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MAY 1985

Projects

The Iron Block Building
11th Floor, Federal Plaza

Reports

Editorial
Eric Englund

Liability Insurance

News

Society News
Marketplace

Photo Credit:
The Iron Block
Building,
Milwaukee
Eric Oxendort,
Photographer
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The following two letters are representative of positions consistently taken and advocated by the WSA.

PLEASE take the time to read both these letters.

Do they reflect the position that you can support?

Do they represent a position that you want your professional organization to advocate?

Can the letters be improved?

Are there other directions that you feel your professional organization should be asserting itself rather than these kinds of efforts?

Call or write with your critique, comments, etc. You can be anonymous, use your name, or use your competitor's name. It won't even cost you anything to call . . . use the toll free number (1-800-362-3912).

RE: ARCHITECTURAL SELECTION

Dear Mr.

Enclosed please find a copy of an article that appeared in a local newspaper. As you will note the article reports that your firm was selected to do a project based upon your agreement to do a site study, a floor plan, exterior elevations and perspectives, and cost breakdowns at no cost to the owner unless the project goes ahead.

Each year this office spends literally hundreds of hours attempting to educate owners on the value of selecting architects on the basis of competence, skill, expertise, creative ability and the multitude of other factors that we believe are representative of what contemporary architects and architecture has to offer. In response to those efforts we all too frequently are advised that "all architects are the same", or "I really don't need an architect, but since I'm required to get one I might as well get one as cheaply as possible."

We believe in what we're doing. In fact we enjoy the opportunity to advocate a competence based selection methodology for architects.

Our biggest disappointment is that architects appear to be their own worst enemy. By that I mean that the realities of the competitive environment in which architects must survive often times makes our public position look quite foolish. We see architects who suggested to owners that they can do the job cheaper. We see architects who suggest to owners that they should bid for their architectural services. We see architects who apparently will do anything to get a commis-

(Continued on Page 6)
Mr. Eric Anderson  
City Manager  
City of Eau Claire  
203 S. Farwell  
Eau Claire, WI 54701  
RE: SELECTION OF ARCHITECTS/ENGINEERS FOR CITY OF EAU CLAIRE PROJECTS

Dear Mr. Anderson:

1) The rules of the State of Wisconsin which are used when the State selects an architect to provide professional services.

2) An article from WISCONSIN COUNTIES magazine captioned "How Architects and Counties Collaborate."

3) A booklet captioned "SELECTING ARCHITECTS FOR PUBLIC PROJECTS"

We understand that the City of Eau Claire is in the process of selecting an architect/engineer (A-E) to provide professional services for the proposed Central Maintenance Facility. We further understand that consistent with past practice that the selection of an A-E for this project will be based primarily on low bid.

We do not feel that it is in the best interest of the owner or the users of the building to select an architect on the basis of low bid. Briefly stated, the reasons for our objections include the following:

1) Establishing the lowest bid as a basis for employing professional service can result in obtaining the least competent professional.

2) Employment of a professional is in large part based on trust, competence and artistic abilities, which are aspects of the service which cannot be evaluated on the basis of low bid.

3) Selection of architects to work on municipal projects on a low bid basis is contrary to the best interest of the owner (taxpayers) for a number of reasons, including the following:

   a) The report of the Federal General Services Administration Special Study Committee on the Selection of Architects and Engineers prepared federally in 1974, concluded that competitive bidding or any other direct form of price competition in the selection process of architects and engineers would not reduce the potential for impropriety, would not provide a practical or effective tool for selecting the most qualified architect and/or engineer, or give less experienced firms a better chance to qualify for federal work.

   b) In 1972, the U.S. Congress established as federal law, the policy that architects and engineers should be selected on the basis of highest qualification for each project, and at a fair and reasonable price. The current federal practice of law on architectural selection endorses this traditional governmental negotiating a contract with the architectural firm most qualified to do the work.

   c) Since the fee paid the architect is related to their time spent on the project, a reduction in the fee means a reduction of efforts on their part which could very well result in a more expensive construction and loss in the quality of the design and contract documents.

   d) When the construction contractors submit competitive price bids on a given project, they are based on a very detailed set of drawings and specifications which have typically been developed over many months by the architect and owner. Each contractor or subcontractor has identical detailed plans and printed specifications upon which to submit a competitive bid. However, the architect could not submit such a bid for his professional service. Those services are based on originality, creativity and the transformation of an idea by professional determination and decision as to the best way to design, plan and to specify the ingredients necessary to serve the needs of the owner and safeguard the interest of the public within the project limitations.

