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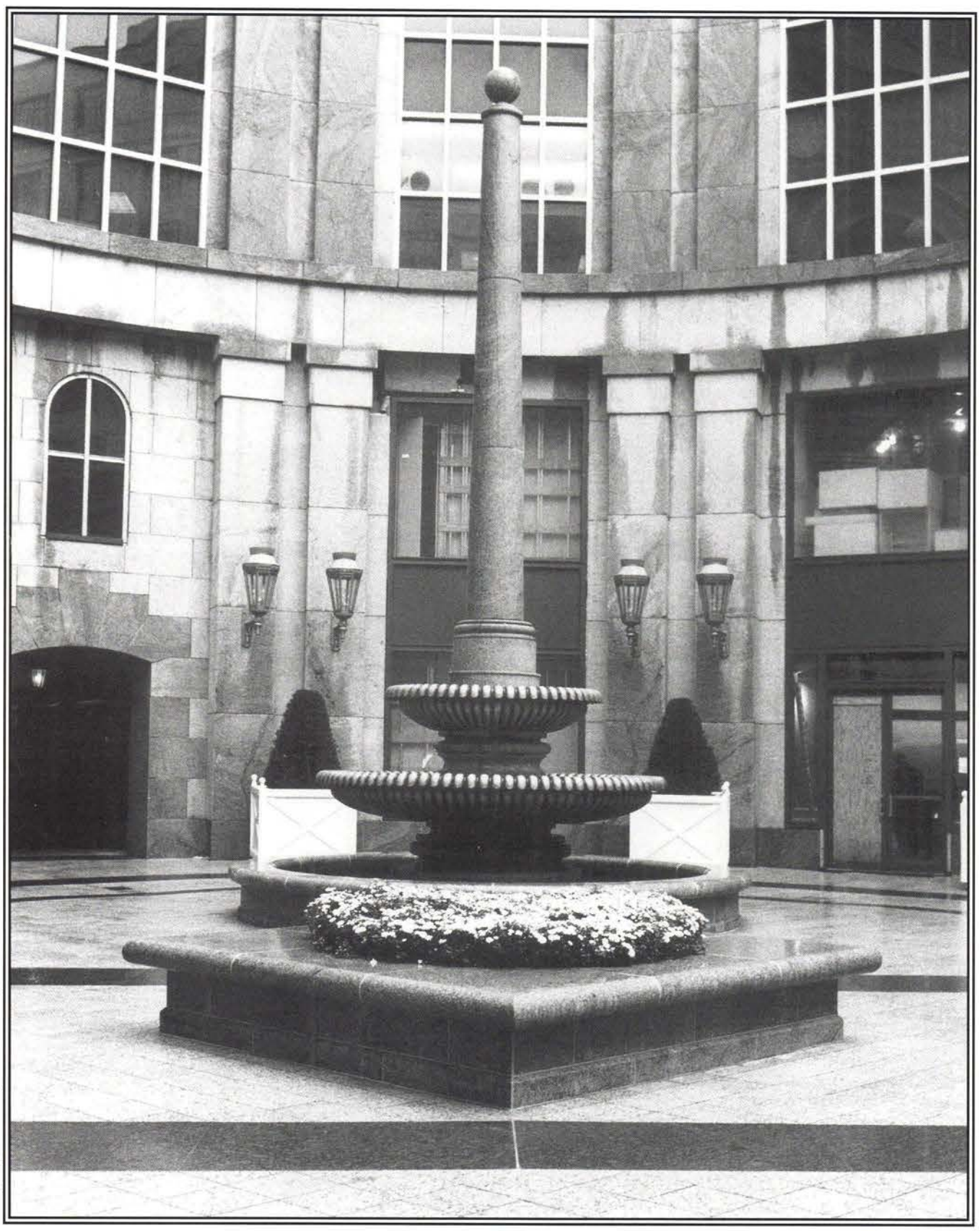

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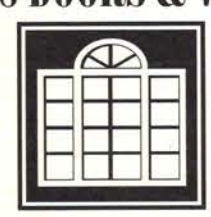

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CLASSICAL NEW YORK, CLASSICAL AMERICA

A TWO-DAY SEMINAR & WORKSHOP ON THE ARCHITECTURAL LEGACY OF AMERICA'S PREMIER CITY

SATURDAY & SUNDAY, NOVEMBER 2 & 3, 1996

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DAY ONE - SATURDAY, NOVEMBER 2 - LECTURES

Tishman Auditorium, Vanderbilt Hall, New York University School of Law, Washington Square So., Greenwich Village, NYC

■ 9:15 **Opening Remarks**

■ 9:30 **"Classical New York: The Great Architectural Tradition"**
David Garrard Lowe, *author, educator, President of the Beaux-Arts Alliance*
This talk will focus on the long tradition of the classical in New York. Beginning with the first monuments in the 18th century, the rapid development of the tradition that followed will be charted and interpreted, with a particular emphasis on the climactic period of the American Renaissance.

■ 10:15 **"Digging It: The Archaeology of New York City"**
Celia Bergoffen, *New York University*
Though we often associate archaeology with the study of ancient lands and cities, New York also has a past which becomes visible only by looking beyond its current appearance. An archaeologist and educator explores the now hidden features of New York that have helped determine the course of its development since its earliest days, and how one can research this information today.

■ 10:45 **"Great Clubs of New York"**
Gary Brewer, *Robert A.M. Stern Architects*
Designed for leisure, reflection, and social engagement, the Clubs of New York represent some of the most remarkable and accomplished architecture in the city. They also constitute an important case study of how traditionalist architects respond to new building types by adapting earlier conventions to new requirements. A look at some of these buildings and interiors will reveal a design approach that continues to serve as a model for traditionalist design today.

■ 11:30 **"From Temples to Towers: Form and Structure in the Tall Classical Building"**
Donald Friedman, *Principal of Friedman & Oppenheimer, LLP*
Developing rapidly by the late 19th century, the technology of the modern tall building coincided with the peak of popularity of the classical movement in America. An authority on historic building construction discusses the many ingenious ways in which the architects of the first skyscraper age reconciled an ancient architectural system with the newest structural and mechanical features then available.

■ 12:00 **"Rosario Candela: New York's Finest Pre-War Designer"**
David Netto, *20th century historian*
By the first decade of the twentieth century, the high rise apartment building had become a fixture on the urban landscape, and some of New York's greatest talents would be applied to their design. Among these designers, Rosario Candela stands out for his extraordinarily innovative and imaginative reworkings of the conventional arrangement of apartments. Here's a look at this exceptional and long neglected body of work.

■ 12:30 **Luncheon courtesy of Chadsworth 1.800.COLUMNS**
Greenburg Auditorium, Vanderbilt Hall, New York University School of Law

■ 2:00 **"The New York Townhouse, 1890-1930"**
Mark Hewitt, *author, educator, Principal of Hewitt Architects*
One of New York's significant contributions to 20th century domestic architecture is its vast array of distinguished townhouses. This lecture will survey the work of such masters as Delano & Aldrich, Mott Schmidt, and Horace Trumbauer, and how they contributed to the aesthetic, functional, and technological advancement of this important urban building type.

■ 2:45 **"Civic Grandeur: Monumental Public Buildings and Spaces of New York"**
Tom Mellins, *author, Robert A.M. Stern Architects*
For many, the consummate value of architectural classicism is its ability to make legible and beautify the public realm. Following this principle, and inspired by Chicago's 1893 Columbian Exposition, New York began to transform itself into a metropolis by constructing some of the greatest public edifices the nation had ever seen. A coauthor of *New York 1930* presents a selection of the city's finest civic projects, and discusses the cosmopolitan ideals that define these urban landmarks.

■ 3:30 **"Monumental Lettering and Inscriptions in New York"**
Kate Ottavino, *A. Ottavino Corporation*
All around the city are examples of writing on the wall — monumental lettering and inscriptions commemorating or heralding important events, people, and places. This talk highlights some of New York's more notable examples of architectural typography and examines the aesthetic and practical factors that guide their creation.

■ 4:00 **"Back to the Future: Contemporary Classical Design and Urbanism in New York and America"**
Charles Warren, *Principal of Charles Warren & Associates*
Most conventional histories suggest that the practice of architectural classicism ended with the Second World War. Closer examination, however, reveals a considerable body of traditionalist work to have been produced in recent times. A New York architect reviews some of the persons and firms currently working in this enduring tradition, and how they have extended it to suit modern circumstance.

Full program description and times for Day Two Workshops, Demonstrations & Walking Tours are printed on the coupon below.

For more information about the Seminar, call the Seminar Coordinator at Traditional Building Magazine 718.636.0788, or fax 718.636-0750. For information about the activities of the Institute for the Study of Classical Architecture, call 212.570.7374, or fax 212.627.5740.

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☐ **Please reserve 1 place @ $175 (total) for both days**
(Students pay 1/2 price with valid identification; $10 fee for all registrants at door)

Please indicate what activities you would like to enroll in on Day 2 by checking the boxes at the right. ***You may only attend one morning event and one afternoon event.*** Classes will be limited and filled on a first-come, first-served basis, so please indicate second and third choices for both morning and afternoon sessions (in the boxes), in the event your first choices are closed.

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DAY TWO - Workshops/Demonstrations/Walking Tours

Sun., Nov. 3 - The Real Estate Institute, New York University, 11 W. 42nd St., 4th fl., NYC

MORNING SESSION 10:00-1:00 WORKSHOPS

☐ **Moldings: Drawing & Terminolgy** *(Donald M. Rattner) - How to identify and draw geometrically the different types of moldings; criteria for selecting moldings based on shape and architectural function*

☐ **The Classical Orders of Architecture in New York: Case Studies** *(Martin Brandwein) - Identify and construct the components that make up the classical orders; draw an order based on a New York example*

☐ **Proportion: The Philosophical Aspects** *(Steve Bass) - Basis of artistic system of proportion in ancient Platonic and Pythagorean philosophy; application to contemporary design projects*

☐ **Drawing Classical Ornament** *(Stephen Chrisman) - Characteristics of classical ornament; geometric, botanic, zoomorphic, architectural types of motifs; arrangements — radial, diaper, arabesque*

☐ **Sculpting Classical Ornament** *(Rocco Leonardis) - Carve egg-and-dart, leaf-and-dart, and bead-and-reel from modeling clay*

☐ **Traditional Wash Rendering: India Ink** *(Richard Cameron) - Review materials; grinding ink; flat, graded, and textures washes; attaining effects of transparency; examples of traditional rendering techniques*

MORNING SESSION 10:00-1:00 WALKING TOURS

☐ **Greek Revival New York** *(Scott Heyl) - Sites include: Old Merchant's House, Washington Square North, Colonnade Row*

AFTERNOON SESSION 2:00-5:00 WORKSHOPS

☐ **Moldings: Design and Meaning** *(Donald M. Rattner) - Principles in the design of moldings; effects of location, light, and materials on selection of moldings; architectural significance of moldings*

☐ **The Elements of the Classical Interior** *(Steven W. Semes) - Characteristic elements of classical wall treatment — baseboard, wainscot, chairrail, field, cornice; typical trim elements; principles of design*

☐ **Proportion and the Classical Interior: Period Rooms at the Metropolitan Museum** *(James Collins) - Mechanics of architectural proportion; geometric and arithmetic systems; systems used in classical architecture as represented by the Metropolitan Museum's period rooms (note: workshop meets at the museum)*

☐ **Traditional Wash Rendering: Full Color** *(Richard Cameron) - Using prepared commercial ink for mother wash; modern stretching methods; masking and other techniques for running washes*

AFTERNOON SESSION 2:00-5:00 WALKING TOURS

☐ **The Clubs of New York** *(Gary Brewer) - Sites include: Century Association, University Club, Metropolitan Club, Harvard Club, Union Club*

☐ **Great Interiors of New York** *(Rocco Leonardis) - Sites include: Grand Central Station, St. Patrick's Cathedral, Chrysler Building, Rockefeller Center, Frick Mansion*

☐ **20th Century Classical Townhouses** *(Michael Dwyer) - Sites include: Townhouses by Schmidt, Codman, Trumbauer, Delano & Aldrich, and Pope*

WRITE IN NO. 134

RESTORATION/Chicago PREVIEW

This year's fall **RESTORATION** show will be held Oct. 18-20 at Chicago's Navy Pier in conjunction with the 50th National Conference of the National Trust for Historic Preservation. Here's a summary of what you can expect to find at this massive event.

Now in its fourth year, RESTORATION has established itself as the largest and most comprehensive exhibition and conference dedicated to the traditional and historical marketplace. And in October, RESTORATION/Chicago joins forces with two other related events: The National Trust's annual Preservation Conference and the Fall Antiques Show, held concurrently in the adjoining Navy Pier Festival Hall. If you register for the full conference at RESTORATION/Chicago you can attend the Trust's conference sessions at no additional charge, and can also gain entry to the Antiques Show for half price.

In addition to the Exhibit Hall, RESTORATION/Chicago features 36 conference sessions offering a wealth of practical information in a variety of formats: Seminars, workshops & panel discussions conducted by leading technical experts and practitioners. There will also be a series of "Techniques and Technologies Showcases," conducted by Show exhibitors, designed to keep you up to date on latest developments in restoration methods and materials.

SELECTED HIGHLIGHTS

RESTORATION/Chicago Program

Technical Training Sessions

Two concurrent, full-day technical training sessions offer attendees a chance to acquire a greater understanding of the latest materials and methods that define the current practice of restoration. These sessions are designed to give practicing professionals a chance to enhance their knowledge and skills. ***Participation in these sessions is by preregistration only (the deadline is September 30, 1996) and enrollment is limited.*** Topics of the technical training sessions are:

Stone Restoration — The Basics
Thursday, Oct. 17, 8:30 a.m. - 5:00 p.m., Chicago Navy Pier

Rapid growth in the stone restoration industry has led to a proliferation of new products and technologies. This has led to confusion regarding techniques and product use, especially as it relates to older and historic stone installations. Designed for architects, contractors, conservators, craftsmen, maintenance personnel, facility managers, and property owners, the seminar will provide practical "how to" instruction. The day will be divided into six sessions: Identification and Diagnoses of Common Problems, Cleaning Methods, Stain and Graffiti Removal, Repair and Placement, Case Studies, and Maintenance after Restoration.

Instructors: Frederick M. Hueston, National Marble & Stone Consultants, Winter Park, FL, and Charles Kibby, Preservation Arts, San Francisco.

Specifying for Historic Projects
Thursday, October 17, 8:30 a.m. - 5:00 p.m., Chicago Navy Pier

Sponsored by The Construction Specifications Institute, for professionals at all levels of experience, this workshop will cover: Preparing documentation for projects involving historic structures, produced by the CSI and the APTI; learning about research and documentation necessary for restoration projects; field investigation and documentation of historic structures; specifying restoration and renovation projects; mastering techniques needed to produce specialized documents required for these projects; the design professional's role in restoration and renovation projects; and sources of information on restoration materials, methods, and construction.

Instructors: Craig Haney, FCSI, CCS, APT, IntroSpec, Inc., Dallas, TX, and Deborah Slaton, CCS, APT, Wiss, Janney, Elstner Associates, Chicago.

GENERAL PROGRAM

Keynote Address: Global Perspectives on Preservation

John Stubbs, Programs Director, World Monuments Fund. Mr. Stubbs directs the planning and coordination of WMF's field projects and related activities in over 14 countries. Prior to joining World Monuments Fund, he served for 10 years as Assistant Director of Historic Preservation Projects at Beyer Blinder Belle, Architects and Planners in New York City.

Materials And Media Track

Stone Floor Restoration

While an appropriately restored masonry floor can enhance and unify the space which it serves, improper restoration can yield a surface that is historically inaccurate, aesthetically inappropriate, and a maintenance problem for future caretakers. This presentation discusses the appropriate materials and methods for restoring and maintaining stone and masonry flooring.

Instructors: Frederick M. Hueston, National Marble and Stone Consultants, Winter Park, FL and Charles Kibby, Preservation Arts, San Francisco, CA.

Steel Window Restoration

Steel windows, while a major restoration challenge, can be rehabilitated at a cost typically less than that of wholesale replacement. A steel window expert presents several of the technologies currently employed in this new craft, including removal/installation, coatings, glazing, and sealants.

Instructor: Gail Wallace, Restoration Works, Inc., Kankakee, Ill.

Terra Cotta Restoration

Restoration and repair of terra-cotta facades can be complicated due to the nature of the material and its methods of attachment. This session will discuss inspections, evaluation of common problems, repair options, sourcing, and practical advice on installation.

Instructors: Jay Paul and Philip Renouf, Klein and Hoffman, Chicago, Ill.; Tom Sourlis, Sourlis Masonry Restoration, Highland, Ind.

Architectural Cast Metal Ornament

Two industry leaders discuss the "old beginnings, new endings" of cast metal, its development, current challenges, and the future of architectural ornament.

Instructors: J. Scott Howell, V.P. and General Manger, Robinson Iron Corp., Alexander City, Ala.; Robert Baird, V.P., Historical Arts and Castings, West Jordan, Utah.

Decay in Natural Stone

Presented by one of the country's foremost experts on stone, this session focuses on weathering agents, chemicals, moisture, salts, and other atmospheric factors.

Instructor: Erhard Winkler, Ph.D., Professor Emeritus, University of Notre Dame, South Bend, Ind.

Clay Tile and Slate Roofing

This session will examine issues relating to restoration of clay and slate roofs, including material selection, specifications, sourcing, and installation techniques.

Instructor: James B. Bollinger, Architectural Preservationist, Elsah, Ill.

Understanding Mortar

Insight will be offered on mortar evaluation, appropriate applications, ASTM standards for composition and strength, and the potential benefits and problems of additives. A portion of the session will be devoted to dolomitic lime mortars, their usage, mechanical properties, and specification standards.

Instructors: Edward Gerns, Wiss, Janney, Elstner Associates, Chicago, Ill., and John Speweik, GenLime Group, Genoa, Ohio.

Wood Window Restoration

This session will outline a comprehensive approach for retaining the quality and craftsmanship inherent in many historic windows, including sash joinery, glazing, weight systems, insulating glass, and caulking.

Instructor: Byron Wallace, Jr., Restoration Works, Inc., Kankakee, Ill.

Brick Restoration

Brick is often overlooked in discussions of masonry restoration, but its widespread use and unique characteristics warrant closer attention. Methods for assessing conditions, cleaning, and repairing it will be covered.

