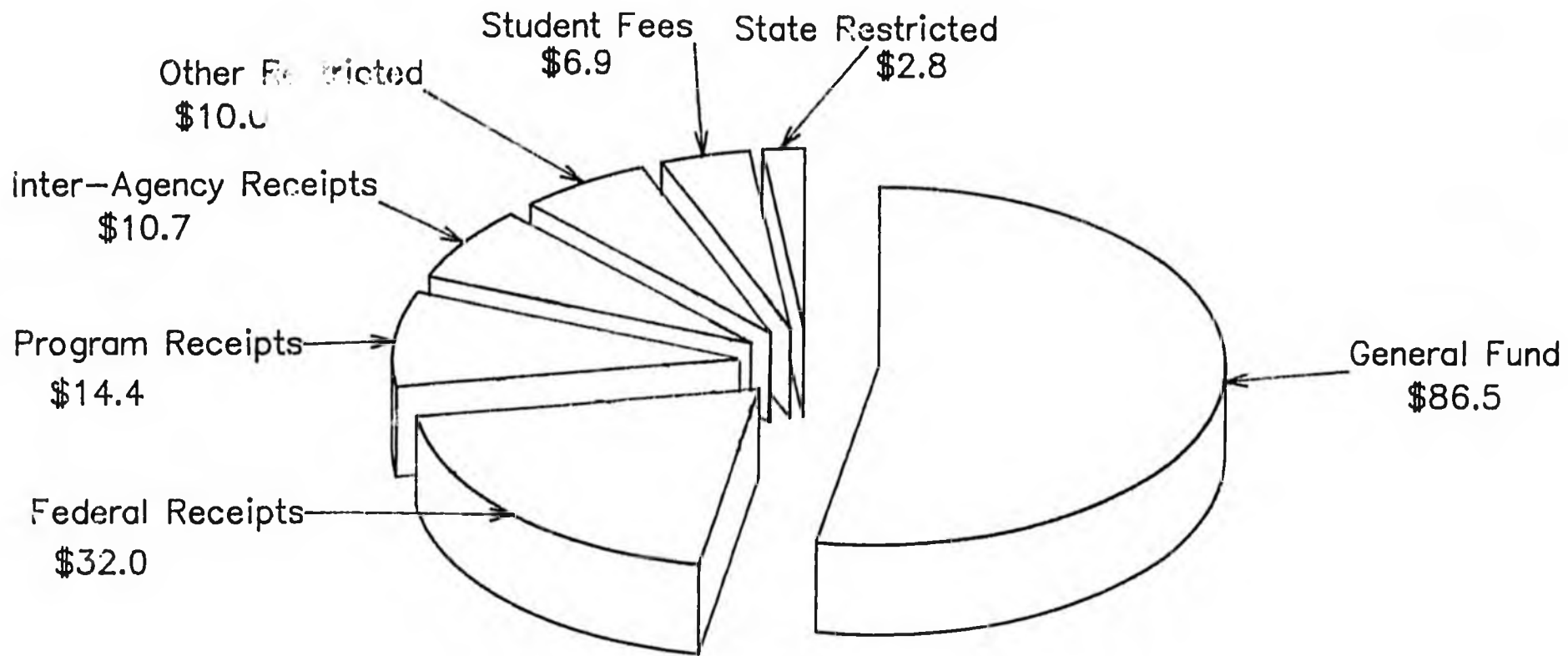
(Taken from the "Economic Impact of the University of Alaska Fairbanks on the Fairbanks North Star Borough" report produced by UAF in August 1987.)

University of Alaska Fairbanks University related expenditures in the FNSB and overall impact

Expenditures in Millions	Faculty/Staff	Students	Visitors	UAF	Total
Gross	\$33.6	\$61.9	\$5.6	\$11.2	\$112.3
Less Campus Housing	<\$67>	<\$19>	N/A	N/A	N/A
Total in FNSB	\$33.0	\$60.0	\$5.6	\$11.2	\$109.8
Overall Economic Impact	\$47.5		\$8.1	\$16.1	\$158.1

(Taken from the "Economic Impact of the University of Alaska Fairbanks on the Fairbanks North Star Borough" report produced by UAF in August 1987.)