4) The vast majority of public owners select architects on the basis of competence and past demonstration of ability . . . not low bid. The enclosed rules set forth the selection procedure used by the State of Wisconsin in securing architectural services, including the type that are required by you. These rules are similar to the federal standards and involve a selection on the basis of the highest qualification for the project with a reasonable fee being negotiated.

We are aware of no state or federal rule or procedure which suggests or mandates bidding for professional architectural services. To the contrary, our research indicates an awareness by both State and Federal agencies that architectural services are a professional service which cannot be bid in order to assure the competence and professionalism necessary for a specific project.

We have substantial materials in our files on this topic. Should you have any questions, or require further information or follow-up please feel free to call or write.

Cordially,

Eric Englund  
Executive Director
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The Iron Block Building

Project: The Iron Block Building, Milwaukee, Wisconsin
Architect: Pfaller, Herbst & Eppstein, Milwaukee, Wisconsin
Developer: Carley Capital Group/TMB, Madison, Wisconsin

by George Mitchell

The Iron Block Building is a survivor. It survived leaks, neglect, and loss of significant exterior design elements. The survival of the building, however, was not a sure thing until recently.

In 1983, a joint venture of Carley Capital Group and TMB Development was formed to undertake the rehabilitation of the Iron Block Building. Carley Capital Group/TMB had previously worked together to restore the Tivoli Palm Garden in Milwaukee and the Hayes Block in Janesville. Both of these historic rehabilitation projects were quite successful.

The unique challenge of this project was to take a significant Milwaukee landmark that had badly deteriorated and restore its original character. Other developers had previously given up on the Iron Block as a feasible project. Carley-TMB had to keep in mind the necessity to provide modern facilities for new tenants which met all building codes and which were energy and operationally efficient. At the same time, this small (37,721 rentable square feet) building restoration also had to be financially viable.

The Iron Block Building, listed on the National Register of Historic Places, is one of the oldest surviving Milwaukee buildings on its original site. Its prefabricated cast iron facade makes it a rare structure for Milwaukee and the Midwest. The original facade was shipped in pieces from the East. It was designed in a decorative northern Italian Renaissance style. Included in the design were the use of arcades on each floor, arched windows, fluted columns, and lion head gargoyles.
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Constructed in 1861, the Iron Block occupies the busiest corner in Milwaukee's downtown on the southeast corner of Wisconsin Avenue and Water Street. The Iron Block had undergone a number of alterations prior to its 1984 restoration. In 1899, a five-story addition to the south side of the building was constructed. This included an atrium and skylight. Subsequently, the building remained greatly underused. In fact, the building was under threat of demolition because of its severely deteriorated condition.

The developers and architect researched early records and photos to determine how to bring its exterior back to its original appearance. The reconstruction challenge included stabilizing the iron facades and redesigning the store fronts to the proportions of their Victorian era style. The rusted iron surface was completely sandblasted before priming with a red oxide rust inhibitor. Almost all of the exterior ornamentation had to be replaced and remolded, including 80 Corinthian column capitals, 42 lion heads, window details, and most of the massive cornice work and pediments. Molds were made from existing elements. In some cases, examples no longer existed and patterns had to be created from historical photographs. Most details were recast in aluminum for durability and lighter weight, with the cornice pieces constructed in a combination of wood, sheet metal, and aluminum. The building was painted its original off-white.

It had been more than 50 years since the building existed in its current landmark condition. During
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the project, the developers worked closely with James A. Sewell, A.I.A., of the State Historical Society of Wisconsin, Les Vollmert of the city historic preservation staff and Diane Kealty, president of Historic Milwaukee. Historic Milwaukee holds a facade easement from the developer for the building. This allows Historic Milwaukee to insure that the integrity of the facade is maintained. It gave the developers an additional financial advantage under the tax laws.

The City of Milwaukee was particularly concerned with this project because of the condition of the Iron Block Building. Its deterioration had a blighting impact on other adjacent properties. The condition was further magnified by the fact that the building was on the city's busiest downtown corner. Its location near the eastern edge of the new Grand Avenue, with its revitalization, hindered other potential private and public redevelopment efforts.

ABOVE: Renovated interior lobby at entrance.

