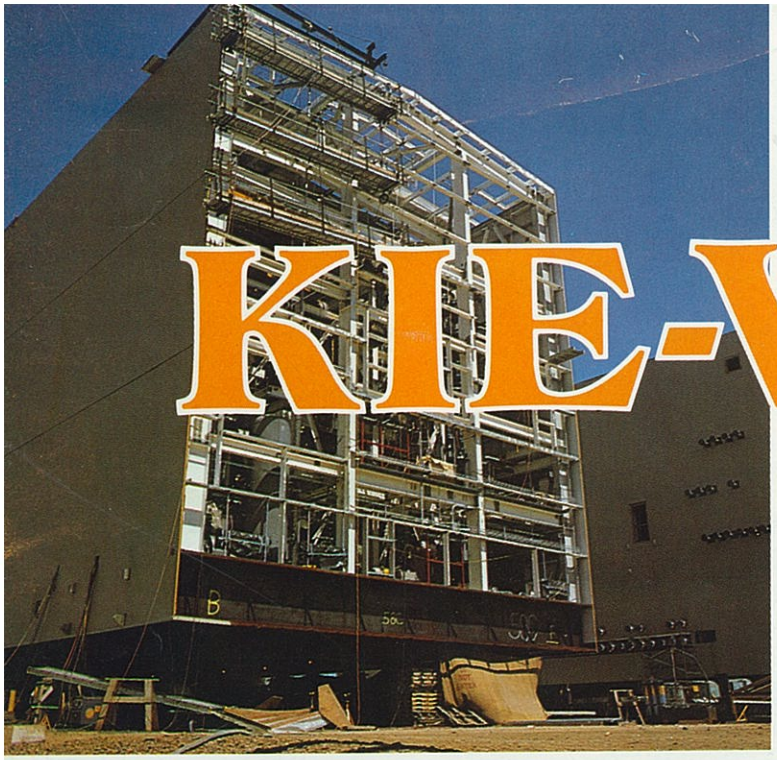


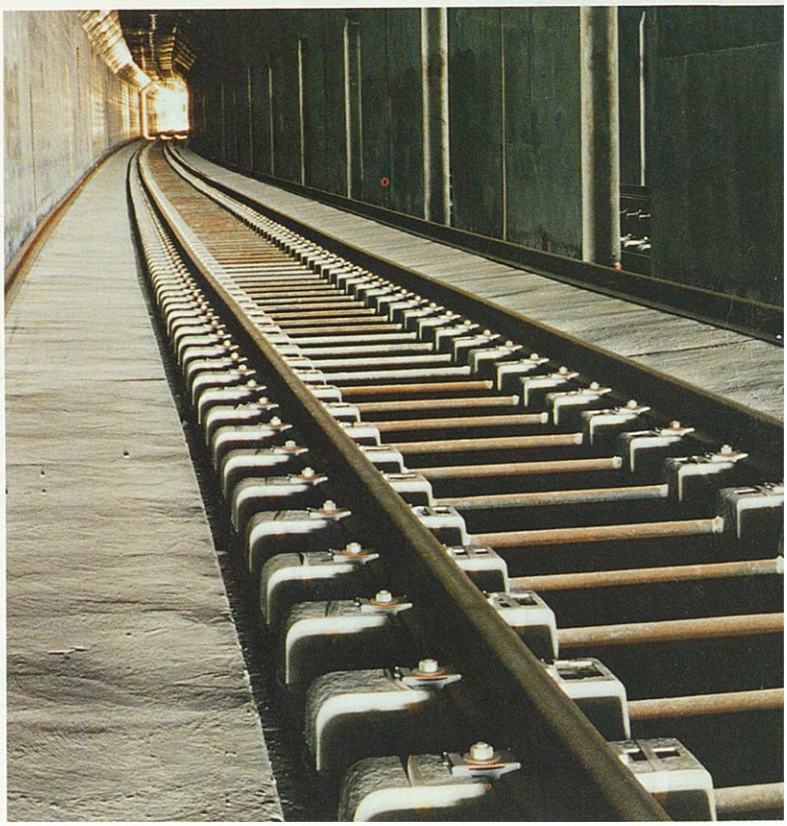
SOHIO Oil Processing Modules
For Alaska's North Slope

KIE-WAYS

JULY-AUGUST 1982

New Grange Insurance
Association Office
Building in Seattle

Versatility!