FY90 BUDGET REQUEST
UNIVERSITY OF ALASKA FAIRBANKS
TOTAL \$163 MILLION



UNIVERSITY OF ALASKA FAIRBANKS
 Research Revenue to Total Revenue
 FY90 Budget Request

Revenue	Total UAF	UAF Research	Research % of Total
General Fund	\$86,459.8	\$14,967.2	17.3%
Federal Receipts	\$32,035.2	\$27,957.9	87.3%
Other Restricted	\$12,800.5	\$8,410.2	65.7%
Program Receipts	\$14,442.8	\$818.6	5.7%
Student Fees	\$6,903.4	\$0.0	0.0%
Inter-agency Receipts	\$10,688.7	\$586.2	5.5%
	<u>\$163,330.4</u>	<u>\$52,740.1</u>	<u>32.3%</u>

Polar Research Center

A Window of Opportunity

Concept would include:

- | | |
|---|----------|
| 1. The Natural Science Building | \$26.0 M |
| 2. The Purchase of the NERCO Minerals Building
UA Statewide Administration would move
from campus to downtown Fairbanks where
Nerco Building is located. | \$ 7.0 M |
| 3. The transfer of the Butrovich Building to UAF
either as is, or with completion of one additional
floor, | \$ 4.0 M |
| or with completion of second additional floor | \$ 4.0 M |

Thus, a minimum Polar Research concept would be \$33.0 M but ultimately \$41.0 M with the completion of the Butrovich Building.

Polar Research Center

A Window of Opportunity

Advantages:

- 1. Moves a segment of the University into downtown Fairbanks including about 120 jobs, thus aiding downtown revitalization efforts.**
- 2. Takes approximately 80,000 sq. ft. of office space off the market, thereby decreasing vacancy factor in the private sector.**
- 3. Better poises the University to take maximum advantage of Federal Arctic Research initiatives.**
 - A. Needed laboratories**
 - B. Polar Research Library space**
 - C. Visiting scientists space**
 - D. By internal shifts, provide additional laboratory space for biochemistry, biology and natural sciences**
 - E. Increased federal dollars for research, thereby positively impacting state economy**
 - F. Increased international stature for Alaska and the University as the U.S. leader in Arctic Science**
 - G. Potential leverage for National Science Foundation to increase its efforts in funding Arctic Science**
- 4. Positive economic benefit on the construction industry**

Disadvantages:

- 1. Front end commitment of state dollars**
- 2. Political problem - Lack of intrastate geographic balance**

University of Alaska Fairbanks

New Initiatives

- **National Science Board Report on Polar Regions**
- **Antarctic Contract**
- **Synthetic Aperture Radar System (SARS)**
- **Arctic Space and Environmental Center (PFRR)**
- **Ice Strengthened Research Vessel**
- **ANWR Research**
- **Research Park**
- **Army Cold Weather Medical Research**
- **Polar Ice Coring Logistics Office**
- **Circumpolar Studies Network**
- **Center of Excellence and Northern Studies**
- **Programs to Enhance Alaskan Economic Development**

The Role of The National Science Foundation In Polar Regions

- 2** ...that the NSF establish and oversee the operation of a network of research support centers for the polar regions. These centers would be supported by the NSF and managed by universities or private organizations.
- 3** ...that a logistics program be established for the Arctic to support NSF scientists and research projects conducted in the northern polar regions.
- 5** ...that the NSB encourage the National Institutes of Health and other appropriate agencies to support increased health and medical science research in polar regions. In addition, we recommend that, in cooperation with such health and medical research, the NSF support basic social sciences research in polar regions.

The Role of The National Science Foundation In Polar Regions

- 6** ...that research on the culture history, linguistics, archaeology, and physical anthropology of arctic peoples be established in the NSF as an identified and appropriately staffed program within the Division of Polar Programs.
- 7** ...that a research vessel capable of scientific and engineering research in arctic seas also be acquired.
- 8** ...that the cooperation of private organizations and industry be sought in the construction of facilities and provision of logistic support in the Arctic and Antarctic.

The Role of The National Science Foundation In Polar Regions

14 ...that basic engineering research be conducted in the polar regions and that it be a specifically targeted research component of such programs to develop the engineering knowledge required for operation in the polar environment.

15 ...that the funding for polar science wherever it is presently supported within the NSF, be increased to a level twice that budgeted for Fiscal Year 1988 within the next 3 years and that the suggested logistic support be put in place as scientific opportunities and needs dictate.