Instructors: Anne Sullivan, Johnson-Lasky Architects, Chicago, Ill., and Lesley Gilmore, AIA, Eifler & Associates, Chicago, Ill.

The Exhibit Hall

More than 250 companies will be exhibiting their products and conducting live demonstrations. As of press time for this issue, the following companies had reserved exhibit space:

A.B. Chance Co.
Abatron, Inc.
AGS/Anti-Graffiti Systems
AL BAR - Wilmette Platers
Allied Window, Inc.
American Assn. of Museums
American Home Supply
Am. Institute of Architects
Am. Soc. of Interior Designers
Ann Wallace & Friends
APTI - Assn. for Pres. Technology
Architectural Grille
Atelier Duchemin
Authentic Pine Floors, Inc.
Ball Consulting
Belmont Technical College
Bernacki & Los/Oakley
Bird-X, Inc.
Birdmaster
Birdproof Incorporated
Blair Joinery
Boston Valley Terra Cotta
Bovard Studio, Inc.
Bradbury & Bradbury Art Wallpapers
Brass Light Gallery, Inc.
J.R. Burrows & Co.
John Canning Studios
CD/esign
Chicago Conservation Center
Christman Company
Cleveland Quarries
CLS Cintec
Colonial Homes
Conrad Schmitt Studios
Construction Specifications Institute
Country Living
Crown City Hardware Co.
Crown Corp.
Custom Window Co.
Dahlgrens, Inc.
De Piery & Duchemin Intl.
Designer Doors
Dimensional Stone Institute
Dixie Enterprises
Downstate Restorations
Dur-O-Wal, Inc.
Early American Homes Magazine
EDI Window Systems
Energy Products Importers
EverGreene Painting Studios
Facilitrade International
Fine Paints of Europe
Frank Lloyd Wright Building Conservancy
GenLime Group, L.P.
Glowcore A.C.
GS Images
Gunnebo Fastening Corp.
Hayles & Howe
Heatway, Inc.
Helifix Ltd.
Hendricks Woodworking
Historical Arts & Casting Inc.
Historical Publishing Network
HMK Stone Care System
Hope's Architectural Products
Ibstock Hathernware Ltd.
Illinois Historic Preservation Agency
Interior Decorators' Handbook
Int'l Interior Design Association
International Masonry Institute
Johnson Atelier
Joinery Co.
JOS
Journal of Light Construction
Kennebec Co.
Kremer Pigments
Lamb Photography
Landmarks Preservation Council of IL
Langhorne Carpet Co.
Liz's Antique Hardware
Longstreet Renovation
Ludowici Roof Tile, Inc.
Mexico Porphyry and Stones
Midland Engineering Co.
Miller Wagenaar Studio
Minerva Corp.
Minton Hollins/H&R Johnson
Minuteman International Co.
Mortenson Roofing Co.
National Trust for Historic Pres.
Natural Stone Restoration, Inc.
New England Slate Co.
New Metal Crafts
Newfoundland Slate, Inc.
Nikolas & Co.
Nixon Design
North American Bocker Roofing & Construction
Northern Roof Tile Sales Co.
Old House Journal
Old-House Interiors
Perspectives Educational Films
Prazi USA
Preservation Products
Quirk Consulting Services
Rejuvenation Lamp & Fixture Co.
Renaissance Art & Restoration
Renaissance Roofing
Renovator's Resource
Repair Care Systems
Restoration Works, Inc.
Robinson Iron Corp.
S.H. Christiansen
Salvage One
Savannah College of Art & Design
Seekircher Steel Window Repair
Shadetree Studio
Society of Gilders
Solid/Flue Chimney Systems
St. Louis Antique Lighting Co.
Stained Glass Assn. of America
Stone Products Consultants
Stone World
Stulb's Old Village Paint
Sun Precast Co.
The Guild
Therm-O-Lite, Inc.
Therma-Star Products
Thibaut Wallcoverings
Thomann-Hanry, Inc.
Tile Man, Inc.
Traditional Building
Turncraft
Ty Mawr Classics
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- In conjunction with the National Trust for Historic Preservation's 50th Annual Preservation Conference, shuttle service and cross registration will connect the two events.
- And The Fall Antiques Show will take place October 18-20, in the Pier adjacent to RESTORATION/Chicago. Cross-registration with RESTORATION will be available here, too.

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WRITE IN NO. 338

RESTORATION/Chicago PREVIEW

Stained Glass Window Protection

Inspired Partnerships conducted an extensive survey on the virtues and liabilities of various storm window or "protective glazing" installations for stained-glass windows. This session will review the findings of the year-long analysis and highlight those practices deemed appropriate and beneficial.

Instructors: Arthur Femenella, Femenella & Assoc., Annandale, NJ, and Neal Vogel, Inspired Partnerships, Chicago, Ill.

Issues In Preservation Track

The State of Craftsmanship Training

As interest in preserving cultural heritage grows, so does the need to equip people with the skills necessary to restore, conserve, and maintain historic resources. This session looks at training, certification, technology, job security — and the role of the organized trades.

Instructors: Nelson Rodgers, Center for Canadian Heritage Trades and Technology, Algonquin College, Perth, Ont., David Mertz, Building Preservation Technology, Belmont Technical College, St. Clairsville, Ohio.

Mural Conservation at the Lincoln Memorial

Under the direction of the National Park Service, canvas murals at the Lincoln Memorial in Washington, D.C., are undergoing intensive conservation. Client and conservator share their perspectives on methods used to manage the project's numerous technical components, from preliminary study to treatment.

Instructor: Audrey Tepper, Historical Architect, National Park Service, Fairfax, VA, and Christiana Cunningham-Adams, FAIC, Cunningham-Adams, Sandy Hook, Conn.

Moisture in Buildings

This complex topic subject will be addressed by a holistic approach — one that encompasses not only the structure, but also the furnishings, collections, and activities of its occupants.

Instructor: Ernest Conrad, PE, Landmark Facilities Group, East Norwalk, Conn.

Fire Suppression in Historic Structures

Complying with fire-safety codes in historic structures is always a juggling act. Panelists will discuss ways of introducing new technologies (some borrowed from other industries) into historically sensitive spaces.

Instructors: Nick Artim, Fire-Safety Network, Middlebury, Vt.; Ernest Conrad, PE, Landmark Facilities Group, East Norwalk, Conn.; Sheryl Hack, Canterbury Shaker Village, Canterbury, N.H.

Lighting Historic Spaces

This session's speakers will describe ways to define and successfully resolve challenges associated with lighting historic spaces. Issues include: Modern light-level requirements, historic fixtures, value engineering, and preparation of bid specifications.

Instructors: Gary Behm, St. Louis Antique Lighting, St. Louis, MO, and John Greer, Witsell Evans Rasco, Little Rock, AR.

Conserving 20th-Century Materials

This session will focus on materials commonly used in early 20th-century construction: Terra cotta, Guastavino tile, marble, brick, glass block, leaded glass, and ornamental metals.

Instructors: Glenn Boornazian & Joel Snodgrass, Integrated Conservation Resources, N.Y., N.Y.; Julie Sloan, McKernan, Satterlee Associates, Brewster, N.Y.; John Scott, New York Conservation Center, N.Y., N.Y.

The Streets of Chicago

Incorporating National Historic Landmark elements of Daniel Burham's visionary plan of 1909, the renovation of the Congress Street and Bilboa viaducts encompassed the disciplines of civil engineering, architecture, conservation, and landscaping.

Instructor: Howard Decker, AIA, Decker Legge Kemp, Chicago, Ill.

Locating Historic Materials

There is perhaps nothing more frustrating, and ultimately more rewarding, than tracking down a missing or coveted architectural element, be it the original or a reproduction. Veteran sleuths will discuss various strategies for identifying, locating, and acquiring that elusive object.

Instructor: Clem Labine, Traditional Building Magazine, Brooklyn, N.Y.; John Craib-Cox, ASID, IIDA, Registered Interior Designer, Chicago, Ill.; Beau Kimball, Manager, Salvage One, Chicago, Ill.

Wright at Wingspread

A National Historic Landmark designed by Frank Lloyd Wright in 1938, "Wingspread" is undergoing an extensive structural stabilization program incorporating innovative technologies and materials. Presenting the issues from their perspectives of client, designer, and contractor, the project team will discuss the collective will required to move from theory to implementation.

Instructors: Annabelle Radcliffe-Trenner, Hillier Group, Princeton, N.J.; Robert Silman, Robert Silman Associates, N.Y., N.Y.; Kirsten Kingsley, Vinci/Hamp Architects, Chicago, Ill.; Robert Stelter, Bentley and Son, Milwaukee, WI; Scott Weas, Johnson Foundation, Racine, Wis.

Wright Redux

Frank Lloyd Wright would be intrigued by the use of analytical technologies during recent restoration projects at two of his Wisconsin masterworks. The sophisticated 3-D analysis of the roof structure at the Unitarian Meeting House in Madison and the computerized analysis of acoustical treatments in the Great Room of the S.C. Johnson Wax Co. headquarters in Racine will be featured.

Instructors: John Thorpe, Architect, Chicago; Jonathan Lipman, AIA Architect, Fairfield, Iowa, and President, Frank Lloyd Wright Building Conservancy; Peter Szotkowski, Flatt & Associates; Howard Schecter, Acoustical Engineer

Home Design

Interiors by the Book

For those seeking to retain more than just the "look and feel" of authenticity of their interior spaces, this seminar will discuss a method for successfully designing and executing interior projects that meet preservation guidelines while also satisfying the demands of modern life.

Instructor: John Craib-Cox, ASID, IIDA, John Craib-Cox Associates, Chicago, Ill.

Inside the Bungalow: The Arts & Crafts Interior

Beginning with a fresh overview of the American Arts & Crafts interior — then and now — this session will include a discussion of several newly discovered period interiors. Also offered will be a detailed look at pattern and color in the bungalow, including background on the various methods of wallpaper production in the early 20th century, and the methods available for reproduction of historic pattern today.

Instructors: Paul Duchscherer, Interior Designer, Historian and Author, San Francisco, Calif., and Bruce Bradbury, Bradbury & Bradbury Art Wallpapers, Bencia, Calif.

Creating Prairie Style Interiors

One of the country's foremost authorities on Frank Lloyd Wright and the Prairie Style tells how to create Prairie-inspired spaces: First an overview of the Prairie Style, then guidance on successfully balancing the elements of design, materials, color, and furnishings.

Instructor: Thomas Heinz, Heinz and Company, Evanston, Ill.

The Chicago Bungalow

Decidedly practical and straightforward in its use of space, site, and materials, this essentially modest house style is one of the most prevalent in the country. Throughout Chicagoland, thousands of "Chicago Bungalows" were built. Learn about the origins and stylistic development of this regional vernacular form.

Instructor: Maggie Kelly, Chicago Historical Society, Chicago, Ill.

These highlights are only a sampling of what you'll find in the full Conference Program. For complete program and registration details, call (508) 664-8066, or FAX (508) 664-5822.

The William Morris Centennial

In this, the centennial year of William Morris' death, the RESTORATION/Chicago program pays special tribute to this design genius with sessions that include:

William Morris and America

William Morris never visited America, but the English Arts & Crafts Movement, led by Morris, had a strong influence on the style of American decorative arts and interiors. This included the revival of interest in the old-fashioned houses and furniture of the Colonial period. In this session, the eclectic look of early Arts & Crafts interiors in America will be explored, including work of leading architects and designers of the period. The current revival of this style will also be shown.

Instructors: John Burrows, J.R. Burrows & Co., Rockland, Mass., and Todd Schwebel, Schwebel Co., Chicago, Ill.

Morris & Co. Products and Designs

The designing and manufacturing genius of William Morris will be shown through an overview of textiles, wallpaper, furniture, and design accessories. The application of these designs to an American interior will be illustrated with the 1880s work of a Chicago interior designer for a country house on the Mississippi River.

Instructors: Joan Hansen, Architectural Historian, Chicago, Ill., and Mary Antoine de Julio, State Historical Society of Wisconsin, Prairie du Chien, Wis.

Morris Design Ideas for the Home

Practical advice on period-inspired interiors, using the words and designs of William Morris, will illustrate the guidance originally given by Morris and his colleagues and how it was put into practice, with consideration on how the designs can be best used in houses today. This session will conclude with a panel discussion on design solutions using Morris products in home interiors; audience questions will be welcomed.

Instructors: John Burrows, J.R. Burrows & Co., Rockland, Mass.; Michael FitzSimmons, Michael FitzSimmons Decorative Arts, Chicago, Ill.; Paul Duchscherer, Interior Designer, Historian and Author, San Francisco, Calif.

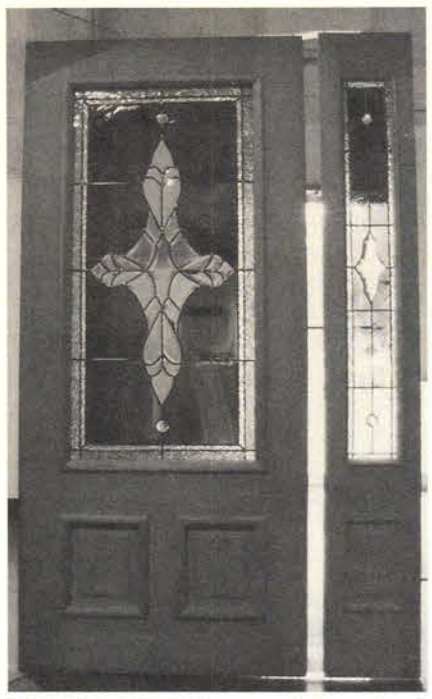
CLS CINTEC anchors were employed by 55 Wabash (the Chicago Jewelry Exchange). Failure of the original anchoring system required Golf Construction to tie loosening terra-cotta elements back to the building's steel frame. CINTEC will be exhibiting its unique sock-and-pin masonry anchoring system at the Show. *Write in No. 705*

JOHN CANNING & CO. was commissioned to restore the sky ceiling in the Grand Central Terminal, New York City, which depicts the Milky Way and Zodiac star signs. Here, conservator Felicity Campbell works on a test sample. John Canning will present and discuss the restoration project in one of the RESTORATION/Chicago seminars. *Write in No. 510*

Bruce Bradbury discusses interior patterns and colors "Inside the Bungalow," during a RESTORATION/Chicago seminar. Shown is BRADBURY & BRADBURY's "Lion and Dove" frieze Edwardian wallpaper. *(Photo: Jeremy Samuelson)*

RESTORATION/Chicago PREVIEW

This 8-in. heart pine flooring in this kitchen is from **AUTHENTIC PINE FLOORS.** *Write in No. 109*



BOVARD STUDIO created the stained glass panels for this entrance door and side lite. *Write in No. 769*

The Pabst Lamp features a solid cast brass backplate and arm, available in a variety of finish options, from BRASS LIGHT GALLERY. *Write in No. 889*

BIRD X, INC. manufactures pest and bird repellers for a variety of situations, including the sonic repeller, "BirdXPeller." *Write in No. 323*

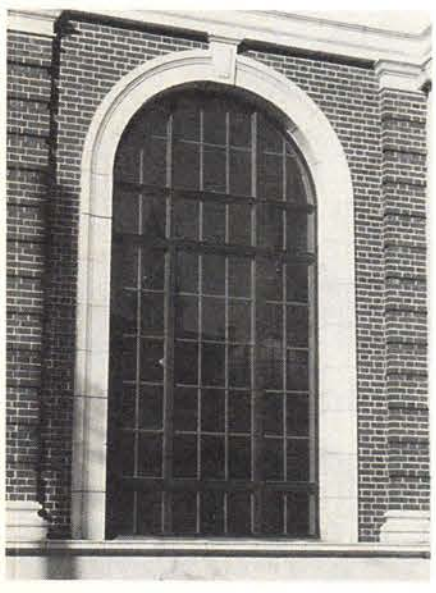
JOHNSON ATELIER works on casting, reproduction, and restoration in a large variety of materials. *Write in No. 733*

The Washington Park, a solid brass Sheffield-style reproduction chandelier, is from the REJUVENATION LAMP & FIXTURE catalog. *Write in No. 763*

J.R. BURROWS & CO.'s "Stag" wallpaper is an original C.F.A. Voysey design. Voysey's textiles were popular with Gustav Stickley and the Arts & Crafts movement. *Write in No. 693*

Hand-crafted electric fires, popularized in England, are the specialty of IMPERIAL FIRES. *Write in No. 635*

The Princeton, from HENDRICKS WOODWORKING, is a versatile style that can be built as half-round, square, arched, or gothic arched door. *Write in No. 357*

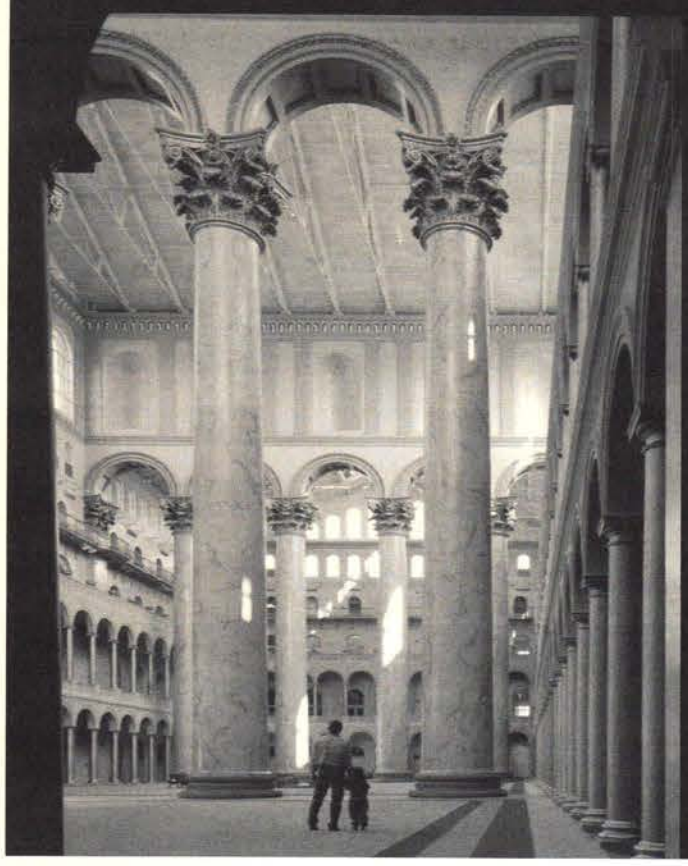


The train station in Covington, KY, is fitted with ALLIED WINDOWS bronze arched storm windows. *Write in No. 69*