Center City Commuter Rail
Connection in Philadelphia

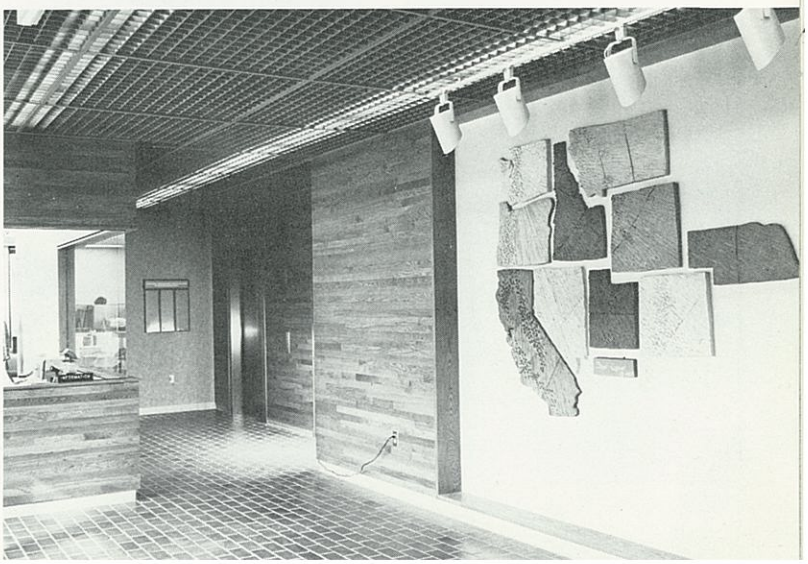
The new Grange Insurance Association office building, designed by Leo A. Daly & Associates, is located near the Space Needle in Seattle's Denny Regrade area.

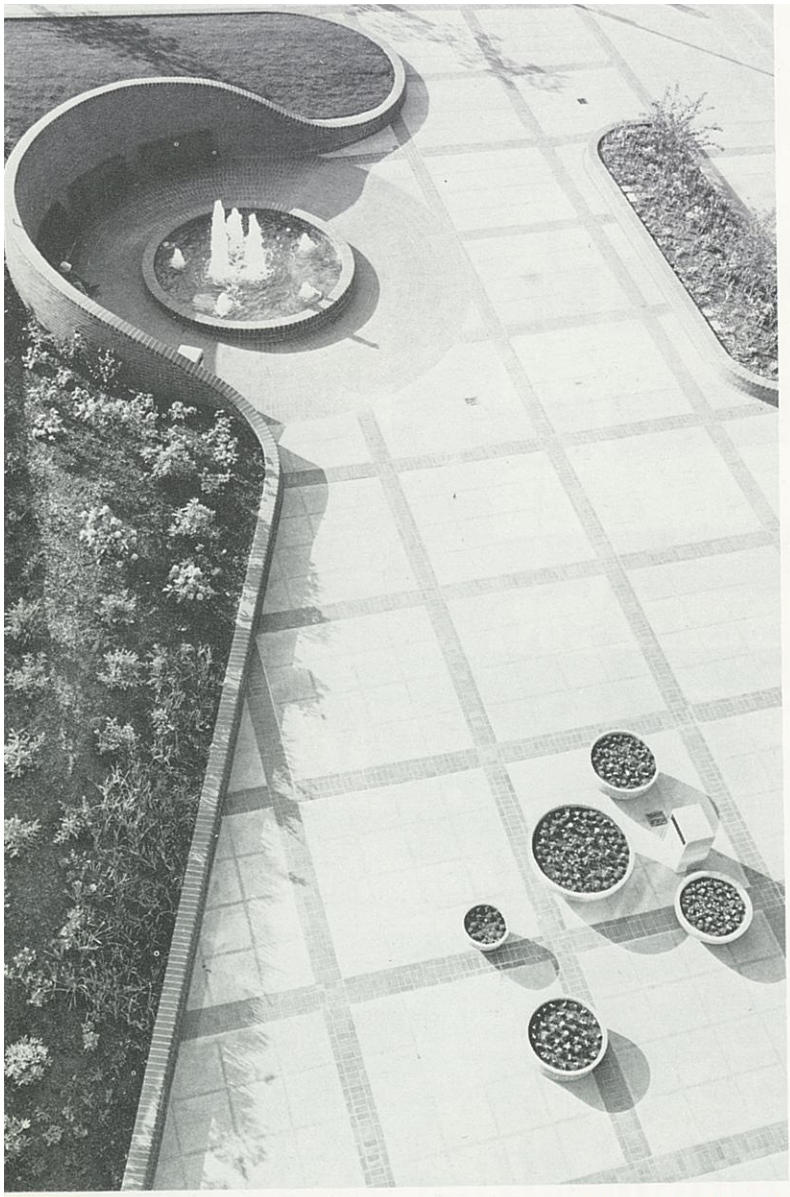
Grange Insurance Association Office Building