White House Science Council

Findings

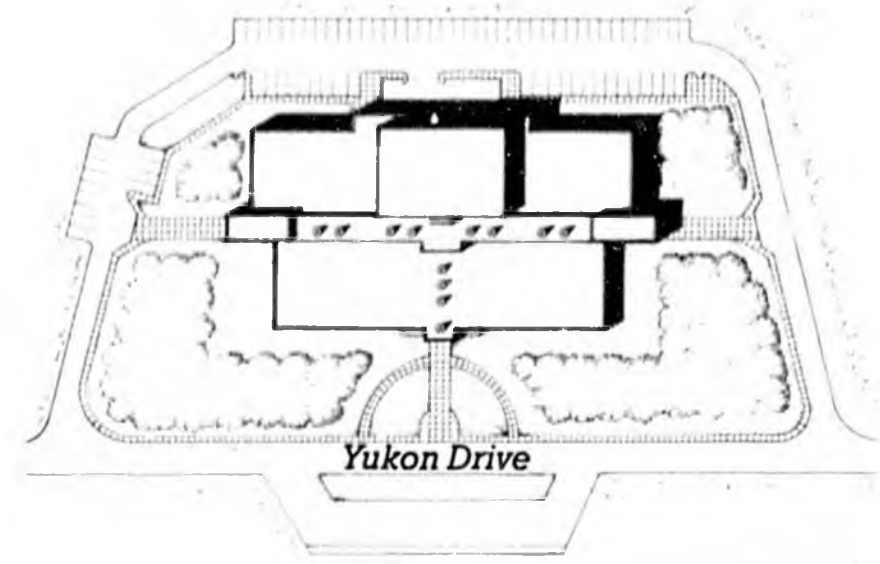
- **A healthy university system is the basis for our future. In any ranking of priorities for allocating R&D support—both federal and private—universities must rank first.**
- **State and local governments as well as private philanthropy, play a vital role. Their initial investments develop the structures and programs that make universities competitive for federal investment, and they provide resources by which academic institutions preserve their autonomy and diversity. Moreover, such support is a major element of the shared responsibility that typifies the present university-federal government partnership.**
- **Strong university-government-industry partnerships are fundamental to meeting our goals in economic competitiveness, national security, agriculture, health, and in improving the quality of life of our citizens.**

White House Science Council

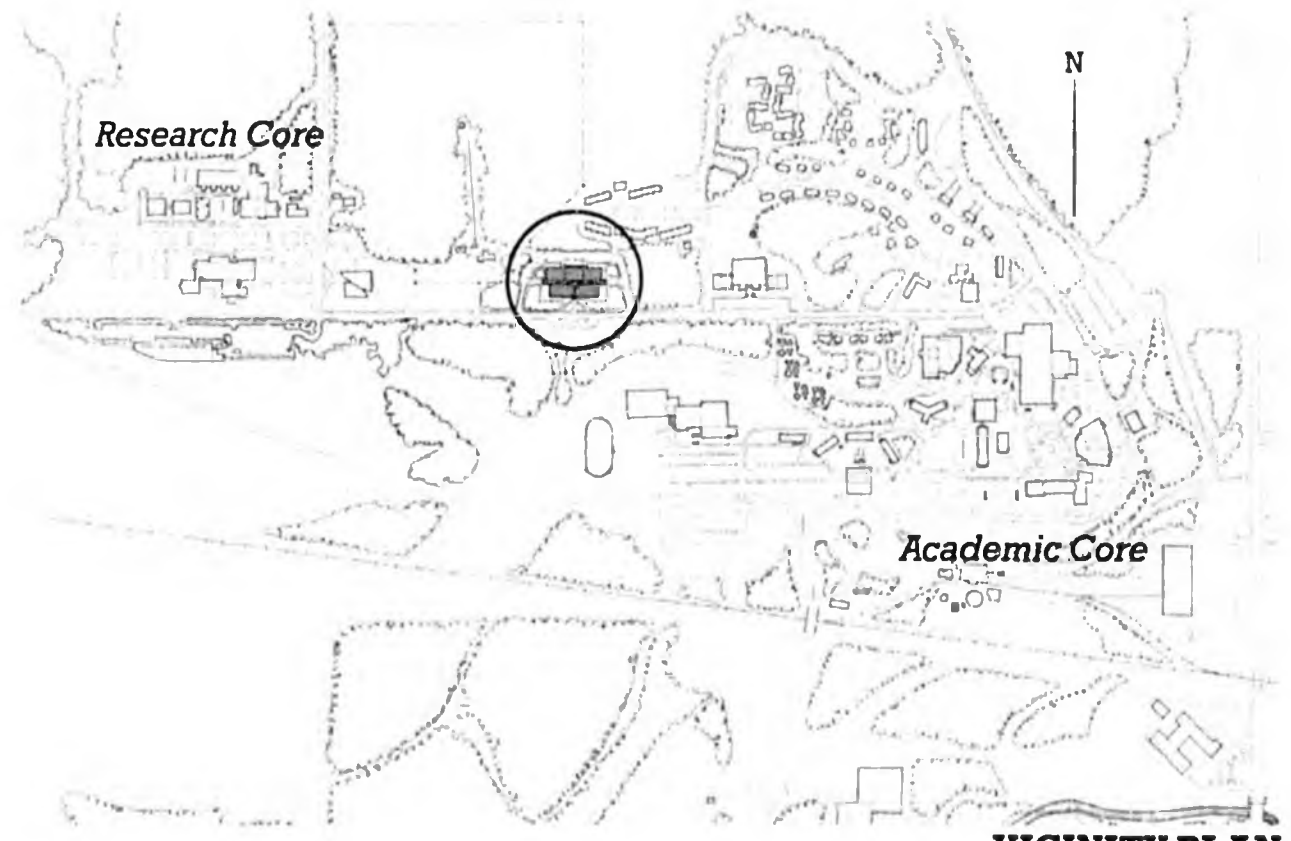
Challenge to the states

- Like industry and the federal laboratories, communities benefit substantially from being located near strong universities....**State governments have a responsibility** to help shape and develop local universities to meet regional needs and characteristics. Particularly with respect to state universities but also for private universities, states can have a profound effect on the quality of institutions
 - by augmenting federal research programs in areas of particular regional interest...
 - by providing infrastructure support and unrestricted grants to institutions, to groups of researchers or to individual faculty members and
 - by becoming actively involved in the education process.