ABATRON's product line includes structural epoxies for concrete repairs, crack repair systems, and wood epoxies like the one shown here. *Write in No. 130*

Sponges and brushes are used to create effects with this graining and glazing liquid from STULB'S OLD VILLAGE PAINTS. *Write in No. 110*

DAVID LAMB PHOTOGRAPHY



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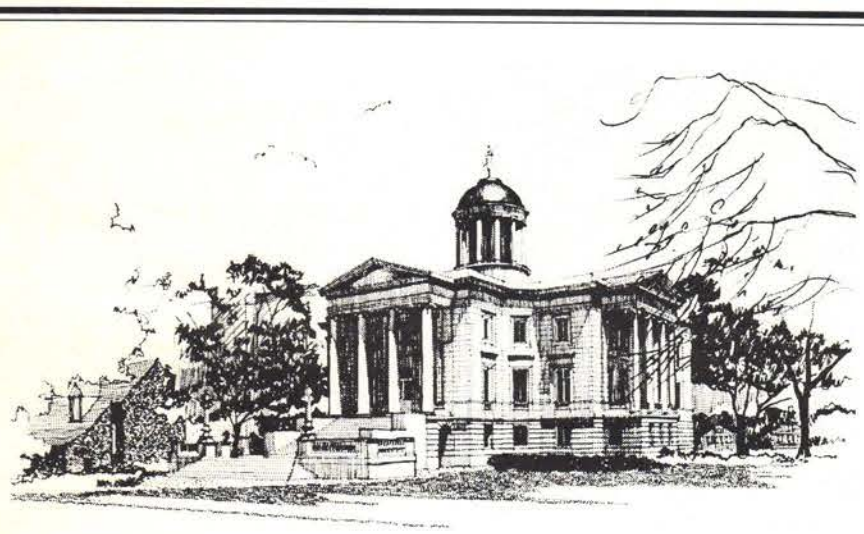

Somerset County Courthouse, Somerville, New Jersey
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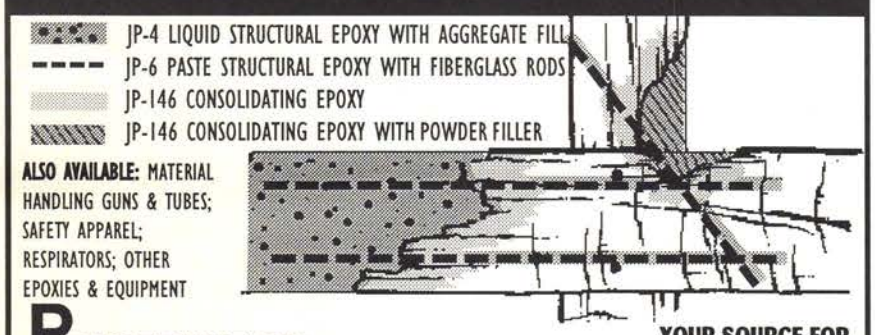

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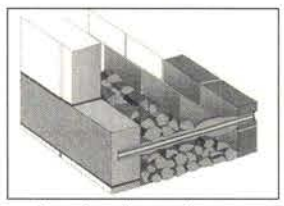
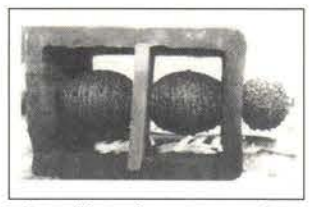
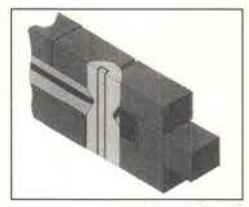


Traditional stitching anchor inserted through random rubble



Enhanced fixing for terra cotta and hollow masonry



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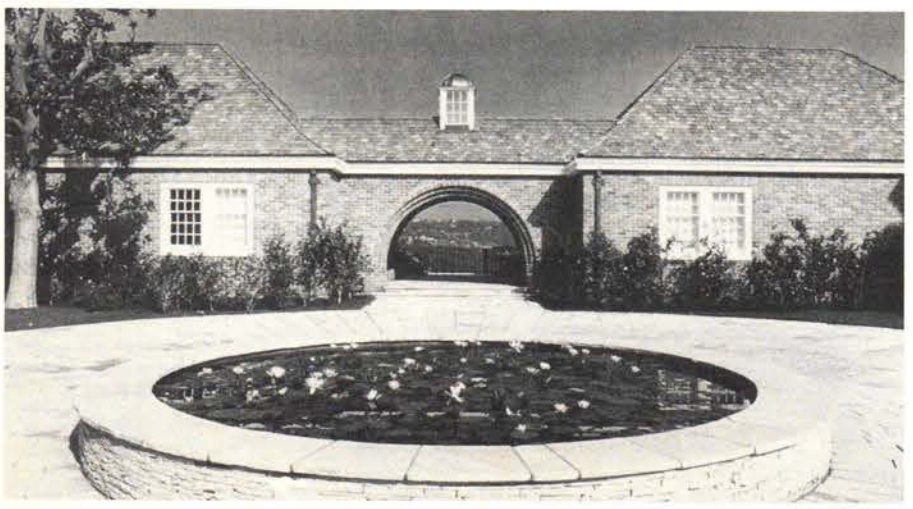
Good architecture, whether Georgian country estate or California tract house, reflects and respects its immediate surroundings. The work of Appleton & Associates demonstrates how finely balanced the relationship between architecture and landscape design can be.

BY KATHLEEN RANDALL

Appleton & Associates, Inc., in Venice, Calif., can design and build a proper Georgian estate, complete with grounds and gardens as stunning as its 18th-century English progenitors. While some may find this a reassuring thought, to others it is a bit disconcerting at the close of the 20th century — the century that tossed Classical styles and their formal rules to the wind. Yet even the most wary can admire Appleton & Associates' graceful command of a full range of historical, traditional styles and regional, modern architecture.

Looking back through the poplar allée, the Zanuck residence is stately, but not overwhelming, due to the perfectly scaled detail. The chunky chimney is very Georgian. The materials are tried and true: Brick, limestone, slate, tile roofing, and flagstone paving. *(Photo: Alex Vertikoff)*

Inside the Zanuck residence, crisp and elegant detail abounds. In this breakfast room, and throughout the house, multipaned sash of large windows and French doors flood the interior spaces with light. *(Photo: Alex Vertikoff)*



The strong horizontal line of the east wing of the Zanuck house is interrupted by a graceful brick arch, making views of the hills beyond the house part of the architecture. *(Photo: Alex Vertikoff)*

History, Briefly Considered

With the arrival of the 20th century, aesthetic criteria that had dominated European architecture and landscape design since at least the Renaissance were jolted by the loosely defined tenets of the Modern movement. After the final flush of American estate building and the fervor of the City Beautiful movement from the 1890s to 1930s, Classical design was quietly set aside for special occasions.

Debate, however, has never ceased on the question of Classical architecture's contemporary value, particularly as applied to landscape design. Proponents of the formal landscape in domestic architecture have long argued that Classical-based models were simply an architectural treatment of the landscape — the only suitable means of extending the principles applying to a structure's architecture the ground surrounding it. Opponents insist the less formal picturesque landscape garden, even modern interpretations, can accomplish the same goal.

Philosophy Built on History

Marc Appleton, AIA, principal of Appleton & Associates, adheres to a design philosophy that is both historically grounded and reflective of the changes brought by the Modern movement. Appleton believes architects have always been interested in the landscape, but in the 20th century the strident iconoclasm of much modern architecture, intent on a clean break with the familiar past, often relied on disconnection from the landscape. Landscape design did not disappear; it became iconoclastic as well. "Today," Appleton notes, "we are not as captivated by the shock value of modern forms" — the shock having long since worn off. The ebbing of modernist orthodoxy may be reopening the way for a more integrated architecure and landscape.

Appleton & Associates' work includes projects in Classical, traditional, and vernacular styles, and what might be called regionally tuned modern — all exceptionally well executed. Appleton is unapologetic about his attraction to historical styles. "We are revivalists; our inspiration is often guided by historical precedent and the desire to capture the romance of a particular place." When he and a client start with a shared architectural tradition and context in mind, it frees him from the pressures of creating a more personal, invented, "signature" architecture. "I'd rather risk anonymity . . . it appeals to me," says Appleton. Working within a traditional or vernacular language is not something Appleton considers a limitation. He firmly believes design can flourish within these bounds, that "creativity does not mean inventing a whole new language." As specific references for his work, Appleton names Palladio, Sir Edwin Lutyens, Charles Platt, and G. W. Smith in the same breath as Louis Kahn, Carlo Scarpa, William Wurster, and Luis Barragán. He is quick to acknowledge the debt and considers it a great compliment when someone says his work looks like that of an architect whose work he admires.

Marc Appleton, of Appleton & Associates. 1996 marks the firm's twentieth year of creating architecture that is as much craft as it is art. *(Photo: Appleton & Associates, Inc.)*

Building a Practice

Appleton's academic and professional background is broad. His studies combine a BA in English Literature from Harvard and an MArch from Yale, as well as study in drawing and painting at the La Academia Del Bellas Artes, in Costa Rica. Appleton worked for three firms, including three years in the office of Frank Gehry, before opening his own office in 1976.

Along with his responsibilities at the firm, Appleton puts his architecture and planning skills to use on a variety of community service projects, from neighborhood planning workshops in his own city to the mas-

continued on page 154

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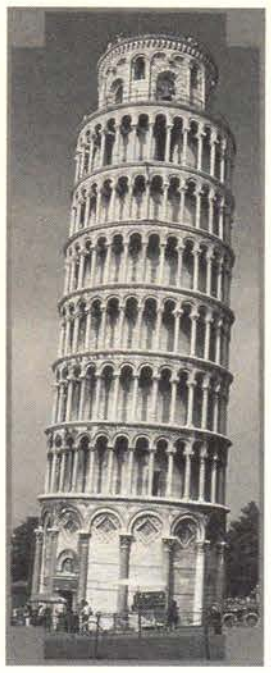

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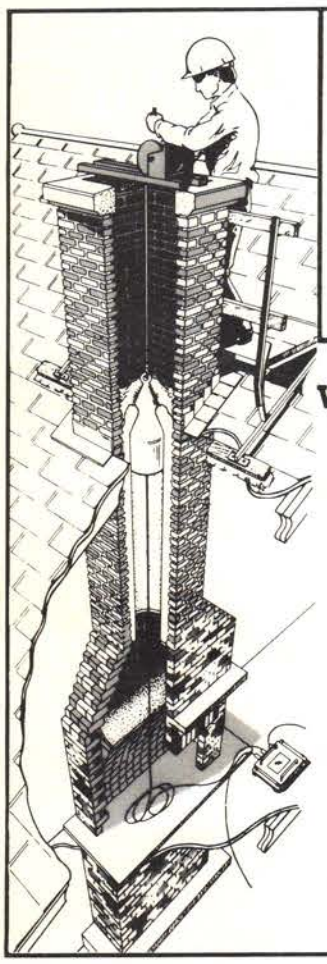

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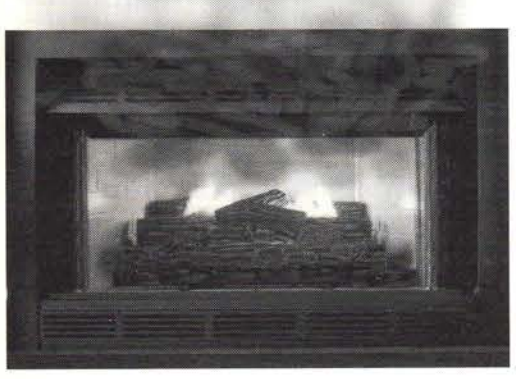

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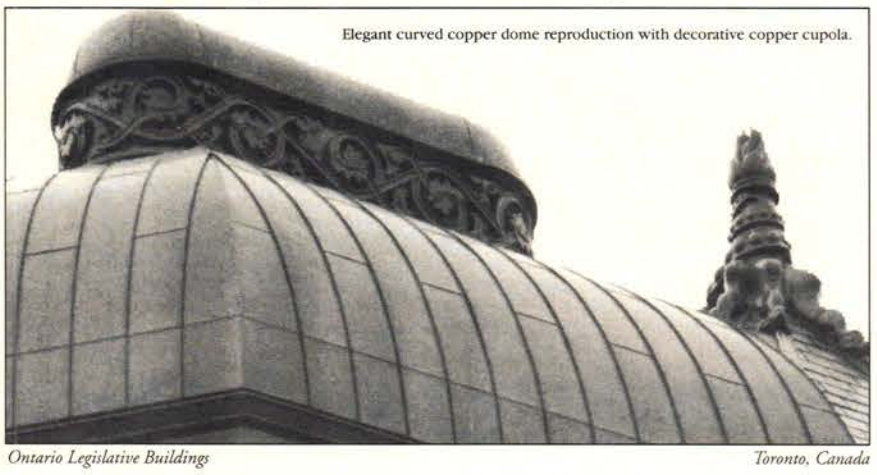

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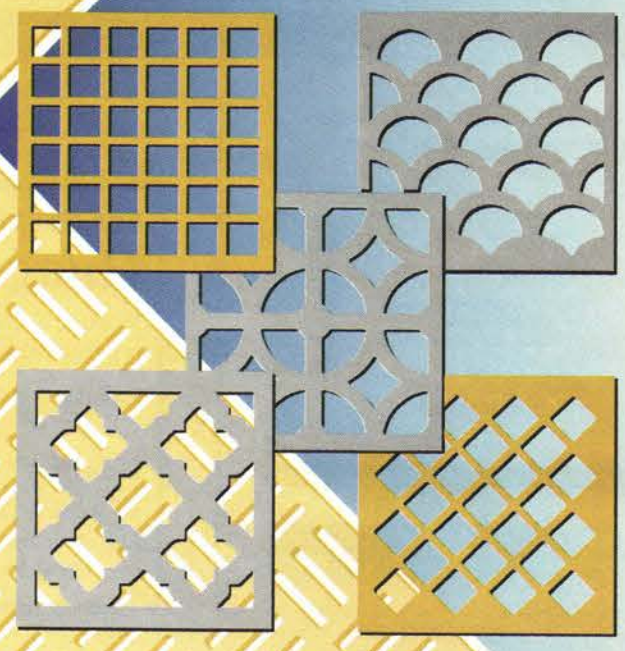

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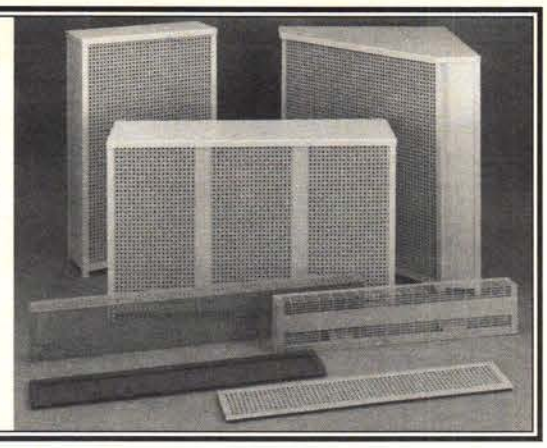

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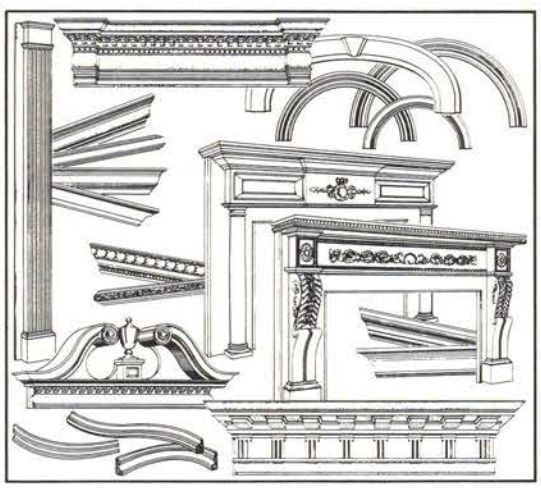

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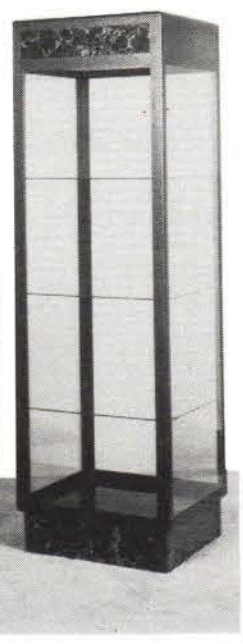

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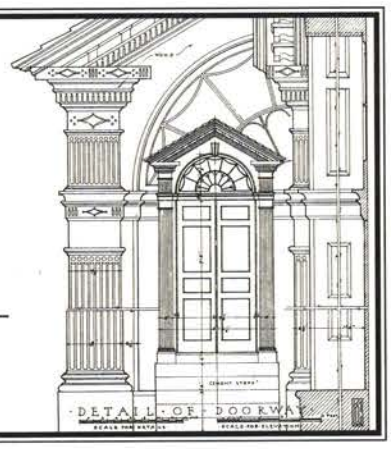

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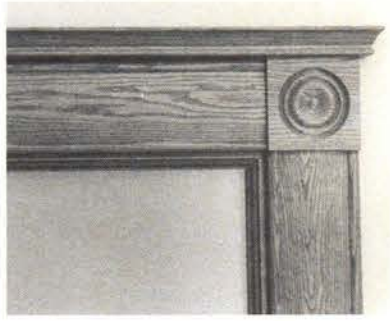

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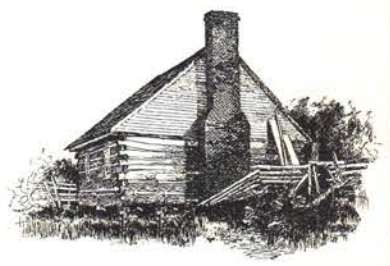