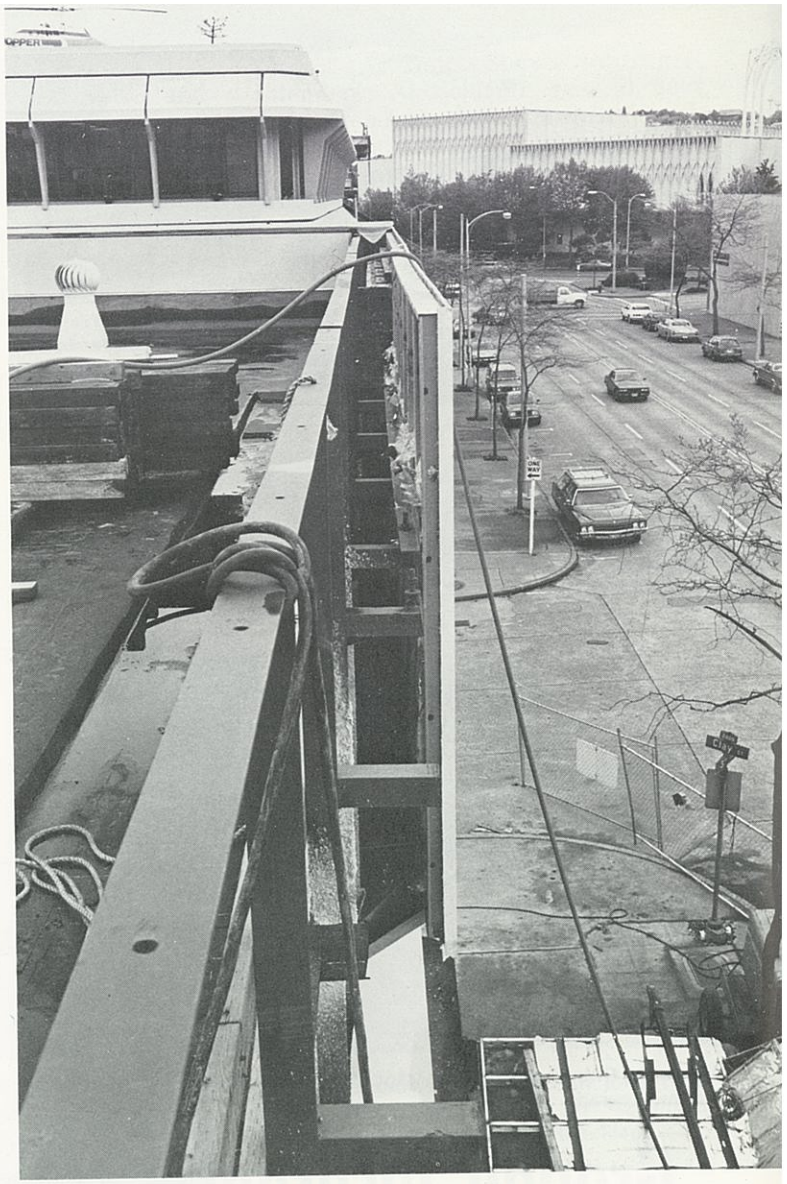
The new Grange Insurance office building is an attractive addition to Seattle's revitalized Denny Regrade, a commercial area of the city that has grown up where there once was a hill that encumbered urban expansion. The Seattle District of Peter Kiewit Sons' Co. was low bidder on December 3, 1980, for the $6-million, two-phase contract to construct a new office building and remodel an existing one for the Grange Insurance Association. The design work was done by Leo A. Daly & Associates.