NATURAL SCIENCE FACILITY



SITE PLAN



VICINITY PLAN

NATURAL SCIENCE FACILITY

PROJECT MANAGEMENT
Facilities Planning & Construction
Northern Region Office

ARCHITECT
ZGF Architects, Inc.
Portland, OR

ASSOCIATE ARCHITECT
Bezek-Durst Inc.
Anchorage, AK

LABORATORY CONSULTANT
Earl Walls Associates
San Diego, CA

STRUCTURAL
kpff structural engineer
Portland, OR

MECHANICAL/ELECTRICAL
Winzler & Kelly Engineers
Anchorage, AK

CIVIL
R & M Consultants, Inc.
Fairbanks, AK

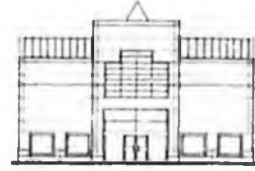


NATURAL SCIENCE FACILITY

UNIVERSITY OF ALASKA, FAIRBANKS



NATURAL SCIENCE FACILITY



The facility is centrally sited along Yukon Drive. This location will begin a physical and programmatic linking of the older core of UAF with the research institutes constructed in the late 1960's.

The building will be a low profile, crisp metal and glass structure placed among the trees on this prominent hilltop site. It brings together four of the disciplines of the natural science community and provides 61,900 net square feet of laboratory, offices, equipment storage, lecture auditoriums, classrooms and general facilities required for instruction and research. Parking for the occupants will be provided and will help resolve existing and future parking requirements on campus.

Oriented with its primary facade and offices overlooking Yukon Drive and the Alaska Range on the horizon, the building is designed to accommodate future expansion axially either east or west. This facility is designed as an energy-efficient structure and will be served by the campus underground utility system which will be extended 900 feet for this project. Its location and design will accommodate the large dish antenna and electronics facilities required for the NASA high resolution imaging radar satellite receiving station offered to the University of Alaska-Fairbanks.

The addition of the Natural Science Facility on the UAF campus will accomplish four major objectives of the University.

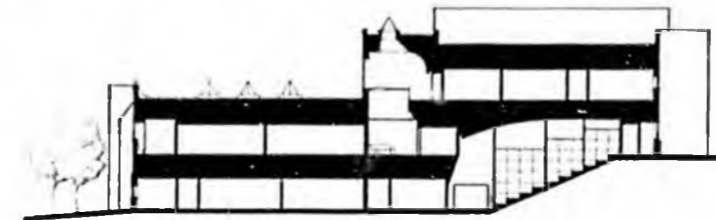
The first is to partially overcome a shortage of space which currently exists on the campus, particularly in specialized laboratory facilities, office space and large lecture facilities. Analysis by the Statewide Office of Facilities Planning indicates a current campus-wide shortage of 140,733 net assignable square feet and a projected campus-wide shortage by 1993 of 451,964 square feet.

NATURAL SCIENCE FACILITY

The second main objective is to provide adequate, safe and efficient laboratory spaces to those departments of natural science which lack them. Foremost among them are the Geology and Petroleum Geology programs, currently housed in inadequate facilities in the Brooks Building. This project will provide needed expansion and a permanent home for Solid Earth Geophysics, Chemistry and Physics. UAF has distinguished itself in the natural sciences and has outgrown its present science facilities. In order to maintain and enhance its science reputation into the next decade, improved and expanded instructional and research laboratories are required.