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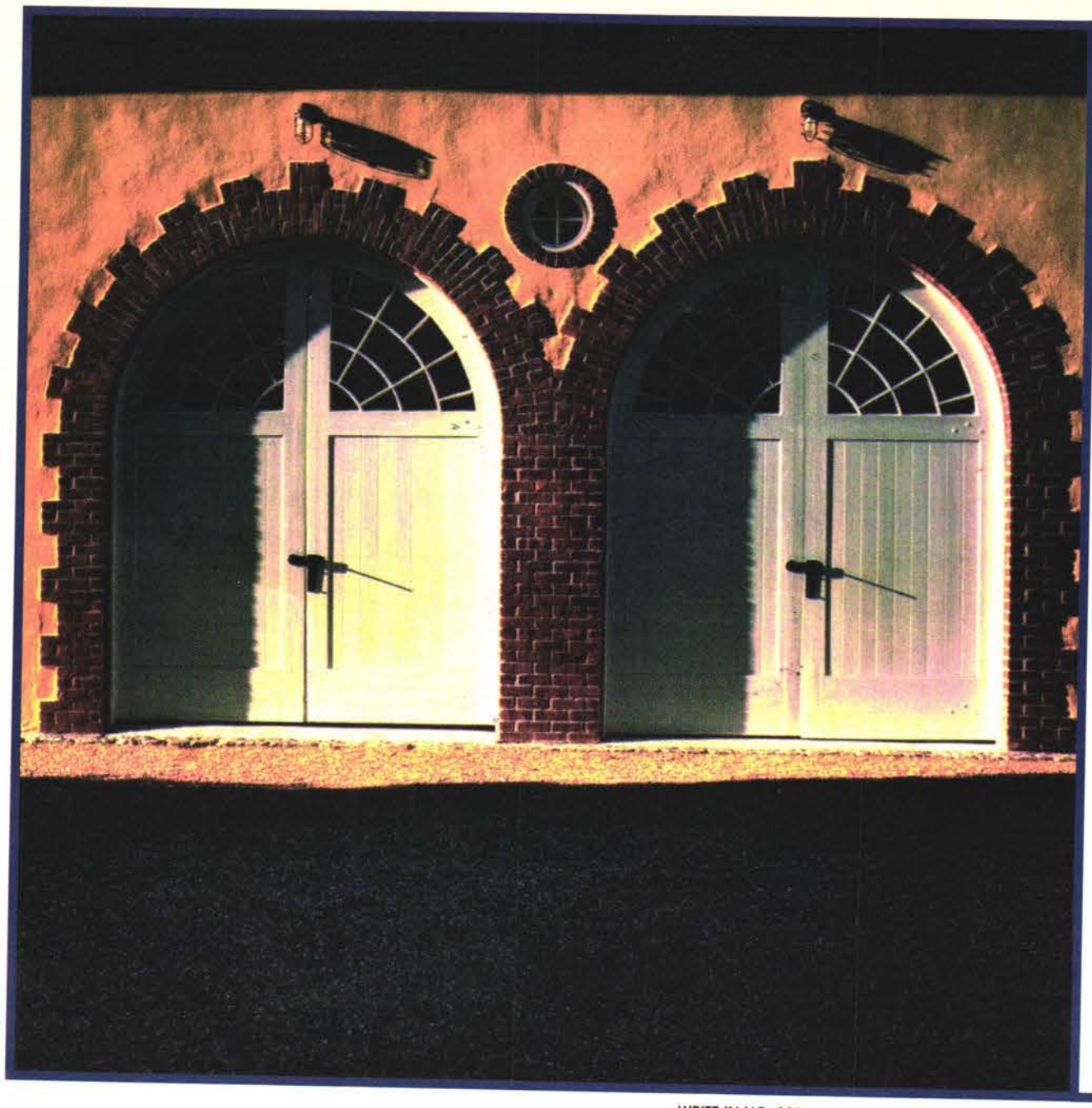

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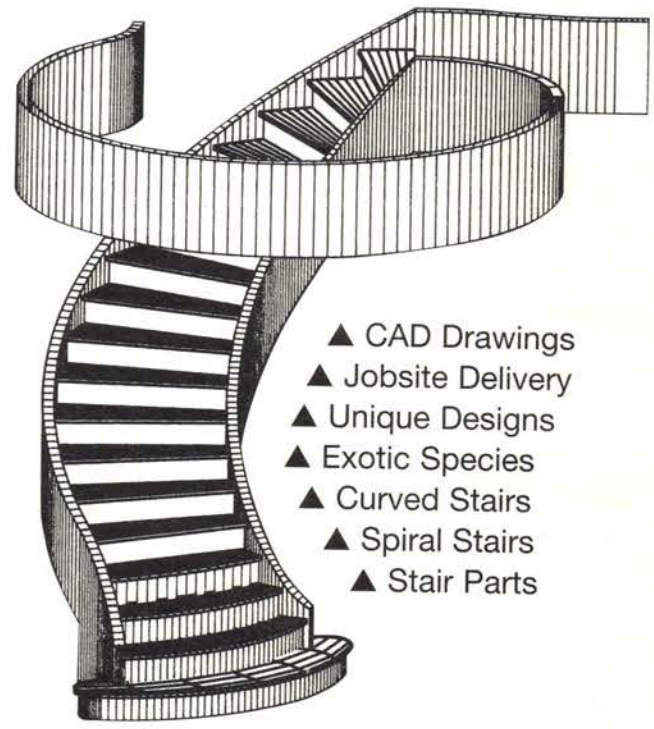

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AN APPRECIATION OF THE BALUSTRADE

The classical balustrade, an invention of the Renaissance, goes hand in hand with other elements in the classical orders. Yet surprisingly little has appeared in print about the norms and nuances of balustrade design. Here, one of America's foremost classical architects reveals the essence of the baluster.

BY ALVIN HOLM, AIA

I love balusters. The plump ones and the lean ones, the fancy and the plain . . . all are like little people with personalities and temperament. They may adorn a balcony like a string of pearls, dignify a stairway with their monumental presence, or embellish a roof line like a beautiful crown. And unlike most other elements in the classical scheme of things, these small sentinels are complete unto themselves, organic units that embody all the laws of classical design. For that reason, I like to introduce them early in my course of instruction in Drawing the Classical Orders. Outside my course, I think, the baluster has been a victim of benign neglect. I hope that is changing now because the balustrade deserves far better.

In any standard text on the Orders of Classical Architecture the baluster rates little more than a perfunctory couple of paragraphs toward the end of the book. Indeed, because it did not exist in Antiquity at all — not even as a "proto-form" in the Greek repertoire or a gleam in a Roman's eye — the balustrade never made it into the Canon. Since its emergence in the Renaissance, every author has offered up his own version of the baluster, sometimes with appropriate variations to accompany the different Orders, and no consensus has ever been reached. While variations abound from treatise to treatise in the proportional descriptions of the Doric, Ionic, and Corinthian orders, each text purports to derive from an earlier authority, and the actual latitude of variation is slight. Not so for the baluster, where the range of opinion is broad, since no appeal can be made to the authority of antiquity. In *The American Vignola*, the text I have always used for my course, William Ware writes that "in antiquity parapets were often pierced by triangular penetrations, apparently in imitation of wooden fences [whereas] in modern times the openings in parapets are generally filled with a sort of colonnade of dwarfed columns called balusters." It is interesting to me that Ware, writing in 1904, regards his own era as one with the Renaissance, in distinction to the antiquity of Greece and Rome. That he can conceive of the last five hundred years as "modern times" is amusing from our standpoint in the late twentieth century. Perhaps what we call Modern now will soon pass away and we can think again with William Ware of the Renaissance as "modern times."

One of the few design norms for the baluster appears in the 1904 edition of William R. Ware's 1904 edition of *The American Vignola*. This valuable guide to the making of classical architecture was reprinted by Classical America with introductory notes by John Barrington Bayley and Henry Hope Reed, and is now available through Dover Publications (ISBN 0-486-28310-0).

Balustrades are normally made "elbow height" — roughly three feet high, regardless of the scale of the building. For this classical pavilion, however, architect Holm made the crowning balustrade only slightly higher than two feet. This has the effect of making the building seem larger than it actually is, lending a palatial quality to a house which is actually relatively modest in size.

A PERFECT TEACHING TOOL

Besides the simple sensuality of all balustrades — and they are all beautiful to one degree or another — I love the baluster because it exemplifies classical design in a very pure form. Although it is always a component in a larger ensemble, the baluster itself is a completed organism with all the appropriate constituents. Like a column it has three major parts: A base, a shaft, and a cap. As in all classical elements, these constitute the beginning, the middle, and the end or culmination. And, as in most classical elements, each of these major parts also has three parts. The base has a square block called the plinth, supporting a rounded disc called the torus, then a transitional molding to support the shaft. The cap mirrors the base ("As above, so below!") ending in a square block, the abacus, supported by a round molding called the echinus, supported in turn by a transitional element called the necking. The middle part (or shaft) consists of the belly, the sleeve, and a transitional element called the astragal. Columns are organized like this, as are pedestals, doors, windows, wainscots, cornices . . . in short, all the elements of classical architecture come in three's!

The organization of the top part recapitulates the bottom part, with some variation, and usually in reverse. It is also, almost invariably, somewhat smaller than the bottom. And this, too, is true for columns and all the other elements — including the whole building itself. In the classical scheme of things, everything gets smaller at the top, a principal well-illustrated by the standard baluster. But of course, there are those vexing exceptions, notably the double-baluster which is completely symmetrical on the horizontal axis, absolutely the same above and below the center line.

From a teaching point of view, the baluster is a perfect place to begin the study of composition with moldings. The baluster is, after all, only a sequence of moldings judiciously disposed. The entire range of classical forms derives from the use of a very small number of indivisible units called "the moldings" or "the profiles." These are like the atoms, out of which all substance is composed, or phonemes out of which all language is made. There are rules that govern the way these elements can be combined, and conventions for their use within the classical system. These are like grammar and the rules of syntax, and they can be most clearly illustrated in the sequence of moldings that makes up a well-wrought baluster. To appreciate how the system works, follow with your eye how each little curve begins and stops, then shifts, then flows again the other

continued on page 18

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WRITE IN NO. 196

THE BALUSTRADE, continued from page 16

way before it vanishes into a plane, and reappears. Some moldings are quick and some are slow, some languid and some vigorous. How they all combine to make a whole is the never-ending fascination in looking at a balustrade.

What may be said of the sequence of curves and planes in a baluster is also true in a column, or a candlestick, a newel post or an urn. The special beauty of these forms that can be achieved by turning (as on a lathe) is the symmetry of these sequences around the vertical axis. The left hand/right hand play of opposites has always charmed our senses and pleased our mind. In the balustrade we are additionally treated by the rhythmic repetition of these beautiful elements and again by the reversed relationship between each successive pair. The figure/ground relationship is as critical in a balustrade as it is in a typographical composition. The reversing contours of solid and void across a balustrade are all the more intriguing because the darks and lights themselves are often interchanged by the weather and the movement of the sun.

SIZING THE BALUSTRADE

Probably because the baluster is not part of the original classical repertoire it does not participate in one of the most notable aspects of the classical building. Whereas almost every other architectural element — doors, windows, columns, moldings, etc. — is large or small depending on the actual size of the building or the size of the composition they comprise, the balustrade alone is always the same size. Whereas the column with its pedestal and entablature is always composed of elements in the same proportional relationship whatever the overall size might be, the baluster is invariably about three feet high. Whether the building has one story or twenty, the balustrade will be of a height convenient for the elbow to lean upon. It may be said that a classical building does not have "scale" in the sense that modern buildings do. In a photo, for instance, of a classical temple, if there were no figures present to give it "scale" one would never know whether it was a major civic structure or a dog house. Alone among the elements the balustrade gives "scale" to a building that other elements do not. We always see it in relation to a figure, and this imparts a sense of romance to it as well. We see a balustrade and automatically we envision a person looking over the parapet or standing at the French doors overlooking the street. This connection to an irresistible fantasy is also perhaps the reason that fashion photography so frequently features a balustrade with a wistful beautiful model leaning languidly on the upper rail.

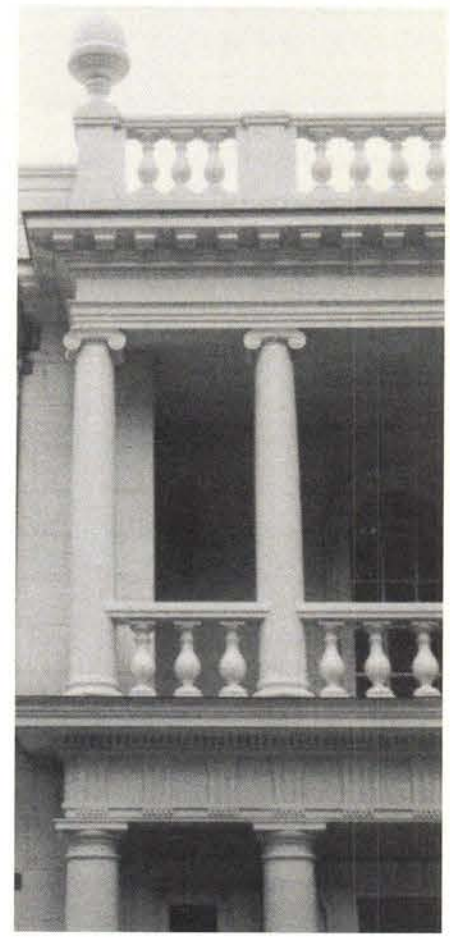
I taught this principle of the invariable size of the balustrade for four or five years before having the opportunity to design one from scratch. Ironically, I was unable to follow my own rules, and ended up with a balustrade only slightly larger than two feet high. It looks quite beautiful but it had the altogether unexpected effect of making the building seem very much larger than it actually is. The diminutive balusters impart a palatial quality to the house, which is in fact relatively modest in size.

THE NEED FOR A STANDARD

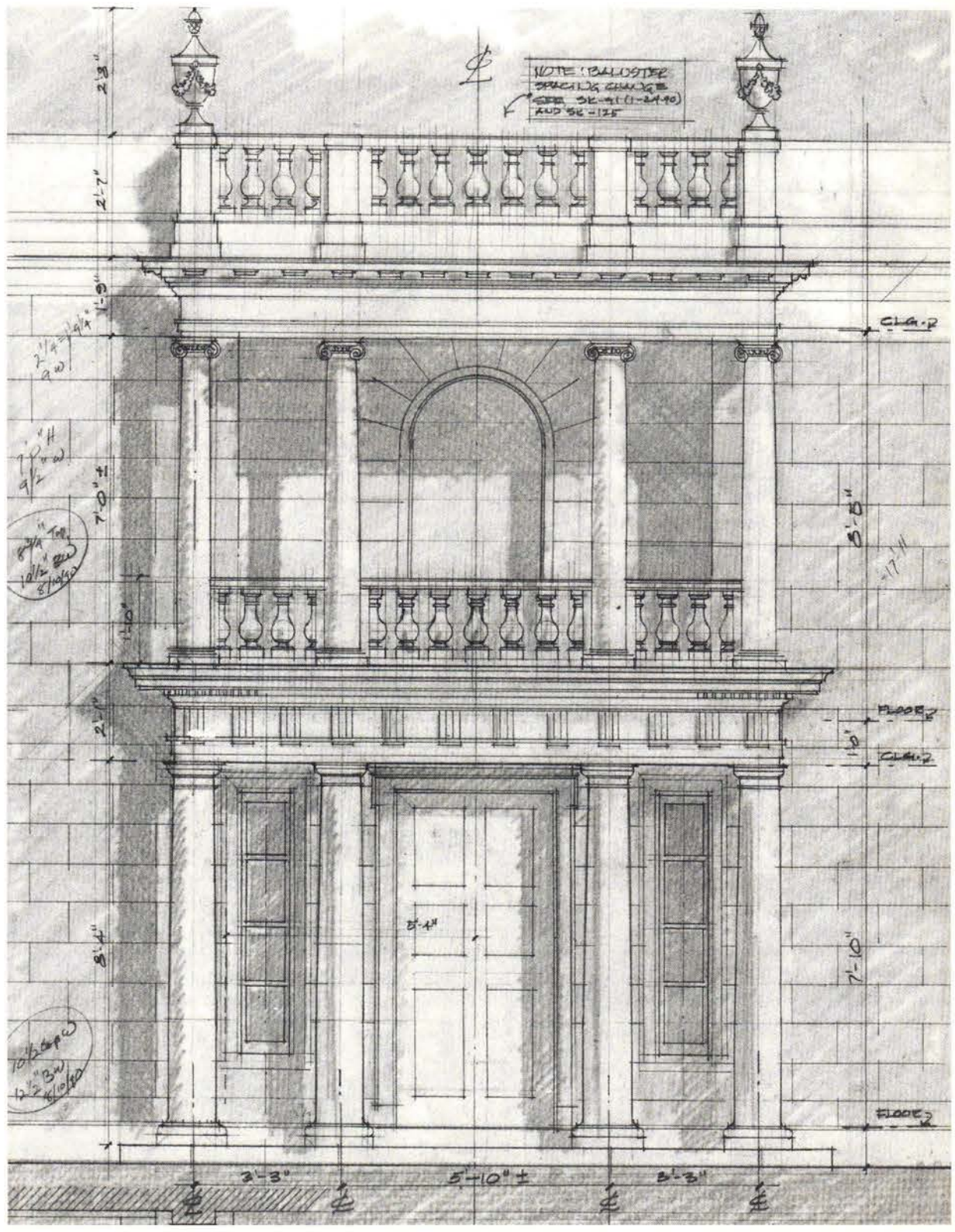
I like to use the baluster to illustrate another more general point, and that is the necessity for a standard. When William Ware wrote his *American Vignola* at the turn of the last century, his intention was to bring the American drafting room for the first time a standard text to be used in the everyday practice of architecture. Not a theoretical treatise, it was a how-to-do-it book for offices large and small across the whole country, and that is what it became during the next 50 years, until its temporary eclipse after the Second World War. When I began teaching the Orders under the auspices of Classical America, first at Drexel University in 1979 and then at the National Academy of Design in 1981, I felt that *The American Vignola* should be restored to its place of authority as the standard text. There are many good reasons for that desire, but my principal interest was that there be a standard for design beyond (and before) any individual architect's artistic taste. The drawings in the book are hardly beautiful at all, and the text itself is rather gray, but the clarity and authority are certainly present. And that is what we need in this period when we must all re-learn the classical methods of design that have not been taught in school for many years.

A prominent part of that older classical discipline is the idea of a standard, a system of proportions and relationships by which all else can be evaluated. This is not part of the Bauhaus system, nor is it congenial to most other modernist movements. It is intrinsic to the classical. As comical as it might seem, I like to use Vignola's baluster to establish this idea. So far as I know, Vignola himself did not employ in his own work the baluster he describes in his book, though he did hold it up as a standard. Ware reiterates the standard, and so do I, but I have not employed this specific model yet in a design, nor I suspect did Ware. What then is the use of an esthetic standard that is not used? It is used as a measure of judgment, a guide for the eye, and in a milieu of increasingly slippery values such a fixed mark should be welcome.