Phase one of the contract, which has been completed, involved constructing the four-story office building and a half-block of single-level,

Below, left: Four floors of 12,960 s.f. each bring the total office space in the building to 51,840 s.f. Below, right: Oak paneling, a redwood, egg-crate ceiling, and brick pavers are found in the lobby, which features a ceramic, sculptured U.S. map by artist Sheri Cramer.





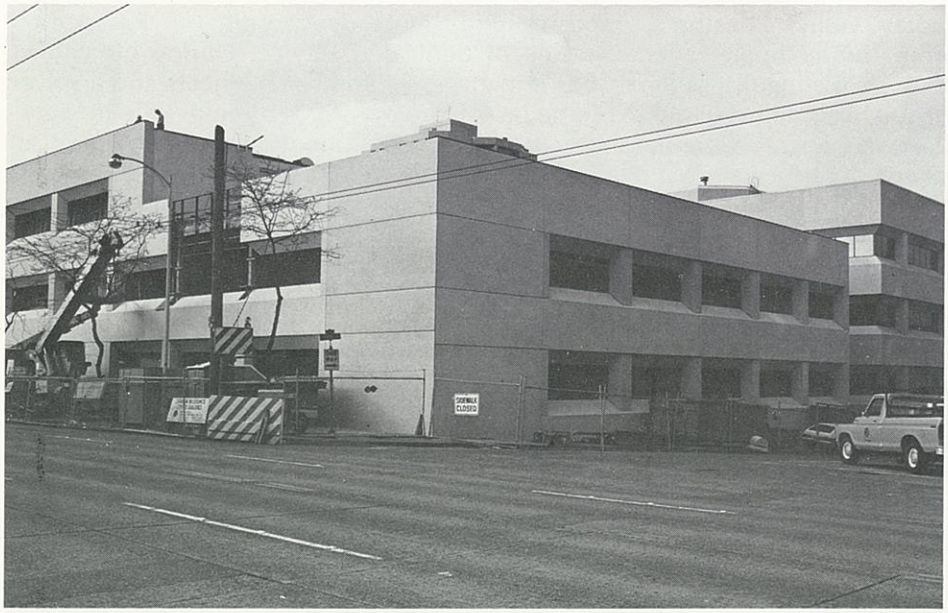


underground parking space for 52 vehicles, as well as landscaping a plaza. The new building contains 51,840 s.f. of office space.

The underground parking garage is constructed of poured-in-place concrete. Pan-joist construction was employed to form the first floor and plaza level. Above ground, the building consists of structural steel framing with concrete on metal deck floors. The exterior is clad with lightweight, fiberglass-reinforced concrete panels and glazed with reflective, insulated glass. Special interior finishes include a ¾-in. oak wall covering, fabric wall covering, and demountable partitions.

Above, left: The attractive, landscaped plaza with a southern exposure is a popular place during the lunch hour. Above, right: Light steel framing supports the ½-in.-thick fiberglass-reinforced concrete panels that clad the exteriors of the buildings. Below: In the executive board room, extensive use is made of ¾- x 2½-in. T&G oak paneling.