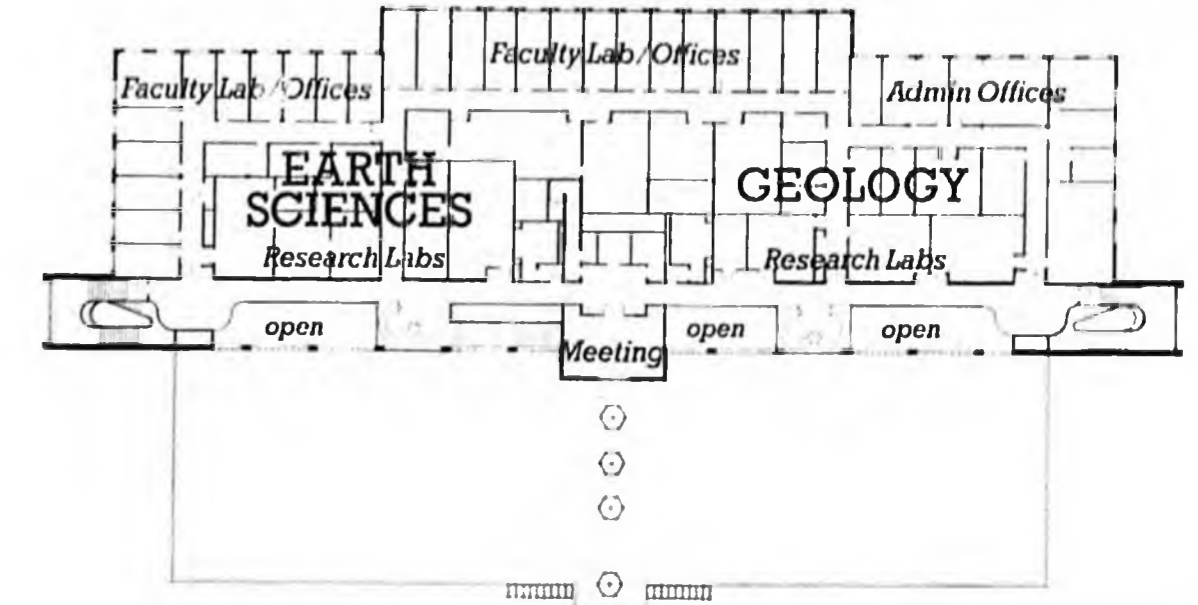
Third, the roof of the building has been identified by NASA as the desired location of a \$10 million NASA-financed high-resolution imaging radar satellite receiving station. This station will be the most sophisticated and state-of-the-art in the nation and could provide enhanced economic impact as new areas of research investigation are opened up. The Synthetic Aperture Radar (SAR) Facility will also bring a high-tech space approach to solving some of the State's problems such as ice forecasting, which impedes ship traffic and off-shore petroleum exploration and production. Botanical and geological use of SAR will help in land-use planning and mineral exploration.

Finally, the construction of the Natural Science Facility will permit expansion of needed facilities for Mineral Engineering, Biology and Geophysics, once vacated space is renovated. Thus, eight departments benefit by allowing them to meet their commitments to students and the State.