More important, I believe such standards facilitate communication and permit a range of expression impossible without them. If we all know the standard then we are free to depart from that form for expressive purposes with some reasonable expectation of being understood. If all our architects were to learn the Vignola baluster as taught by Ware, then for one of them to pare down the belly, for instance, or to exaggerate the neck, would be meaningful. To puff up the torus or embellish the echinus would be making a statement of sorts. But how are we to judge the plump or the lean without knowing the norm? What use is the nuance if the standard is not well known? I would like to imagine that my students are teaching their students, as Ware has bequeathed it to us, as Esquies has borrowed from Vignola, as Palladio interpreted Vitruvius. And my hope is that the model baluster as defined by William Ware will live on to provide the guide for generations of little balusters to come. ■



Alvin Holm, AIA, is a longtime Board Member of Classical America and President of the C.A. Philadelphia Chapter. He now teaches at Moore College of Art and Design in Philadelphia where his own practice is devoted exclusively to the design of classical and traditional architecture. His work at the Metropolitan Museum's new 19th Century European Galleries won critical acclaim and an AIA Design Award. Holm is currently working on the design of a civic fountain, in Kansas City.



In this bay for a residence designed by Alvin Holm, AIA, the balustrades are the crowning ornamental elements of the superimposed Ionic and Doric orders.

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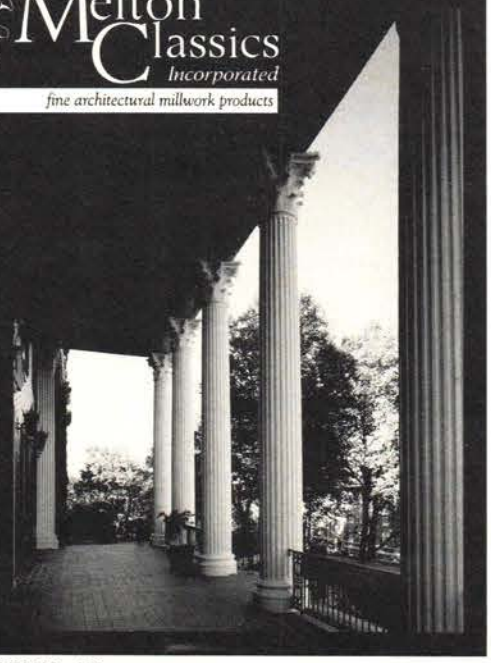

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Decorators Supply Corp. **3610-12 S. Morgan St., Dept. TB** **Chicago, IL 60609** **312-847-6300; Fax: 312-847-6357**	14,000 patterns for period architectural elements and molded ornament - ceiling medallions to mantels - in Plaster of Paris, compo, and wood since 1893.	Set of 5 catalogs, $30. Free brochure Write in No. 21		✔		Plaster/gypsum	As specified	Plaster/gypsum		15%
DMS Studios **5-50 51st Ave., Dept. TB** **Long Island City, NY 11101** **718-937-5648; Fax: 718-937-2609**	Specializes in historically accurate, hand-carved marble and limestone fireplace mantels, and other architectural and landscape ornament and elements. Will design, sculpt, or fabricate anything in stone or metal.	Free Write in No. 910	✔	✔		Stone, cast materials	As specified	Stone, cast materials		100%
Durastone **66 Milliken St., Dept. TB** **Portland, ME 04103** **207-797-3552; Fax: 207-797-3800**	Specialize in historical reproductions and custom architectural details; replicating granite, limestone, bluestone, and brownstone; ornamental arches, sills, and lintels; signage panels, watertables.	Free Write in No. 365	✔	✔		Cast stone	As specified	Cast stone	Cast stone	95%
Essex Works, Ltd. **843 Meeker St., Dept. TB** **Brooklyn, NY 11222** **718-218-8800; Fax: 718-218-8048**	Custom-cast architectural columns. Pattern and mold work done on-site; shop fabrication in GFRC, cast stone, and precast concrete.	Free Write in No. 720	✔	✔		Cast stone, GFRC	As specified	Cast stone, GFRC	Cast stone, GFRC	50%
Executive Woodsmiths **215 Foster Ave., Dept. TB** **Charlotte, NC 28203** **704-527-9090; Fax: 704-529-0007**	Custom interior woodwork, architectural wood moldings, straight or curved, pilasters, capitals, and mantels. Custom duplication; service and shipping nationwide.	Free Write in No. 932		✔	✔	Wood	As specified	Wood		100%
Fagan Design & Fabrication, Inc. **44 Railroad Ave., Dept. TB** **West Haven, CT 06516** **203-937-1874; Fax: 203-937-7321**	Custom hand-turned columns, cylinders, rope twists, and spirals, etc. Also, capitals and other carvings. Can produce exact duplicates for restoration; hardwoods a specialty.	Free Write in No. 821	✔	✔	✔	Wood	44 in.x32 ft.	Wood, polymer composite	Wood	90%
Felber Ornamental Plastering Corp. **P.O. Box 57, Dept. TB** **Norristown, PA 19404** **800-392-6896; Fax: 610-275-6636**	Stock line of pilaster and column capitals; custom work; consultants, pattern-makers, and fabricators of cornices (interior and exterior) and other architectural ornament in Forton MG and plaster. Historic restorations.	Free Write in No. 289		✔		Plaster/gypsum, polymer composite	As specified	Plaster/gypsum, polymer composite	NA	75%
Fischer & Jirouch **4821 Superior Ave., Dept. TB** **Cleveland, OH 44103** **216-361-3840; Fax: 216-361-0650**	Wide selection of handcrafted plaster architectural ornament for interior and exterior applications, including columns, capitals, and fireplace mantels.	Free Write in No. 196		✔		Plaster/gypsum	As specified	Plaster/gypsum	NA	20%
David Flaharty — Sculptor **1064 Magazine Rd., Dept. TB** **Green Lane, PA 18054** **215-234-8242; Fax: Same as phone**	Classically trained, Flaharty does carving, cast metals, architectural conservation, replication, restoration, and consultation. Works in all traditional and modern materials. Several recent additions to Victorian medallion collection.	Free		✔		Polymer composite, plaster/gypsum	8 in.x8 ft.	Polymer composite	Polymer composite	100%
Freedman Studios, L.H. **368 Congress St., 5th fl., Dept. TB** **Boston, MA 02210** **617-426-8887; Fax: Same as phone**	Sculpture studio specializing in preservation, conservation, restoration, custom art design, and environmental and architectural detail. Casting and moldmaking. Materials include simulated marble and gilded ornament.	Free Write in No. 639		✔		Plaster/gypsum, Polymer composite	12 in. x 10 ft.	Polymer composite	Polymer composite	100%
Fypon, Inc. **22 W. Pennsylvania Ave., Dept. TB** **Stewartstown, PA 17363** **800-537-5349; Fax: 717-993-3782**	Over 3,500 molded architectural elements — window features, turnings, columns, brackets, and more — in high-density polymer and other polymers. New line of load-bearing polymer/steel columns.	Free Write in No. 617	✔	✔		High-density polymer, polymer/steel	12 in.x10 ft.	Polymer	Polymer composite	10%
Goodwin International **2915 Redhill Ave., Ste. D-101, Dept. TB** **Costa Mesa, CA 92626** **800-600-3200; Fax: 714-241-1874**	Landscape and garden ornaments from around the world: Stone fountains, statues, planters, and marble ornaments; GFRC planters, urns, benches, tables, and water features. Also, custom designs and finishes.	Free Write in No. 416	✔	✔		Stone, terra cotta, GFRC	10 in.x10 ft.	Terra cotta	Stone, terra cotta	100%
Haddonstone (USA), Ltd. **201 Heller Pl., Dept. TB** **Bellmawr, NJ 08031** **609-931-7011; Fax: 609-931-0040**	British designer-manufacturers of classical stonework, using cast, reconstructed limestone resembling Portland Stone. Over 500 designs of architectural columns, capitals, and landscape elements that weather naturally.	Free		✔		Cast stone	30 in.x20 ft.	Cast stone	Cast stone	20%
Hayles & Howe **509 S. Exeter St., Dept. TB** **Baltimore, MD 21202** **410-385-2400; Fax: 410-385-0602**	Custom columns and capitals of any size manufactured from scagliola and plaster, as well as scagliola balustrades.	Free Write in No. 352	✔	✔		Plaster/gypsum	As specified	Plaster/gypsum		95%
House of Moulding **15202 Oxnard St., Dept. TB** **Van Nuys, CA 91411** **818-781-5300; Fax: 818-994-7848**	Large selection of hardwood and softwood moldings; also columns, pilasters, capitals, corbels, decorative plaques, finials, ceiling medallions, mantels, and more.	Free Write in No. 905	✔	✔		Wood	10 in.x10 ft.	Wood		40%

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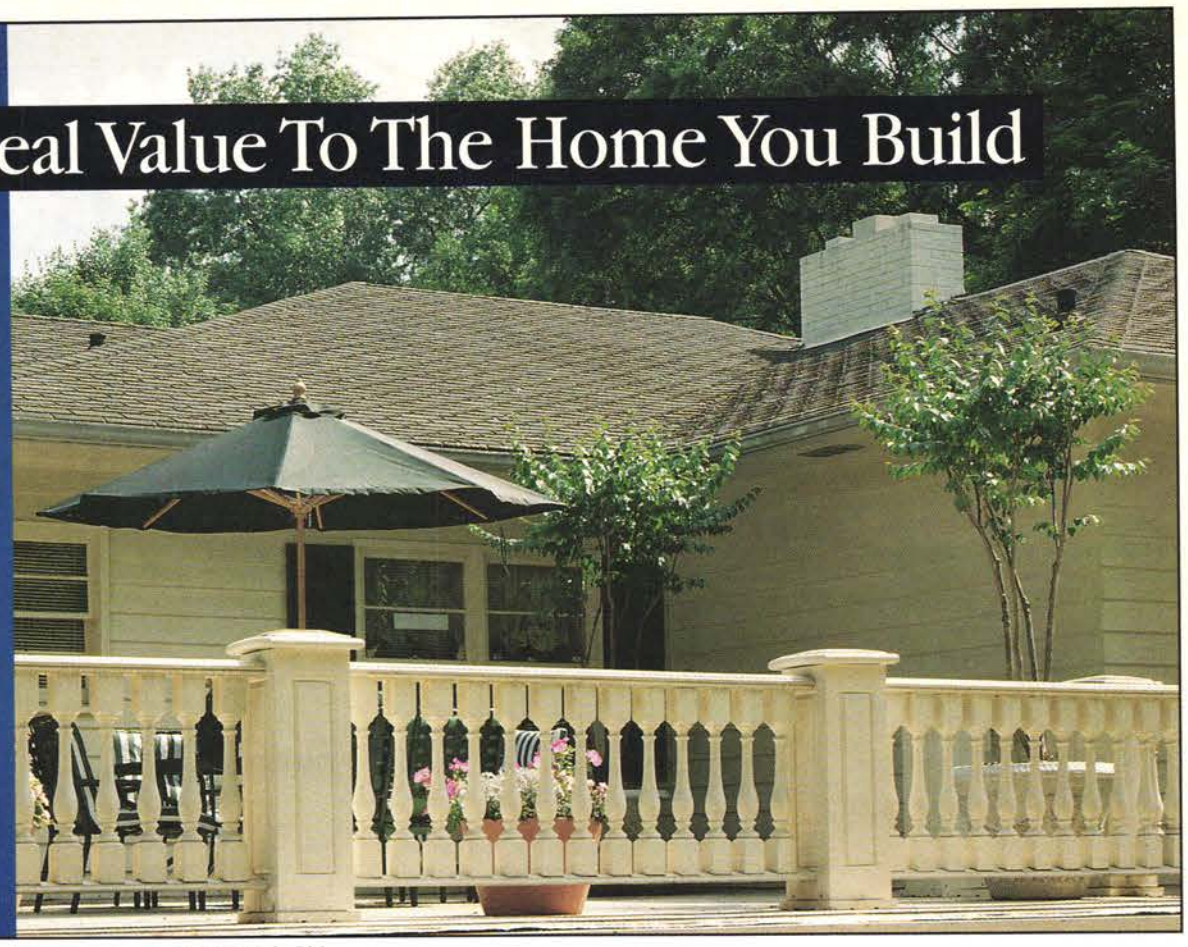

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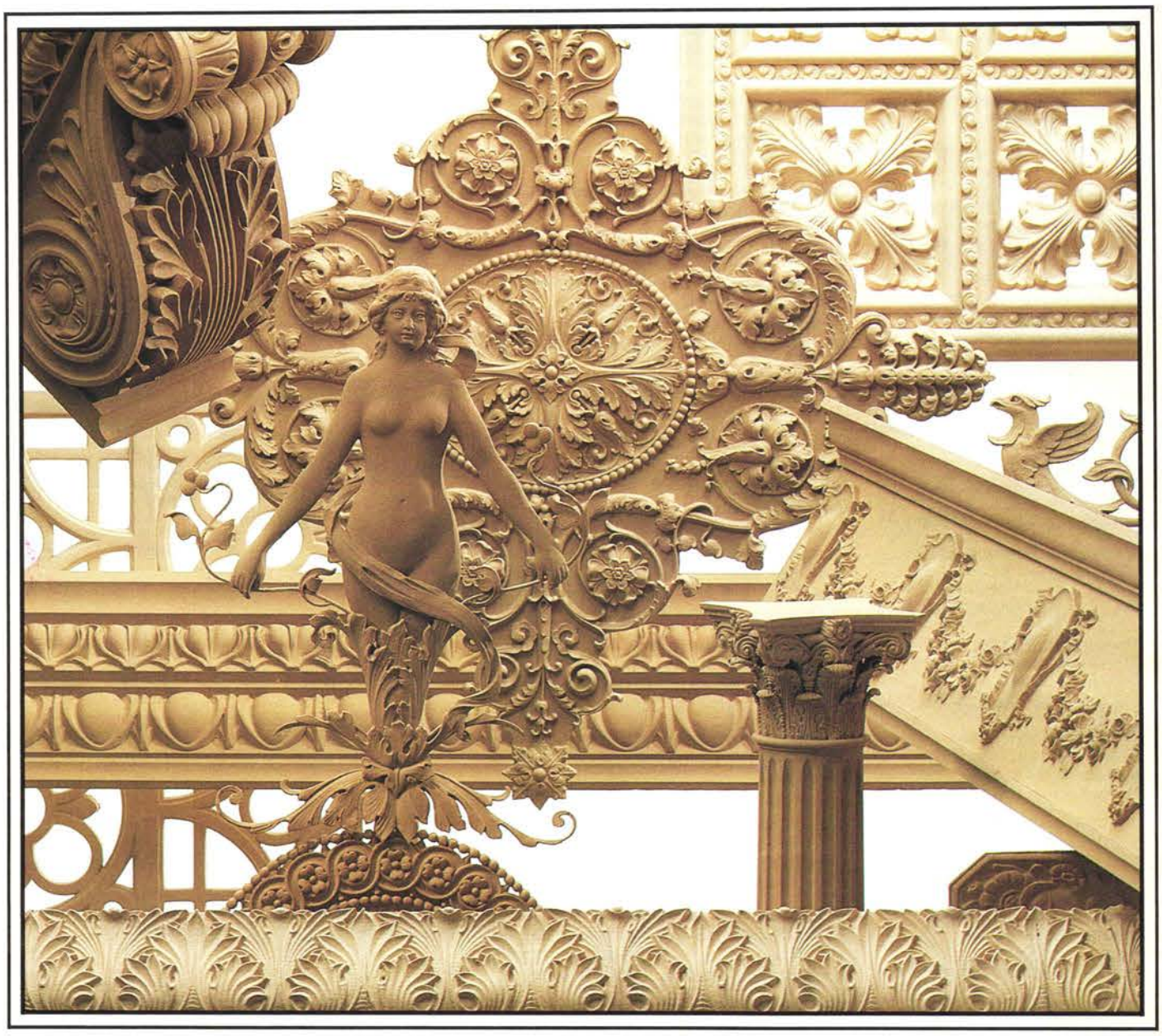