ABOVE RIGHT: Window detailing. Note the lion head building logo. All exterior metal was sandblasted and painted to achieve the original building character. The Wisconsin Architect 5/85
Architectural design, research of historic aspects, and supervision of construction was provided by Pfaifer Herbst & Eppstein. Pfaifer Herbst & Eppstein has worked on a number of historic buildings in Milwaukee. Their experience, combined with the commitment of Carley-TMB to see that the Iron Block was restored to its original opulence, resulted in the saving of this historic building and the revitalization of a significant area in the heart of downtown Milwaukee.

The rehabilitation of the Iron Block attracted a great deal of attention which assisted the leasing process. All of the office space in the building was leased to Capitol Bankers Life Insurance Company. Retail occupants include Harry W. Schwartz Bookstore, Astors card shop, AmeriSource computer store, and Embassy Travel, Ltd. The major contractors involved in the project included: Torke-Maslowski, Inc.; Staff Electric; Zien Plumbing and Heating; and Computerized Structural Design, Ltd.

The interior of the building has been modernized to accommodate the requirements of office and retail tenants for first class space. The lobby entry has marble flooring and wainscoting. Plaster mouldings and historically inspired light fixtures are also a part of the lobby. A two-story vestibule connects the lobby with a mezzanine level, creating interesting overviews and a sense of drama.

A new hydraulic elevator lifts passengers to the upper office floors, including a partial mezzanine floor and full office floors at levels two, three and four. Departing from the elevator, employees and visitors will find themselves at the threshold of a stunning, three-story atrium space. Stretching the length of the building, the atrium brings natural light deep into the center of the Iron Block, and provides a dramatic central focus for office suites located along its balcony corridors.

Mechanical servicing is provided by a water source heat pump system. A separate heat pump will control the air-conditioning requirements of each individual office suite. Tenants may individually control the comfort of their suite throughout the day and during the evening, as well as on weekends. Hydronic baseboards along exterior walls supplement this system to maintain comfortable temperatures in the coldest weather. A full range of office equipment can be serviced by the electrical system in each suite. Word processing equipment, personal computers, owner-installed telephone systems and other electrical accessories are easily accommodated.

Fine finishes, refurbished historic doors, and heavy wood mouldings accent elegant office space on upper floors. Dramatic arched-top windows offer views of downtown street activity. As an added feature for those who are tired of "sealed" modern office buildings, the windows of the Iron Block may be opened to allow fresh outside air into the building. Heavy thermal glass and substantial weatherstripping block winter winds to prevent "cold spots" from occurring at the windows. Additional heating elements alleviate winter drafts at exterior walls.

The ceiling system is divided into two separate treatments. An interior zone over reception, waiting and support spaces is lowered to 9' 0" to allow for mechanical distribution, recessed lighting, and electrical/telephone distribution wiring. An exterior zone along outside walls has retained the original ceiling height of nearly 12' 0" to fully accentuate the large window openings and their heavy, detailed window casings. This maximizes available natural light while allowing tenants to install more elaborate chandelier-type lighting and energy-saving ceiling fans.

The financing challenge was met with private funds, a $750,000 UDAG, the 25 percent rehabilitation tax credit, and a historic building facade easement. The building restoration was completed in November of 1984 at a cost of three million dollars. The building was fully occupied at its completion. The development has created a more favorable climate for the restoration of historic commercial buildings in the downtown, spurred owners of neighboring Victorian commercial properties to invest in restoration, supported redevelopment efforts by the City of Milwaukee, and turned a severely blighted property into an asset on the busiest downtown corner.
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Liability Insurance — An Employees Best Friend?

Several months ago the following article appeared as part of Society News in this publication.

YOU STAMP IT ...
YOU GET SUED

Two recent calls to the WSA office made the same inquiry. Both callers, employees of firms, questioned whether or not they were personally responsible for projects on which they placed their professional stamp.

Yes.
Yes.
Yes.

No ... the above is not a misprint.

Any man, woman, or combination of the two that places his or her stamp on a set of plans is personally responsible for those plans.

The employer (firm, partnership, solo practitioner, corporation, etc.) is also responsible if the architect stamps the plans in the ordinary course of being an employee for the employer.

For more information, contact Eric at the WSA office.