Energy efficiency was a primary goal in the design of this building. A major element in the plan was a 45,000-gal., chilled-water storage reservoir beneath the garage ramp. Water can be chilled and stored during the night hours — thus taking advantage of "off-peak" utility rates. This reservoir has a nominal thermal capacity of 500 tons of refrigeration compared against a maximum possible daily demand of 480 tons. Other energy-saving features incorporated into the building are: a zoned, variable-volume HVAC system; effi-

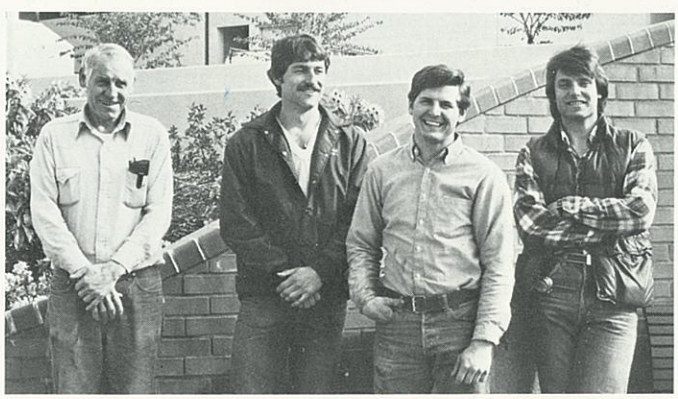


Extensive remodeling of the existing building includes a FRC panel "facelift" and a skybridge connecting the two buildings.

cient fluorescent light fixtures; reflective, insulated glass; a near-optimum building-volume to surface-area ratio; and glazing that covers only 26 percent of the exterior surface area.

Phase two of the contract, which is currently being carried out, involves major interior and exterior remodeling of the existing Grange Insurance Association offices, which are adjacent to the new building. An exterior glass and aluminum curtain wall was removed from the old building, and a new fiberglass-reinforced concrete panel exterior, similar to that of the new building, is being installed. Other improvements under the remodeling phase of the contract include the installation of seismic bracing, building a new roof, and renovating the mechanical and electrical systems. Two floors of the old building are still fully occupied by people on the Grange Insurance office staff, which has made the remodeling work a little more complicated. Also, the office staff has had to contend with the normal noise associated with remodeling. All-in-all, though, the inevitable problems concomitant to remodeling have been understood and minimized by all concerned, resulting in continued good rapport between Grange Insurance and PKS employees.

Of some note is the good safety performance experienced on this job. PKS crews have worked more than 31,500 man-hours without suffering any disabling-injury accidents. PKS supervisory personnel include: Jim Ferguson, superintendent; Bill McCall, project engineer; Steve Stroming, engineer; Brett Harris and Brady Waters, carpenter foremen; and John Vreugdenhil, cement mason foreman. And remembered with gratitude is the late Jim Olson, labor foreman. The project architect for Leo A. Daly & Associates is Scott Norton. The Grange Insurance Association project representative is Jack Howard.



PKS supervisors (l-r): Brady Waters, Bill McCall, Brett Harris, Steve Stroming.

CONSTRUCTION DISABLING-INJURY COMPARISON

(Number of disabling-injury accidents per million man-hours from December 1, 1981, to May 31, 1982.)

Union Rock	0
Sheridan District	0
Edmonton District	0
Phoenix District	0
Omaha Building District	0
Northern California District	0
Southern California District	0
Montreal District	0
West Coast Marine District	0
Power District	1.26
Southern Electrical Contractors, Inc.	2.76
Seattle District	3.25
Denver District	3.37
Tunnels District	3.92
Northwest District	4.32
KRT-Ft. McHenry	5.37
Eastern Marine District	6.59
Eastern District	6.82
Cleveland District	7.82
Process District	9.63
Omaha District	12.31
Vancouver District	13.53

MINING DISABLING-INJURY COMPARISON

(Number of disabling-injury accidents per million man-hours from December 1, 1981, to May 31, 1982.)

Decker West	0
Mining — General	0
Placer Mining	0
Black Butte	3.21
Decker East	4.25
Big Horn	4.32
Rosebud	5.67