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WRITE IN NO. 21

TRADITIONAL BUILDING's Columns, Capitals & Balustrades SourceList

CSI# 06400

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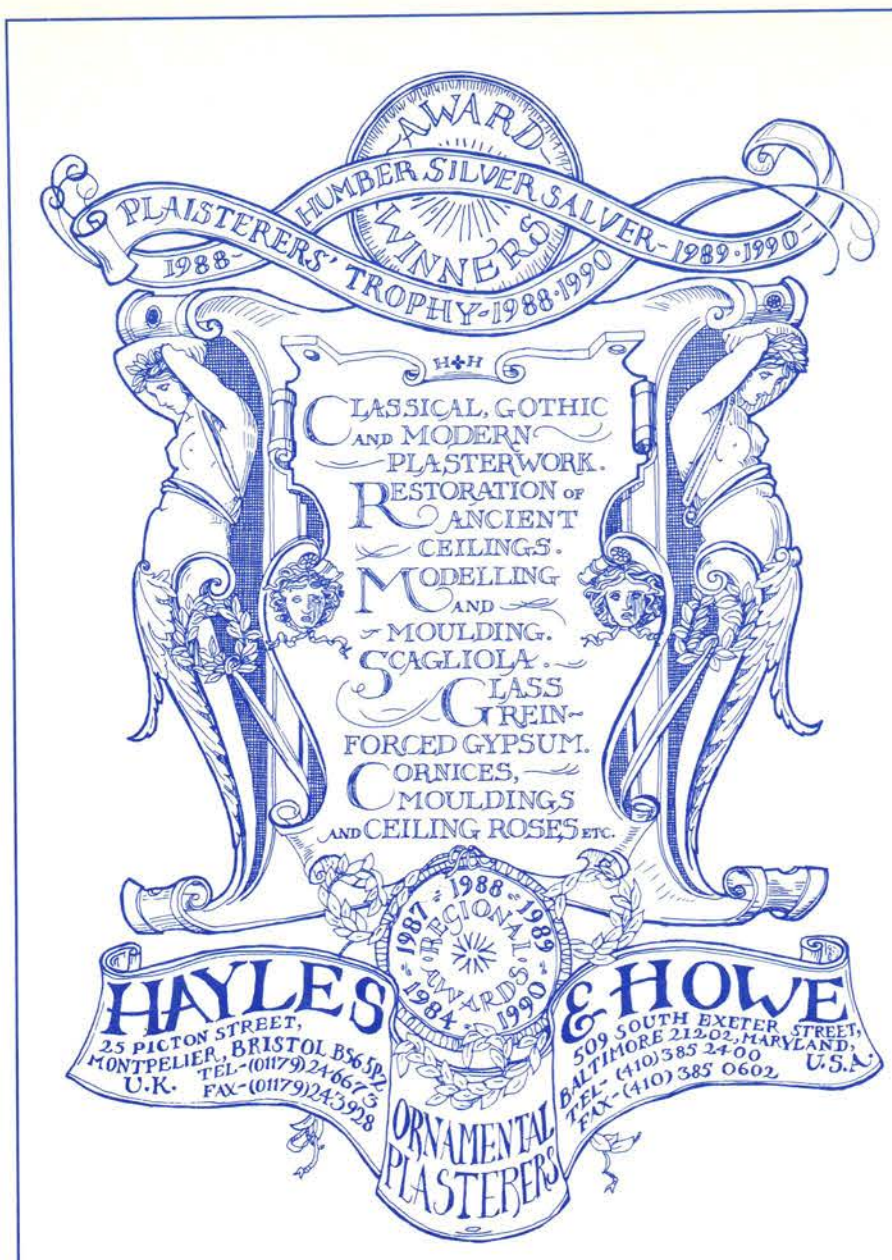
COMPANY	SPECIALTY	Literature	Columns					Capitals	Balustrades	% Custom
			Solid	Hollow	Stavework	Materials	Max. Dia.x Max. Ht.	Materials	Materials	
Ionic Castings **43-02 34th Ave., Dept. TB** **Long Island City, NY 11101** **718-786-7670; Fax: Same as phone**	Custom designs, replacement elements in a variety of molded materials, for interior and exterior applications.	Free Write in No. 454	✔	✔		Fiberglass, polymer composites, GFRC	As specified	Fiberglass, polymer composites, GFRC	Plaster/gypsum, polymer composites, GFRC, FRP, cast stone	95%
Janusz Art Stone Inc. **7025 N.E. 2nd Ave., Dept. TB** **Miami, FL 33138** **305-754-7171; Fax: 305-754-0450**	Custom design service; adjustable sizes on all columns, capitals, and balustrades; large selection; rapid turnaround. Also: Simulated keystone.	Free		✔		Cast stone	As specified	Cast stone	Cast stone	100%
Jeld-Wen, Turning Point Div. **3250 Lakeport Blvd., Dept. TB** **Klamath Falls, OR 97601** **800-877-9482; Fax: 541-884-2231**	Stock and custom columns, posts, spindles, and stair parts manufactured to highest industry standards in western hemlock; finish sanded.	Free Write in No. 362		✔	✔	Wood, polymer composite	30 in.x30 ft.	Wood, polymer composite, plaster/gypsum	Wood	15%
JMS Wood Products **8825 Shirley Ave., Dept. TB** **Northridge, CA 91324** **818-709-8674; Fax: 818-709-8683**	Specialists in rope moldings (3/8 in. to 3 in.) and rope columns (4 in. to 24-in. dia.). Any design, any wood species; custom and production runs. Also, fluting, reeding, and twisting.	Free Write in No. 632	✔	✔		Wood	24 in.x12 ft.	Wood		100%
Josef's Art Wood Turning **71 Sewell St., Dept. TB** **Hempstead, NY 11550** **516-489-3080; Fax: 516-489-3148**	Wood columns; interior or exterior; load-bearing or not; fluted, reeded, roped, and carved styles. Also posts, balusters, table and chair legs, and other turnings, custom or production; hand rails, moldings, balls, dowels & rosettes.	Free Write in No. 31	✔	✔	✔	Wood	36 in.x30 ft.	Wood, polymer composite	Wood	100%
Klitsas, Dimitrios - Fine Wood Sculptor **378 North Rd., Dept. TB** **Hampden, MA 01036** **413-566-5301; Fax: 413-566-5307**	Highest quality hand-carved classical capitals. Custom carving of wood architectural elements, both interior and exterior, including furniture (all periods), fireplace mantels, stairs, moldings, and other specialty carvings.	Free Write in No. 738	✔	✔		Carved wood	As specifed	Carved wood		100%
Limestone Concept, Inc. **13416 Estrella Ave., Dept. TB** **Gardena, CA 90248** **310-329-9885; Fax: 310-329-9903**	Offers fabrication of limestone architectural pieces carved in the French tradition, from Gothic to contemporary styles. Products include fireplaces, fountains, columns, moldings, benches, balusters, statuary, and more.	Free Write in No. 539	✔			Craved stone	As specified	Carved stone	Stone	100%
Melton Classics **P.O. Box 465020, Dept. TB** **Lawrenceville, GA 30246** **800-963-3060; Fax: 770-962-6988**	Classically correct architectural columns and balustrades; 10-yr. warranty redwood columns, stain-grade hardwood columns, and marble composite columns. DuraClassic poly-resin columns and poly-resin marble composite balustrades.	Free Write in No. 410		✔	✔	Wood, polymer composite	36 in.x32 ft.	Wood, polymer composite	Cast stone, polymer composite	100%
Mohamad Wood Turning Co. **28 Meadow St., Dept. TB** **Brooklyn, NY 11206** **718-417-0025; Fax: 718-417-0021**	Specializes in custom wood spirals, turnings, balusters, and columns in all classical styles; load-bearing for interior or exterior use. Can furnish fluting, reeding, rope twists, and custom carving. Fractional columns available.	Free Write in No. 5	✔	✔	✔	Wood	40 in.x32 ft.	Wood, polymer composite	Wood	100%
National Hardwood **14959 Delano St., Dept. TB** **Van Nuys, CA 91411** **818-988-9663; Fax: 818-988-4955**	Wholesale hardwood flooring and molding, columns, staircases, mantels, custom laser flooring, custom milling. Over 4.5-million ft. of material stocked.	Free		✔		Wood, polymer composite, cast stone	24 in.x24 ft.	Wood, polymer composite	Wood, cast stone, polymer composite	5%
New England Woodturners **130 Ingham Hill Rd., Dept. TB** **Old Saybrook, CT 06475** **860-388-1943; Fax: 860-388-1943**	Column and porch post lengths up to 16 ft.; diameters to 14 in.; newels, balusters, finials; all styles; any wood specified. Also, path markers with decorative finials; porch or interior stair; short runs a specialty.	Free	✔	✔	✔	Wood	44 in.x32 ft.	Wood, polymer composite	Wood	100%
Newmeyer Lumber Co. **P.O. Box 36, Dept. TB** **Rahway, NJ 07065** **800-514-7245; Fax: 908-388-0324**	Specialty lumber company provides interior and exterior railings, balustrades, turnings, circular, and spiral stairs. Stocks over 100 turnings and 15 rail profiles. Columns in wood and FRP; capitals in compo and polyurethane.	Free Write in No. 883	✔	✔	✔	Wood, structural composites	As specified	Wood, composites	Wood, polymer composites	40%
Nichols Bros. Stoneworks **20209 Broadway, Dept. TB** **Snohomish, WA 98290** **360-668-5434; Fax: 360-483-5721**	Manufacturers of dry-cast cast stone columns, European-designed sandstone planters, urns, and other containers.	Free Write in No. 598	✔			Cast stone	As specified	Cast stone	Cast stone	10%
NT Hartmann Sanders **4340 Bankers Cir., Dept. TB** **Atlanta, GA 30360** **800-241-4303; Fax: 770-449-5875**	Authentic architectural columns and capitals — interior and exterior applications. Redwood, other species. Wood columns are classically correct and durable. Wide choice of designs, styles, and materials; 20-yr. warranty.	Free Write in No. 912	✔		✔	Wood, polymer composite, fiberglass	44 in.x36 ft.	Wood, plaster/gypsum		100%
Pagliacco Turning & Milling **P.O. Box 225, Dept. TB** **Woodacre, CA 94973** **415-488-4333; Fax: 415-488-9372**	Standard and custom columns and other turnings in all the classical styles. Solid and hollow turnings from 1-5/8 in. to 24 in.x20 ft.; some are load bearing. Stair parts, railings, balusters, balustrades, and custom work.	Free Write in No. 707	✔	✔	✔	Wood, polymer composite	30 in.x30 ft.	Wood, polymer composite, plaster/gypsum	Wood	80%
Passaic Millwork **229 Central Ave., Dept. TB** **Passaic, NJ 07055** **201-772-9013; Fax: 201-458-0431**	Offers stairs, rails, and parts; columns; moldings; radius work; turnings and fluting to 12 ft.; wood species as specified.	Free	✔	✔	✔	Wood, structural composites	As specified	Wood, composites	Wood, polymer composites	75%
Progressive Building Products **P.O. Box 849, Dept. TB** **Franklin, NC 28734** **704-524-3081; Fax: 704-369-7405**	Extruded aluminum columns in square or round configurations that snap around existing posts. Bases and caps in various styles.	Free		✔		Aluminum	15 in.x26 ft.	Polymer composite, metal		0%
Gail Redman Woodturning **77 14th St., Dept. TB** **San Francisco, CA 94103** **415-431-1595; Fax: 415-431-1509**	Custom architectural handturnings; balusters, newel posts, finials, porch posts, corner blocks, table legs, etc., made from Western red cedar, redwood, or hardwoods. Also custom furniture.	Free Write in No. 627	✔	✔		Wood	As specified	Wood, composites	Wood	80%
Resinart Corp. **17 Continuum Dr., Dept. TB** **Fletcher, NC 28732** **704-687-0215; Fax: 704-687-0182**	Polymer column capitals cast in high-density polyurethane have high load-bearing capacity (up to 15,000 lb.). They come in all the classical Greek and Roman styles, and are available in most popular sizes.	Free						High-density polyurethane		50%
Rory Brennan/Preservation Plastering **RFD 1, Box 772, Dept. TB** **Putney, VT 05346** **802-387-4623; Fax: 802-387-4001**	Plaster conservation and restoration, blending traditional techniques with adhesives and consolidants. Custom enrichment replication, pigmentation formulation, historical documentation & analysis, and consultation. Replication of column capitals.	Free Write in No. 298						Plaster/gypsum		100%
W.N. Russell and Company **34-60 Albertson Ave., Dept. TB** **Collingswood, NJ 08108** **609-858-1057; Fax: 609-854-3310**	Cast-stone columns and capitals; replication of many natural stones: Brownstone, granite, slate, bluestone, sandstone, slate, etc. Can be cast into most architectural shapes; wide variety of finishes.	Free	✔	✔		Cast stone	36 in. x 24 ft.	Cast stone	Cast stone	100%



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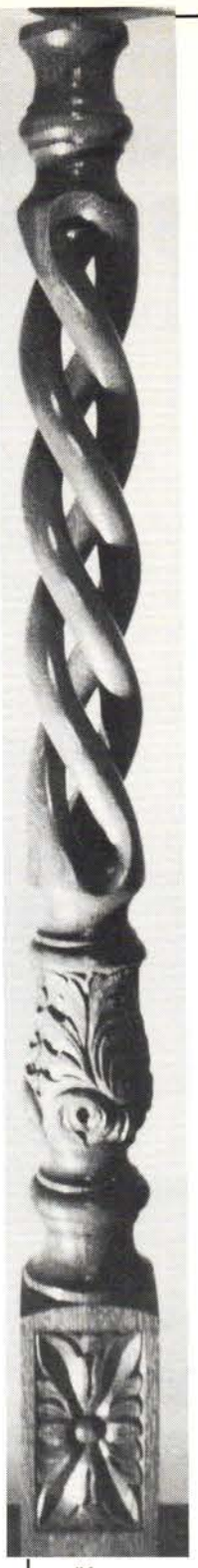

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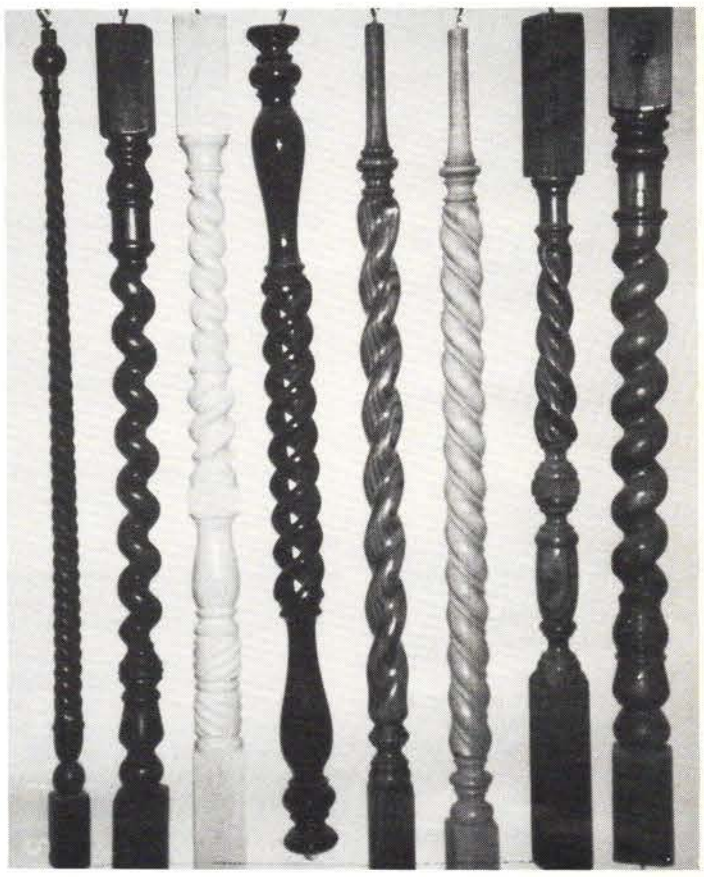

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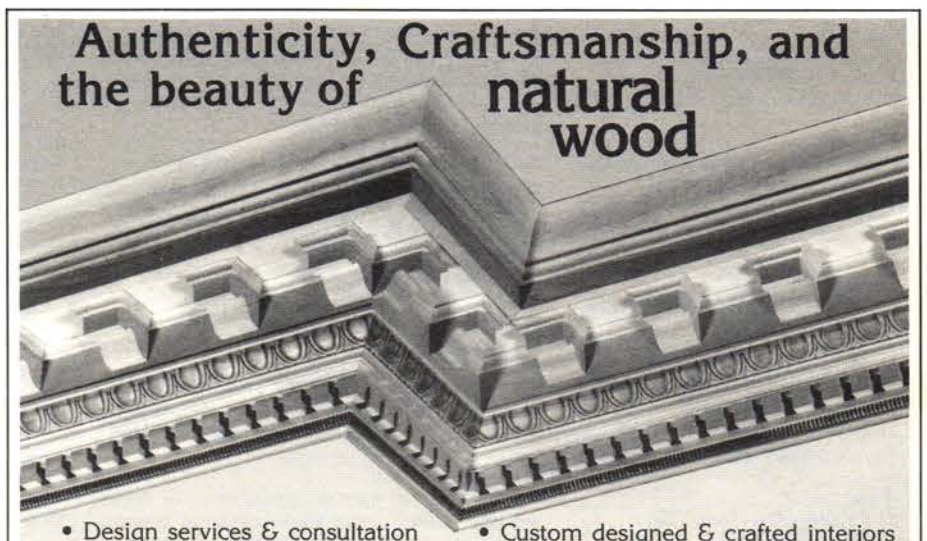

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TRADITIONAL BUILDING's Columns, Capitals & Balustrades SourceList