A strange thing happened in response to that article. The phone at the WSA office rang off the hook. Both employers and employees called ... many of whom suggested that the article was wrong. They were wrong. Wisconsin law clearly provides that if you stamp a plan you are personally responsible for it.

The answer to this reality is easily stated. Professional liability insurance. Understanding the subtleties of professional liability insurance isn't quite as easy ... but for purposes of this article such comprehension is not necessary.

Most professional liability insurance policies cover the firm, the employees of the firm ... both past and present. Most professional liability insurance policies cover claims that are made during the time that the policy is in effect. In other words, if you are going to stamp plans and if you are going to rely on professional liability insurance to provide you with coverage in the event of a claim against you for an error in those plans, your company must have professional liability insurance in place at the time the claim is made.

A couple of examples:

Your firm and you are sued for an alleged error on plans that you stamped in 1978. Your firm has liability insurance that covers this claim. You are covered by the liability insurance policy.

Your ex-firm is sued for an alleged design error in design on plans that you stamped in 1978. You now are working for a different firm. Your ex-firm has coverage on this claim. Your ex-firm's liability coverage will cover you.

Your firm is sued for an alleged design error for plans which you stamped in 1978. Your firm does not have liability insurance coverage. You could be held personally responsible.

The WSA is not in the business of selling professional liability insurance. The WSA does believe that it's important that architects recognize the scope of their potential liability when they provide a professional service. For more information contact Eric at the WSA office.

The Wisconsin Architect 5/85
The architectural interior by Heike/Design Associates, Inc. of Milwaukee, Wisconsin for the 11th floor east of the Henry S. Reuss Federal Plaza combines post modern, high technology, and rustic themes to create a richness of comfortable human environments. If there is one aspect that brings it together best, it is the fact that it works for the people who use it.

The Milwaukee office of this major international management consulting firm needed to be a showplace for their philosophy and expertise in sensitivity to human resources, as well as to project a high profile professional image; in other words, progressive, yet functional was the challenge down to the smallest detail. As architects for private tenant leased space, Heike/Design Associates, Inc. was intimately familiar with the building's electrical, mechanical, and specialized electronic energy management systems which assisted in compatible interface with the client's state-of-the-art automated office equipment, intricate lighting design, and overall climate control. They selected the Federal Plaza primarily because of this and because of the vitality of its downtown skywalk link location. The sense of openness and airiness of the building prevails in this space.

Attention was paid to current staff size as well as to long and short term projected growth. 8,200 square feet of space was finished at the north end of the 11th floor with ample room to expand staff size significantly in the short term. Unfinished space is available to the south for long term needs. All aspects of the design are of the highest possible quality including workmanship, materials, furnishings, and equipment.
A sequence of events takes place with no one segment set apart from the others. The drama begins in the entry where color, texture, shape, and lighting converge to set a sophisticated post modern stage. The custom-designed reception desk is the focal point. It is anchored and framed by a unique, rounded column on its left and gently curving soffet above which continues around the entire room. In one corner is an inviting guest waiting cove with intentionally decreased ceiling height and soft downlighting. Original art hangs on walls behind comfortable chairs. Adding to the sense of intrigue and curiosity, a thin single strip of white neon wraps around the soffet and column creating a light, airy, floating sensation.

A surprising diversion from this high tech atmosphere is the rustic 1,200 square foot redwood garden deck which projects over the outside roof line of the building and, on a clear day, serves as an employee retreat or a place for entertaining clients high above the city streets. When the weather isn’t so nice, a lovely lounge faces the Federal Plaza’s atrium with its natural light streaming in. It is equipped with a full kitchen and gives the impression of the great outdoors.
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Added to the WSA’s library of video cassettes is an excellent presentation by David Maister, a Professor at the Harvard Business School, discussing methods by which architects can increase their compensation. This tape is available for use by WSA members. Call Sandra at the WSA Office.

BEST BLOCK DONATES $1,405.20 TO THE WAF

For the 22nd consecutive year, Best Block Company has made a substantial donation to the Wisconsin Architects Foundation. This year’s donation is in the amount of $1,405.20. The cumulative total of the gift from Best Block Company now exceeds $35,000.00.

The history of this contribution to the WAF by Best Block Company is an interesting one. One of Best Block’s products is the TSA Random. The unusual design of this block was originally conceived by Milwaukee Architect Jack Shepard. Best Block Company obtained the copyright to manufacture this block and in lieu of royalty payments to Jack Shepard, Best Block Company makes an annual contribution to the WAF of 5¢ for each TSA Random sold during the prior year. The bad news is that TSA sales this past year amounted to only 8,105 units which calculates to a contribution of $405.20. The good news is that Best Block Company has been generous to add $1,000.00 to this contribution.