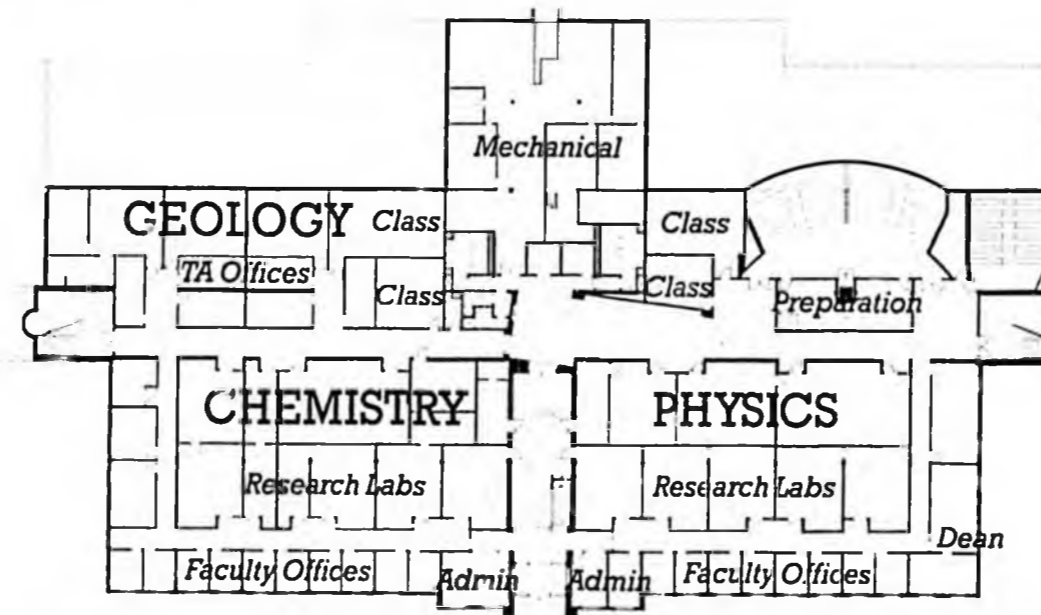
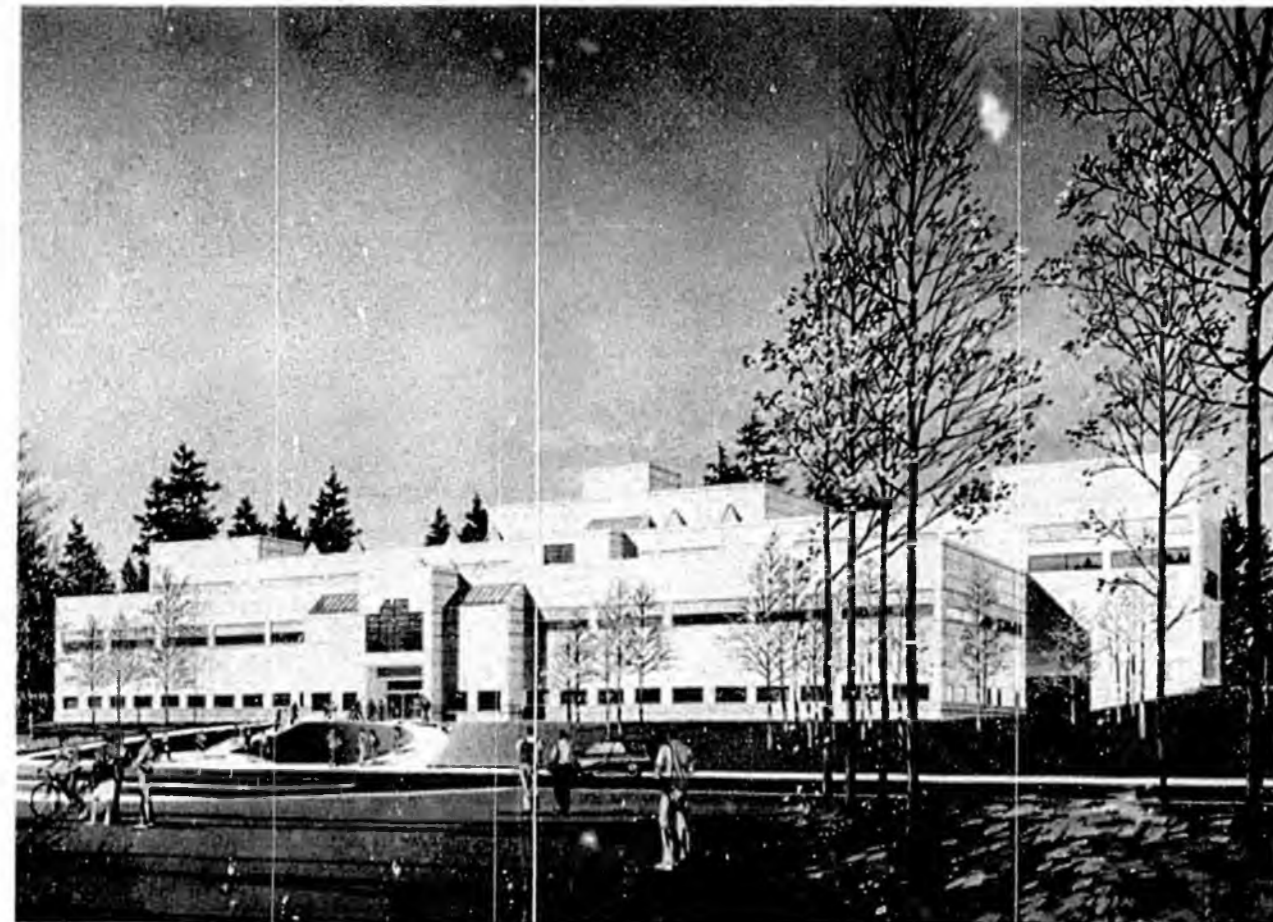