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COMPANY	SPECIALTY	Literature	Columns					Capitals	Balustrades	% Custom
			Solid	Hollow	Stavework	Materials	Max. Dia.x Max. Ht.	Materials	Materials	
A.F. Schwerd Mfg. Co. **3215 McClure Ave., Dept. TB** **Pittsburgh, PA 15212** **412-766-6322; Fax: 412-766-2262**	Column specialists. Standard and custom wood columns can be furnished with matching pilasters. Complete aluminum bases available for even-diameter exterior columns. 10 styles of ornamental capitals. Custom matching of existing columns.	Free Write in No. 161		✔	✔	Wood; metal bases	48 in.x34 ft.	Wood, plaster/gypsum		95%
Silverton Victorian Millworks **P.O. Box 2987, Dept. TB** **Durango, CO 81302** **800-933-3930; Fax: 970-259-5919**	Complete line of parts for porches and stairs: rails, balusters, posts, newels, treads, and gingerbread; screen doors; custom work and volume discounts. Stair parts available in hemlock and oak.	Free Write in No. 171	✔	✔	✔	Wood, polymer composites	12 in.x16 ft.	Wood, polymer composite	Wood, polymer composite	15%
Soltis Plastering & Stucco **1032 N. Hamlet Dr., Dept. TB** **Avon, MN 56310** **800-824-4238; Fax: 612-356-9067**	French plaster architectural ornament includes moldings, columns, pedestals, ceiling rosettes, niches, vases, cornices. Also: Large selection of architectural wood columns and capitals.	Free Write in No. 847								5%
Somerset Door & Column Co. **P.O. Box 755, Dept. TB** **Somerset, PA 15501** **814-445-9608; Fax: 814-443-1658**	Colonial wood columns, custom or standard; architectural solid-wood doors, hand assembled to spec.; newels, balusters, posts, casework, and moldings.	Free Write in No. 66		✔	✔	Wood, fiberglass	40 in.x40 ft.	Wood, compo, plaster/gypsum, fiberglass		55%
Spartan Architectural Columns **328 S. Central; Ste. 204, Dept. TB** **Medford, OR 97501** **800-949-5450; Fax: 503-734-7453**	Wood columns and ornamental capitals. In architectural series and stock residential patterns. Species include pine, redwood, oak, maple & cherry.	Free Write in No. 565		✔	✔	Wood, fiberglass	30 in.x30 ft.	Wood, FRP	Polymer/composite	75%
Spaulding Craft, Inc. **1053 Harbor Lake Dr., Dept. TB** **Safety Harbor, FL 34695** **813-726-2316; Fax: 813-725-2897**	Molded architectural FRP fiberglass; columns, exterior cornices, balustrades.	Free Write in No. 11		✔		Fiberglass	As specified	Polymer composite	Fiberglass	100%
Stonco, Inc. **4924 Poppleton St., Dept. TB** **Omaha, NE 68106** **402-556-5544; Fax: 402-556-5511**	Specializes in the custom fabrication and duplication of decorative stonework, including shop drawings, engineering, pattern and mold work, as well as casting and finishing.	Free Write in No. 880	✔	✔		Cast stone	36 in.x24 ft.	Cast stone	Cast stone	100%
Stone Legends **301 Pleasant Dr., Dept. TB** **Dallas, TX 75217** **214-398-0999; Fax: 214-398-1293**	Cast-stone architectural elements, handmade using precision tooling. Factory-direct pricing for elements such as balustrades, columns, fountains, steps, wall caps, pavers, signs, landscape and garden ornament. Custom casting.	Free Write in No. 863	✔	✔		Cast stone	36 in.x24 ft.	Cast stone	Cast stone	50%
Stone Magic Mfg. **5400 Miller, Dept. TB** **Dallas, TX 75206** **800-597-3606; Fax: 214-823-4503**	Manufactures a varied line of easily installed cast-stone mantels with the look and feel of cut limestone. Prices range from $650 to $4,400.	Free Write in No. 906	✔	✔		Cast stone	36 in.x24 ft.	Cast stone	Cast stone	25%
Techcrete Architectural Precast **12920 Alexandria Dr., Dept. TB** **Opa Locka, FL 33054** **305-688-1461; Fax: 305-688-3107**	Wide range of cast-stone architectural elements, including fountains, wall cap and surrounds, columns, blueprinted cast-stone veneer, stair risers, custom keystone columns.	Free		✔		Cast stone	32 in.x20 ft.	Cast stone	Cast stone	100%
Treadway Industries, Inc. **2025 S. Airport Blvd., Dept. TB** **Chandler, AZ 85249** **602-225-0511; Fax: 602-225-0517**	Custom design and manufacture of architectural and sculptural shapes, including columns, capitals, and balustrades of any size or shape, interior or exterior. Finish for expanded polystyrene elements is normally Polygarde hard-coat urethane that provides impact resistance. Specialized customized faux finishes.	Free Write in No. 522	✔	✔		Polymer/ composites, EPS	As specified	Polymer/ composite, Foam + Polygarde	Polymer/ composite, Foam + Polygarde	100%
Treadway Industries, Inc. **111 Weber Ave., Dept. TB** **Leesburg, FL 34748** **352-326-3313; Fax: 352-787-2888**	Custom design and manufacture of architectural and sculptural shapes, including columns, capitals, and balustrades of any size or shape, interior or exterior. Finish for expanded polystyrene elements is normally Polygarde hard-coat urethane that provides impact resistance. Specialized customized faux finishes.	Free Write in No. 522	✔	✔		Polymer/ composites, EPS	As specified	Polymer/composit e, Foam + Polygarde	Polymer/ composite, Foam + Polygarde	100%
Turncraft **P.O. Box 2429, Dept. TB** **White City, OR 97503** **800-423-3311; Fax: 541-826-1393**	Architecturally correct columns in a variety of wood species, both soft and hardwoods, exotics and domestics; columns in finger-jointed staves and solid stave; round and square styles. Both custom and stock columns available.	Free Write in No. 561		✔	✔	Wood, polymer/ composite	30 in.x30 ft.	Wood, polymer composite, plaster/gypsum	Wood	15%
Universal Gypsum Technology, Inc. **P.O. Box 315, Dept. TB** **Egg Harbor City, NJ 08215** **609-965-7700; Fax: 609-965-0227**	Manufacturers of glass fiber-reinforced polymerized gypsum products, including columns, capitals, ceiling tiles, moldings, coffers, etc. CAD design and custom finishing services; theme project specialists.	Free Write in No. 585	✔	✔		Modified gypsum	As specified	Modified gypsum	Modified gypsum	95%
Vetter Stone Co. **P.O. Box 38, Dept. TB** **Kasota, MN 56050** **507-345-4568; Fax: 507-345-4777**	Manufactures wide array of columns, capitals, and balustrades. Can fabricate Minnesota dolomite to suit almost any design style. Stone is available in wide variety of colors and finishes.	Free	✔			Natural stone	24 in.x10.5 ft.	Natural stone	Natural stone	95%
Frederick Wilbur — Woodcarver **P.O. Box 425, Dept. TB** **Lovingston, VA 22949** **804-263-4827; Fax: 804-263-5958**	Classical woodcarver specializing in traditional ornament; interior and exterior; column capitals, mantels, moldings, friezes, rosettes, and other elements; original designs or historically accurate reproductions.	Free Write in No. 165						Carved wood		100%
Wood Factory **111 Railroad St., Dept. TB** **Navasota, TX 77868** **409-825-7233; Fax: 409-825-1791**	Historically accurate millwork reproductions, both interior and exterior: Doors, screen doors, gingerbread, benches, gazebo parts, finials, stair parts, railings, porch parts, custom-turned lighting posts. Custom matching.	Free Write in No. 712	✔	✔	✔	Wood	20 in.x18 ft.	Wood	Wood	95%
Woodline Co. **1521 W. 14th St., Dept. TB** **Long Beach, CA 90813** **310-436-3771; Fax: 310-436-8891**	Architectural wood products: Wood carvings and corbels, stair parts, finials, capitals, and posts.	Free Write in No. 524	✔	✔		Wood	36 in.x16 ft.	Wood	Wood	100%
Worthington Group **P.O. Box 868, Dept. TB** **Troy, AL 36081** **800-872-1608; Fax: 334-566-5390**	True classical wood columns in all the basic orders. Also, FiberClassics columns and balustrades and architectural moldings. Lifestone exterior columns have touch and feel of wood, with a lifetime warranty. Unique balustrade system in proprietary fiberglass composite will last a lifetime.	Free Write in No. 163		✔	✔	Wood, polymer composite	30 in.x30 ft.	Polymer/ composite, plaster/gypsum	Polymer/ composite, proprietary fiberglass	20%
Ziggurat Architectural Ornaments **1702 N. Milwaukee Ave., Dept. TB** **Chicago, IL 60647** **312-227-6290; Fax: 312-227-6289**	Architectural antiques, including vintage columns & pilasters, mantels, tile inserts, firebacks, grates, irons, potbelly stoves, garden ornament; Art Deco fountains, interior lighting, stained and beveled glass, ironwork, terra cotta, and more.	Free Write in No. 782	✔	✔	✔	Wood, plaster, stone, copper	24 in.x10 ft.	Stone, wood, plaster	Stone, wood, terra cotta	0%

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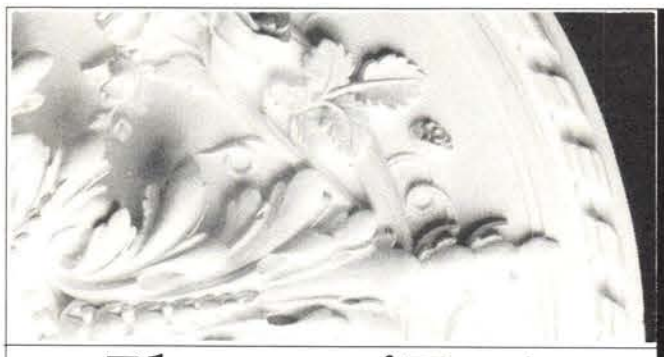

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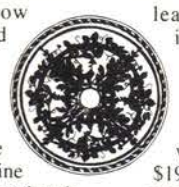

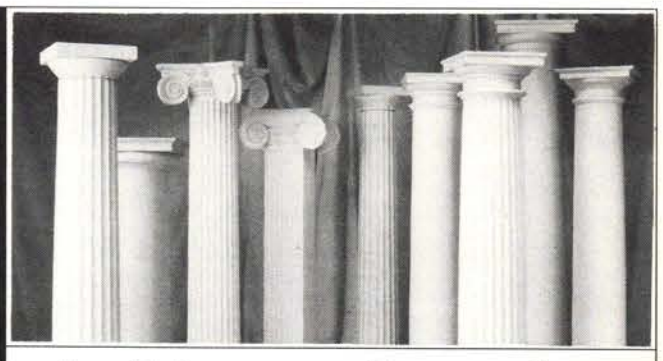

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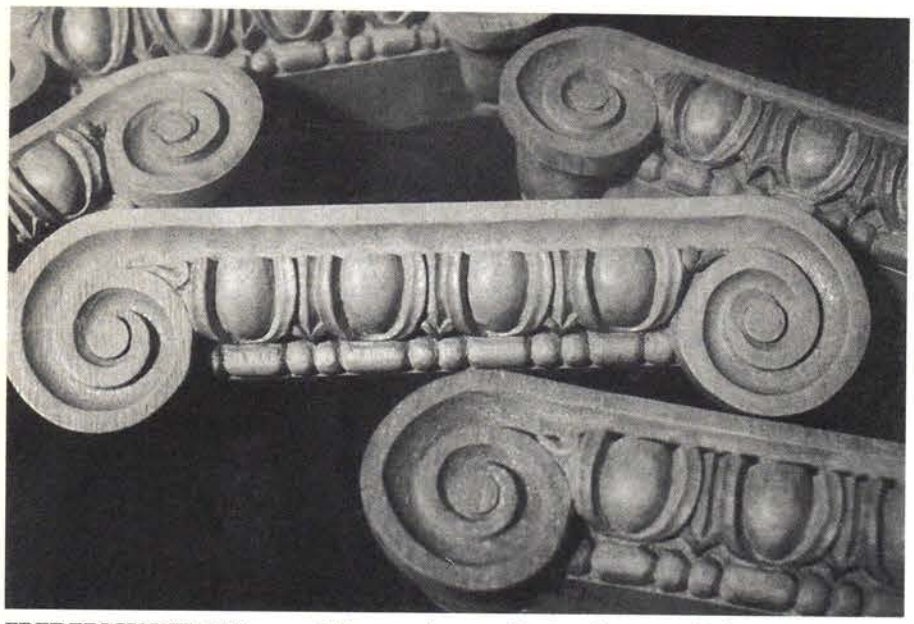
COLUMNS, CAPITALS & BALUSTRADES PORTFOLIO

For more information on these companies, consult the SourceList on pp. 20-26.



FREDERICK WILBUR carved these mahogany Ionic pilaster capitals as part of the ornamental program for a custom wood mantelpiece. *Write in No. 165*

SCHWERD MFG. was selected to supply the monumental Corinthian columns for the Westminster Presbyterian Church of Allegheny County, Penn. *Write in No. 161*

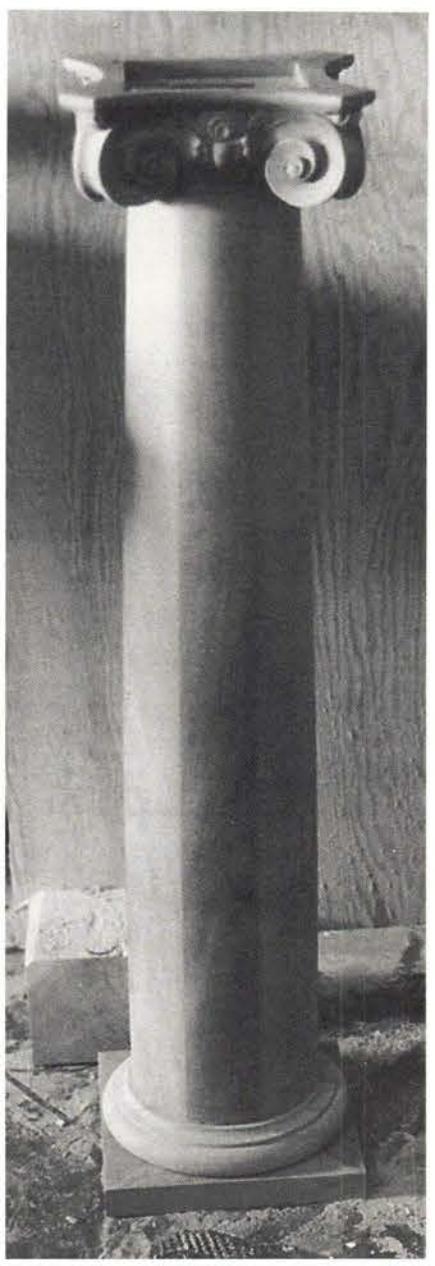
ESSEX WORKS created capitals and pediment bases from precast concrete for the restoration of St. Ann's Church in Brooklyn, NY. *Write in No. 720*

ARCHITECTURAL REPRODUCTIONS used GFRC to produce these hollow capital and base replacements for deteriorating sandstone originals. The original marble shafts were core-drilled to allow for installation of structural steel columns that support the weight of the massive stone arches above. *Write in No. 613*

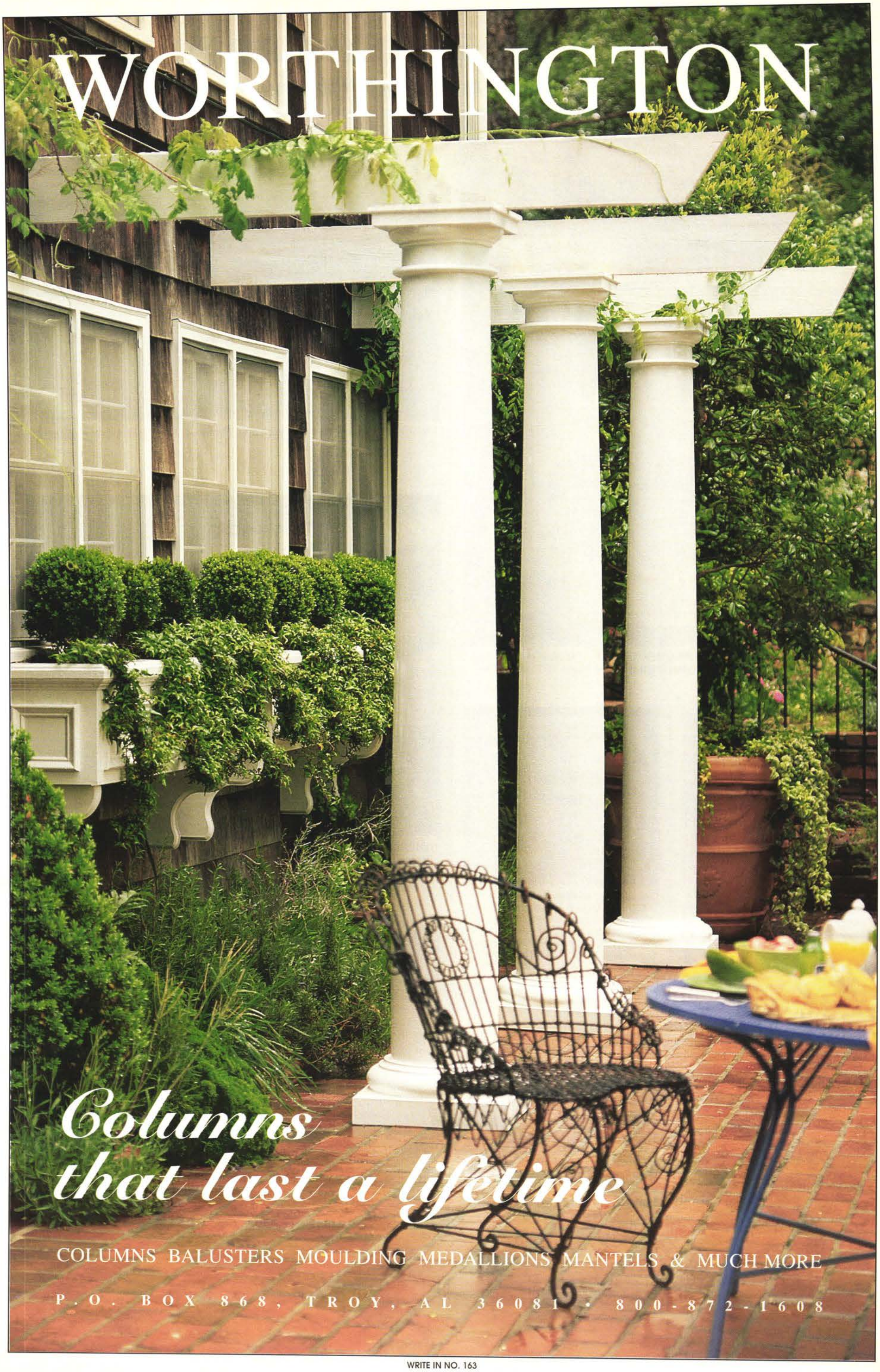
Columns and carved ornament are just a sampling of the ornamental architectural elements available from CLASSIC ARCHITECTURAL SPECIALTIES.