The Wisconsin Architect Foundation publicly thanks Best Block Company for its continued support to the WAF and solicits WSA members to consider specifying the TSA Random.

LIQUIDATED DAMAGES — UNDERSTAND HOW THEY WORK

A recent New York Supreme Court emphasizes the realities of liquidated damages clauses.

A construction contract clause that called for the contractor to pay liquidated damages of $2,000 per day for each day it was late in completing a construction project was interpreted to stop the owner from collecting actual delay damages that were greater than that amount.

The New York Court reconfirmed the well established principle that a valid provision in a contract for liquidated damages controls the rights of the parties in the event of a breach of contract . . . notwithstanding that the agreed upon amount of damages is less than the actual damages incurred by the injured.

Liquidated damages provisions benefited both parties. The contractor is protected since such a provision insulates the contractor against claims in excess of the amount agreed to in the contract.

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When you confer with others in your industry (whether you're selling architecture, widgets, legal services, or plumbing fixtures), there are certain topics which should never be discussed. These are matters that could subject you to prosecution under the anti trust laws, violations of which can bring fines of up to $100,000 for individuals and up to $1,000,000 for corporations, as well as jail terms for up to three years.

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Current or future prices.
What constitutes fair profits.
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Boycott of certain customers.

If you're going to meet with competitors and are considering discussing these topics, consult your attorney.

STUBENRAUCH RECEIVES BEST BLOCK AWARD OF EXCELLENCE

The Sheboygan County YMCA Camp Y-Koda has received the first annual Best Block Award of Excellence. Designed by The Stubenrauch Associates, Inc., John Versey, AIA, Project Architect, the project utilizes Shadow Stone in the construction of an addition consisting of a multi-purpose room into conference rooms.

In recognition of the design excellence embodied in this project, a donation of $1,000 will be made to the Wisconsin Architects Foundation by Best Block Company in the name of The Stubenrauch Associates, Inc.

WISCONSIN ARCHITECTURAL ARCHIVES ALIVE AND WELL

The Wisconsin Architectural Archives (WAA) is alive, well, and available for your use and contribution.

The WAA is a unique, pioneer project which provides a means of collecting and preserving the cultural history of Wisconsin architecture. Before the establishment of the WAA, valuable records were gradually disappearing, leaving only isolated drawings and small collections in scattered libraries, historical societies, and in private collections.

The WAA currently has many thousands of projects representing well over 200 architects and 4000 projects in its collection.

You are invited to visit the WAA soon, at the Milwaukee Public Library, 814 West Wisconsin Avenue. If you would like to consider a donation to the WAA, contact Thomas L Schweiker, 2659 No. Terrace Avenue, Milwaukee, WI 53211, 414-962-5485, or at the Wisconsin Architect and Archive, 414-278-3897.
APPROVAL OF SHOP DRAWINGS

The phone rang at the WSA Office and an inquiring voice wanted to know what the recommended Shop Drawings stamp language is.

Do you know the answer?

See page 8 of Chapter 18 of the Architect's Handbook of Professional Practice.

THE FOUNTAIN OF INFORMATION

One cubic foot of anthracite coal weighs about 53 pounds.

DAVE LAWSON AND BOB BECKLEY ELECTED TO AIA COLLEGE OF FELLOWS

David E. Lawson, of Madison, and Bob Beckley, of Milwaukee, have been elected to the College of Fellows of the American Institute of Architects.

Fellowship is a lifetime honor bestowed for outstanding contribution to the profession. Investiture of the newly elected Fellows will take place as part of the annual Convention of the AIA to be held in San Francisco June 9-12, 1985.

Dave, Executive Vice President of the Madison architectural firm of Potter Lawson and Pawlowsky, Inc., has combined his architectural career with a heavy involvement in both WSA and AIA activities.

Dave’s involvement with the Wisconsin Society of Architects goes back over a decade. For 10 years he chaired the WSA's Legislative Committee, in addition to serving a term as WSA President, WSA Vice President, and spending 10 years on the Board of Directors of the Wisconsin Society of Architects Political Action Committee.