SECTION AT
200 SEAT LECTURE ROOM
LOOKING WEST

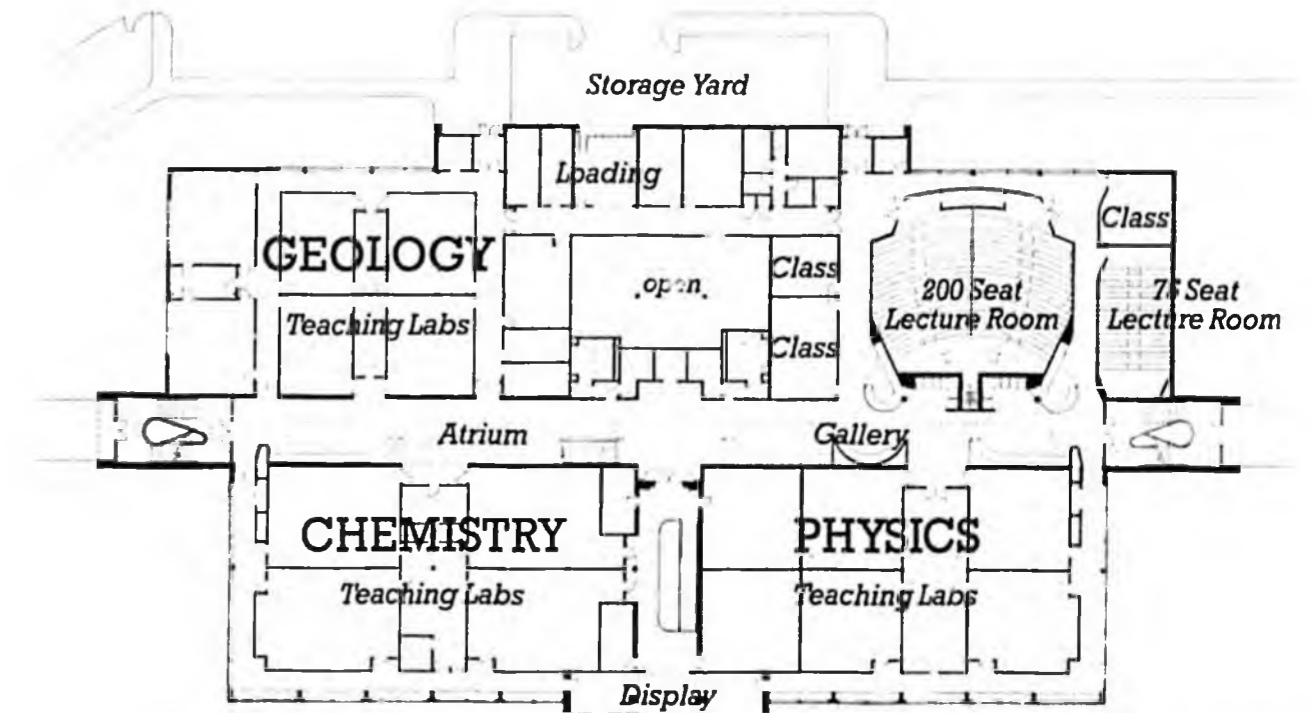
NATURAL SCIENCE FACILITY



LEVEL 3-RESEARCH

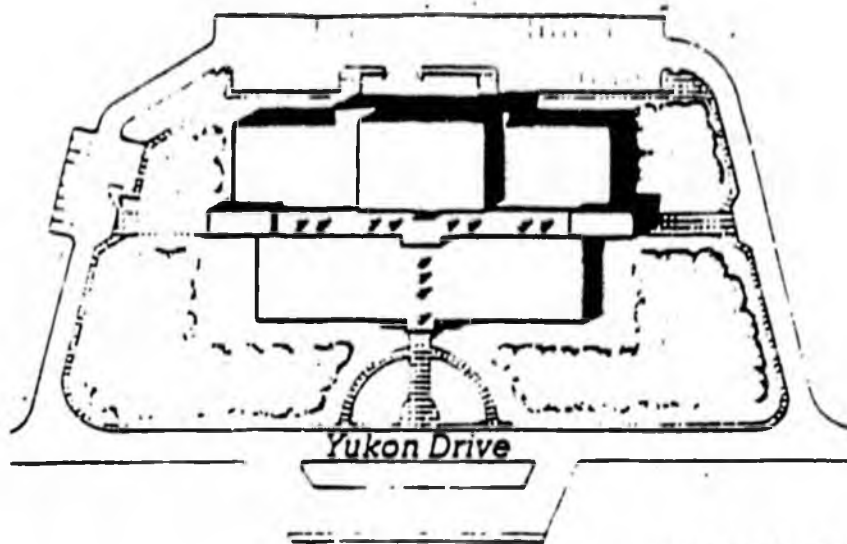


LEVEL 1-RESEARCH

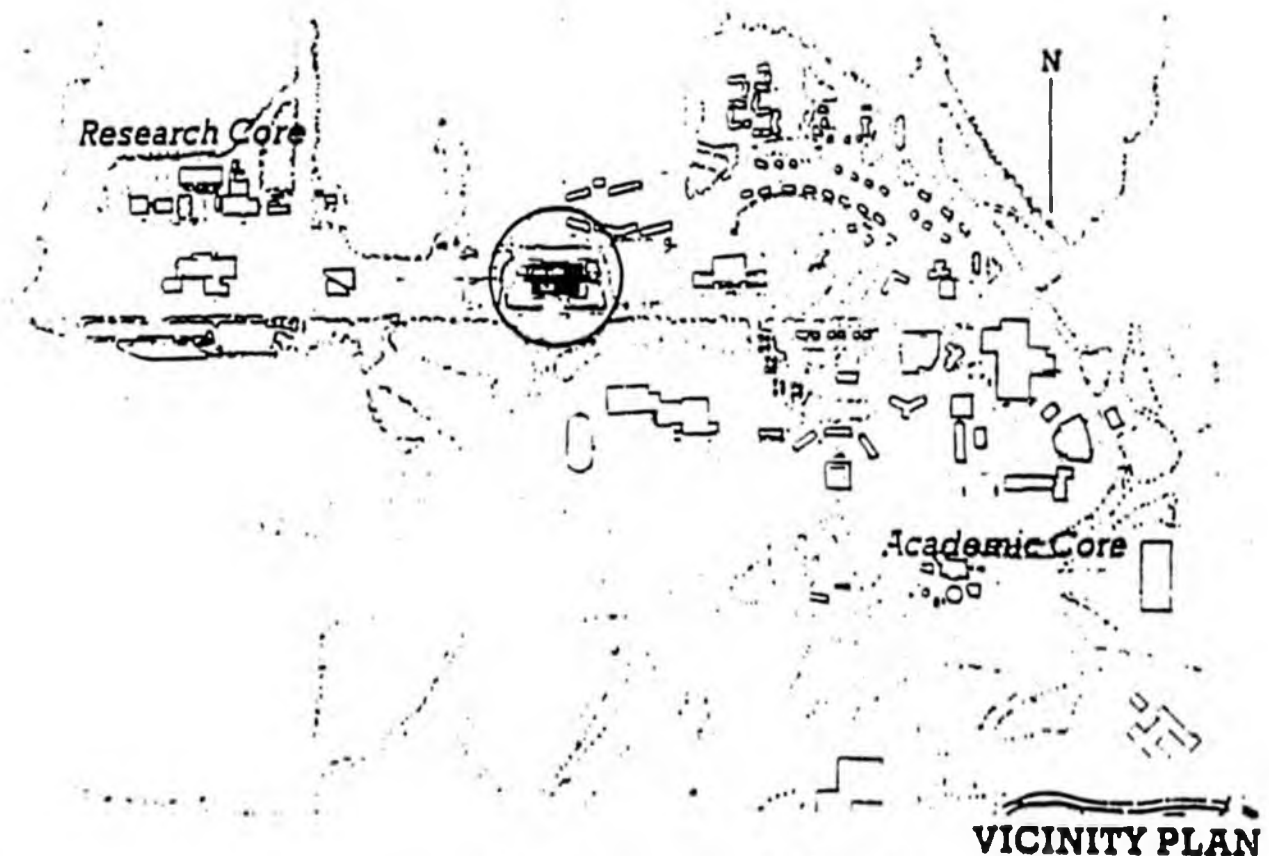


LEVEL 2-TEACHING

NATURAL SCIENCE FACILITY



SITE PLAN

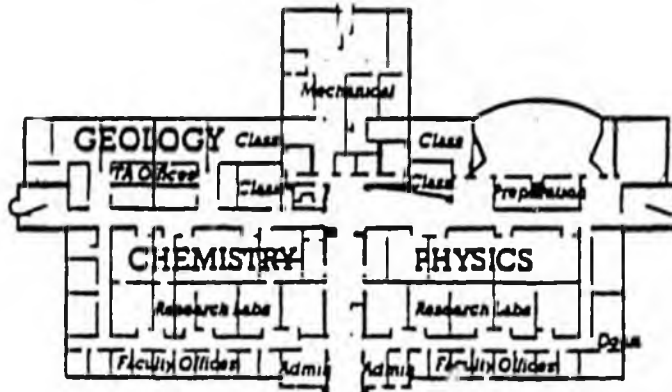


VICINITY PLAN

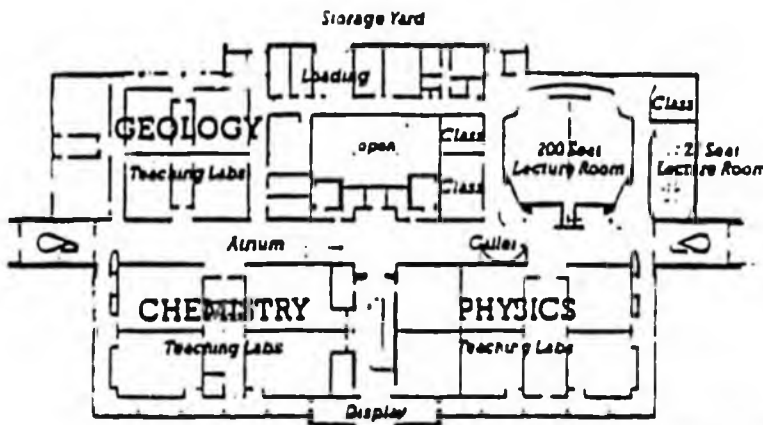
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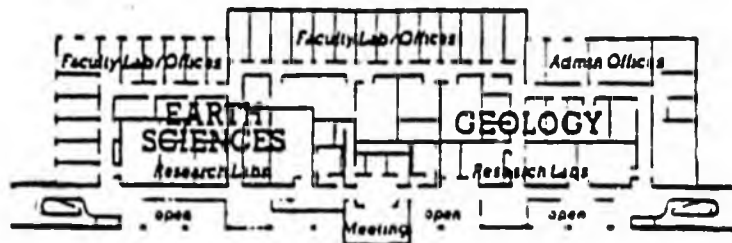
LEVEL 1-RESEARCH



LEVEL 2-TEACHING



SECTION AT 200 SEAT LECTURE ROOM LOOKING WEST



LEVEL 3-RESEARCH

1

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2

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3

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Copies of minutes listed below were originally included in this file. The minutes are available on the STAIRS database CMPR. In order to save space copies of minutes have not been left in the files.

Mary Van Nimwegen

H. HESS 3-15-90

H. HESS 3-16-90