During the past 2½ years Dave has served as the director to the AIA's Board of Directors representing the North Central Region (Wisconsin, Minnesota, North Dakota and South Dakota). He has appeared before national, regional, state, and local organizations on behalf of the AIA. He has been a strong proponent of AIA. He has been a strong proponent of competence based selection of architects, and has been actively involved in promoting increased participation by the architectural community in the formation of public policy impacting on architecture and the built environment.

Dave has recently announced his candidacy for one of three Vice President positions of the AIA to be elected at the forthcoming San Francisco Convention.

Congratulations Dave.
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Bob Beckley, is a professor with the Department of Architecture at UWM-SARUP and also a principal in the Milwaukee firm of Beckley/Myers.

Bob has achieved national recognition and distinction for his leadership in architectural education. His writings and observations on architectural education and the profession have been published nationally. He has been selected to serve as a Board member and Treasurer of Association of Collegiate Schools of Architecture. He has previously served as Chairman of the Department of Architecture at UWM-SARUP and has been instrumental in developing a visiting critiques position at the Department which has allowed distinguished practitioners to teach honors studios. Bob also serves on the Board of Wisconsin Architects Foundation.

Bob also has achieved national recognition for his architectural research. This research has been cited for its contribution to architectural design by the National Endowment for the Arts and Progressive Architecture magazine.

Bob’s professional accomplishments have focused on urban design and his work has been recognized in national competitions and awards programs.

Congratulations Bob.

The Wisconsin Society of Architects is pleased to have both Bob and Dave elected into the College of Fellows of the American Institute of Architects.

MEMBERSHIP ACTION

MARTIN, TERRENCE W., was approved for AIA Membership in the Northeast Wisconsin Chapter.
KULAK, DENNIS M., was approved for AIA Membership in the Southeast Wisconsin Chapter.
JURISSON, JACK, was approved for AIA Membership in the Southeast Wisconsin Chapter.
UHEN, GREGORY J., was approved for AIA Membership in the Southeast Wisconsin Chapter.
EWANOWSKI, DAVID J., was approved for Assoc. Membership in the Southeast Wisconsin Chapter.
Piper, Daniel S., was approved for Student Membership in the Southeast Wisconsin Chapter.
HAAG, TED R., was approved for AIA Membership in the Southeast Wisconsin Chapter.
SCHULTZ, PAUL R., was approved for AIA Membership in the Southeast Wisconsin Chapter.
FESENFELD, LARRY G., was approved for AIA Membership in the Southeast Wisconsin Chapter.
BRAUN, PAUL F., was approved for Student Membership in the Southeast Wisconsin Chapter.
KADOW, MICHAEL K., was approved for Assoc. Membership in the Northeast Wisconsin Chapter.
SALMONA, ANNIE M., was approved for Student Membership in the Southeast Wisconsin Chapter.
PEOPLE & PLACES

DENNIS OLSON, AIA of Appleton and R.E. (MIKE) VANDER WERFF, AIA of Appleton have joined forces and opened a new office. The firm will be known as ARCHITECTS & ASSOCIATES, 129 E. College, Suite 200, Appleton, WI 54911. (414) 730-0055.

FRANCESCHI ASSOCIATES, INC. have relocated their offices to 10620 N. Port Washington Road, Mequon, Wisconsin 53092. (414) 241-4100.

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   Search and Screen Committee
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THERMA-STOR PRODUCTS GROUP of DEC International introduces a line of ultra-efficient Heat Pump Water Heaters for commercial and light industrial applications. Model HP 120-18 is an air-conditioning water heater providing one ton by-product A/C and dehumidification while heating water at 1/4 to 1/2 the cost of conventional electric or gas. All-electric unit designed to reduce demand charge, minimize maintenance, and circumvent need for exhaust venting or utility room fireproofing.

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THE AMERICAN PLYWOOD ASSOCIATION is offering a construction guide that describes structural wood panel roof systems for nonresidential construction. The 24-page guide provides tips on selecting and specifying APA panels and describes panel roof systems for built-in-place roofs, bonded roofs, preframed or panelized roofs, and long span systems. Diaphragm designs, insulation, rain and wind-rated systems, insurance rates, and construction cost estimating are also covered. For a free single copy of APA Design/Construction Guide, “Nonresidential Roof Systems,” write the American Plywood Association, P.O. Box 11700, Tacoma, Washington 98411, and request Form A310.
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