Hardwood balusters and newels are available from GAIL REDMAN WOODTURNING. *Write in No. 627*

As part of its massive inventory of antique architectural elements, ZIGGURAT has this c. 1918 Byzantine style scagliola column salvaged from a Chicago-area church. *Write in No. 782*



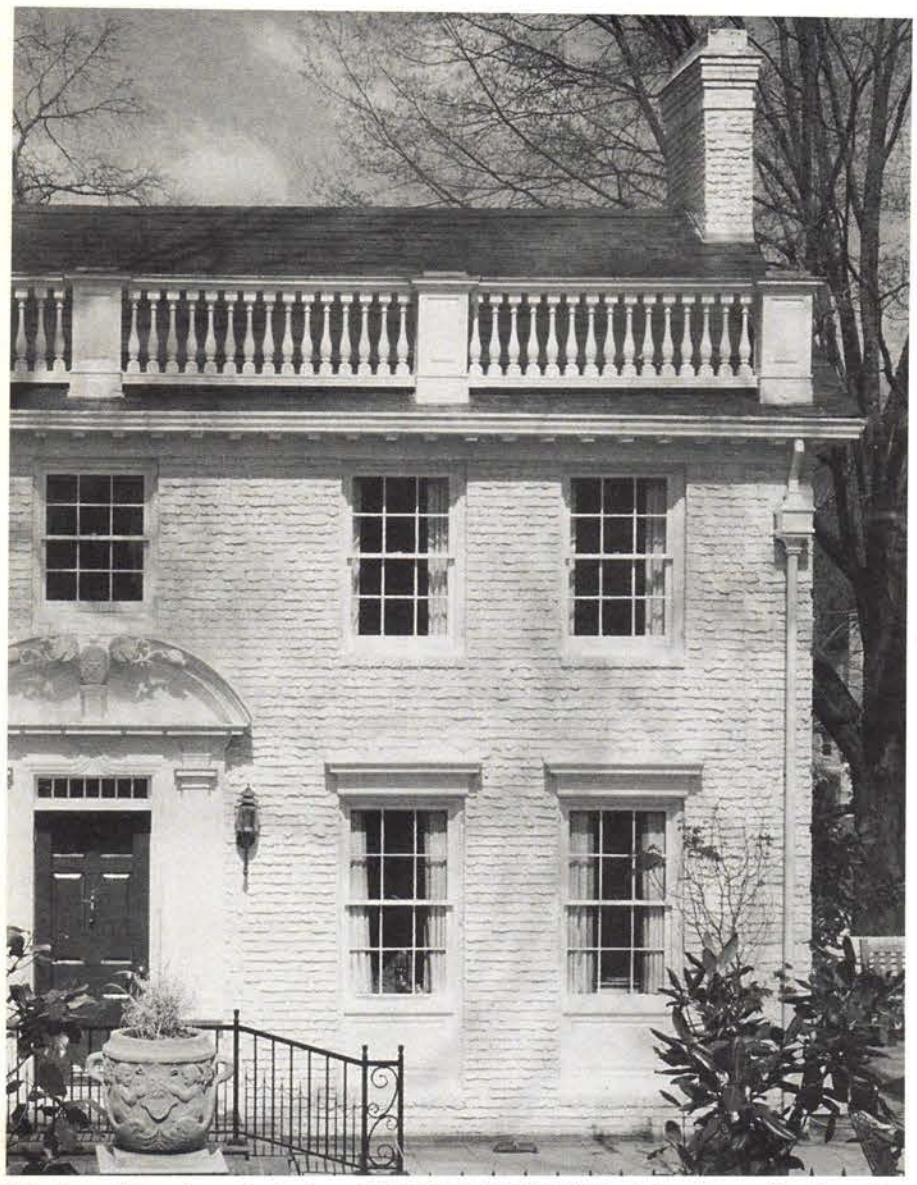
These cherry wood columns, from TURNCRAFT, feature carved Ionic capitals. *Write in No. 561*



WRITE IN NO. 163

COLUMNS, CAPITALS & BALUSTRADES PORTFOLIO

For more information on these companies, consult the SourceList on pp. 20-26.



Exterior millwork products from CROWN HERITAGE include pine and redwood balusters, box newels, and handrails adorning this classic home. *Write in No. 596*

AMERICAST makes cast stone columns, like those flanking this arched entranceway.

WORTHINGTON supplies structurally reinforced Fiberstone balustrading: Shown here are balusters #752 and piers. The balustrading is also available in a keystone finish, to create a Mediterranean flavor. *Write in No. 163*

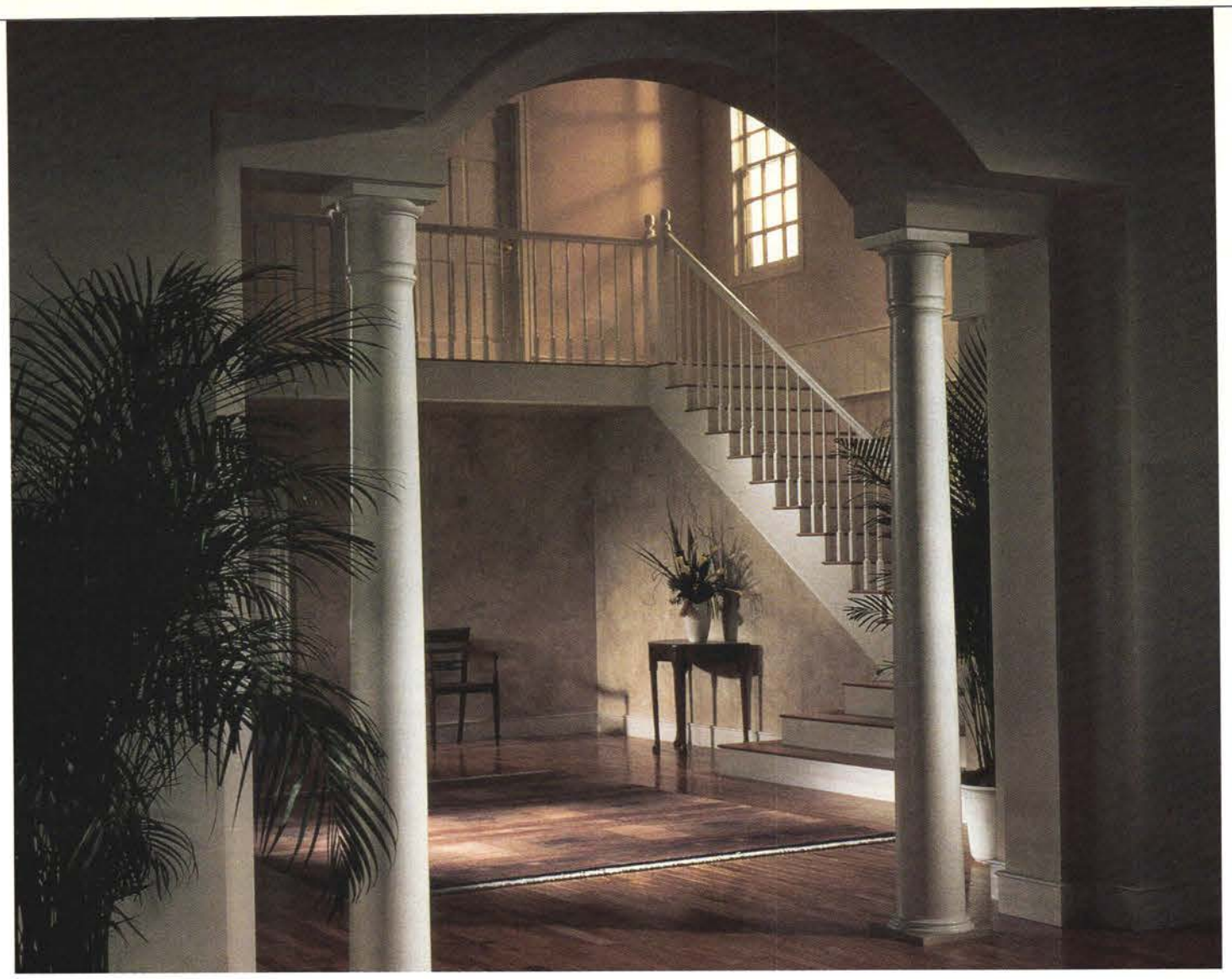
THE WOOD FACTORY specializes in historically styled turnings and ornamental millwork. It supplied this elaborate Victorian residence with its posts, spindles, and exterior woodwork. *Write in No. 712*

One of the specialties of TREADWAY INDUSTRIES is supplying molded architectural ornament for theme parks and other entertainment projects. Shown is a 10-ft. capital in the Egyptian style molded in EPS (expanded polystyrene); a coating of hard "Polygarde" urethane resin provides weather and impact resistance, plus the ability to simulate practically any material or finish. *Write in No. 522*

AGRELL & THORPE's classically trained stonecarvers sculpted this 3 ft. 6-in. Corinthian capital in limestone. *Write in No. 92*

CUMBERLAND WOODCRAFT produces hand-carved solid hardwood capitals and appliques; they are frequently used for back bars and other hospitality applications. *Write in No. 131*

Along with CAD shop drawings, SPAULDING CRAFT can provide expert patternmaking for FRP columns and capitals. *Write in No. 11*



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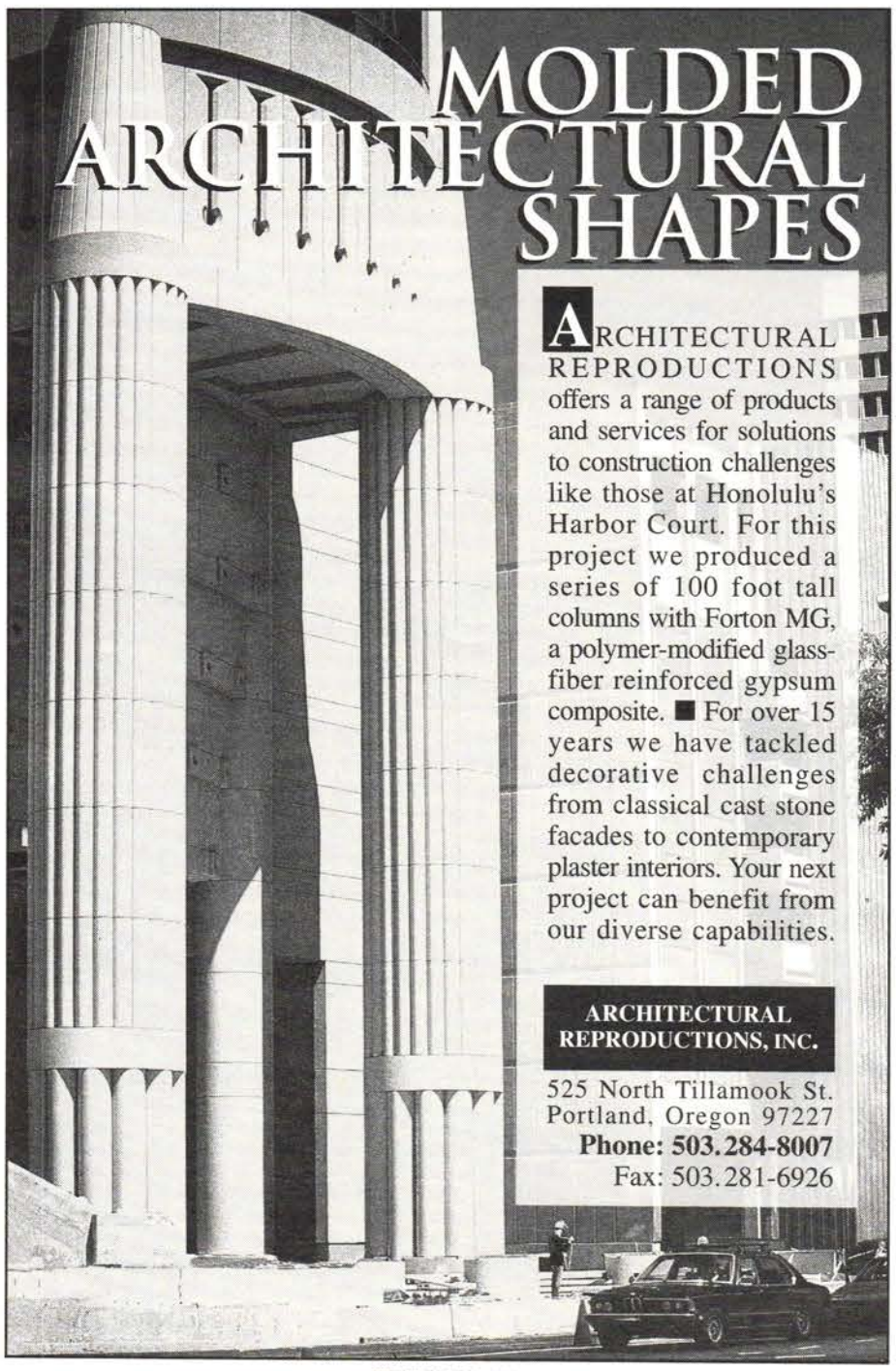

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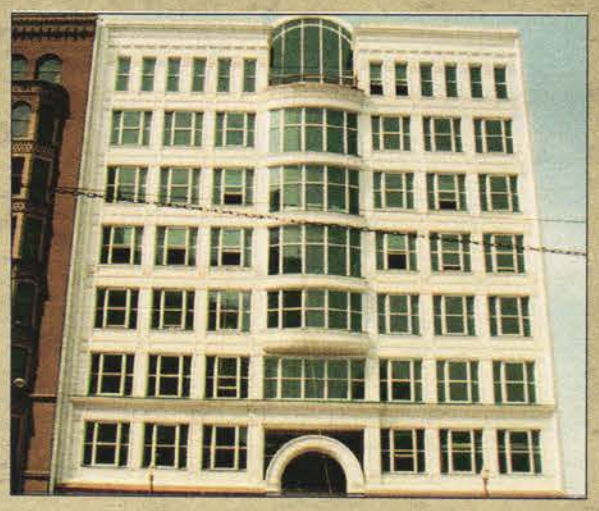

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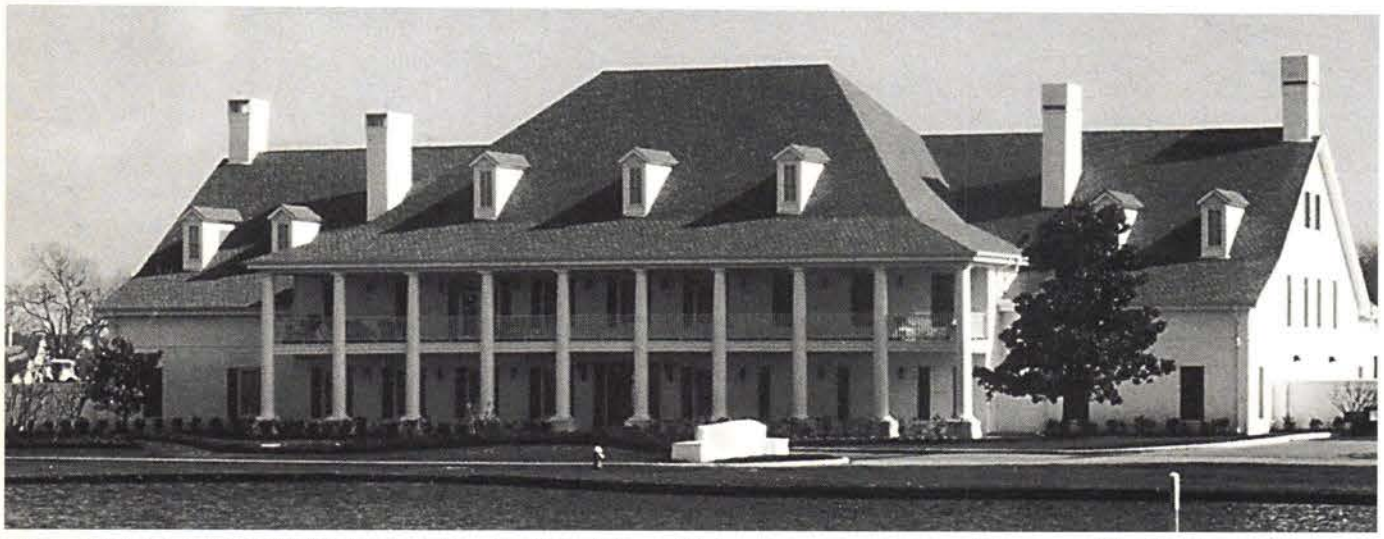
WRITE IN NO. 642

COLUMNS, CAPITALS & BALUSTRADES PORTFOLIO

For more information on these companies, consult the SourceList on pp. 20-26.

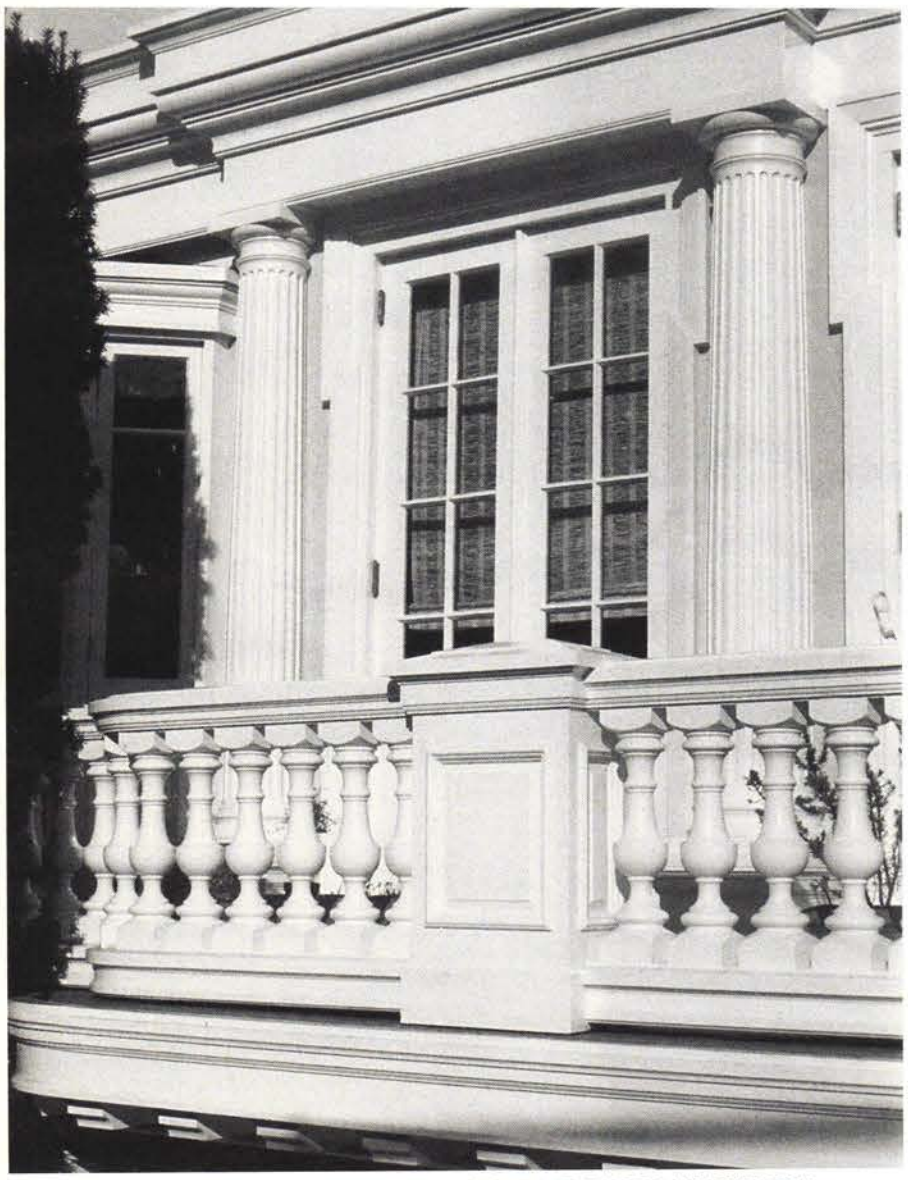
Pilasters, columns, and balusters in wood are just a few of the specialty millwork elements that CENTER LUMBER CO. provides. *Write in 680*

The International Museum of Cartoon Art features unusual geometric capitals and columns fabricated by TECHCRETE.



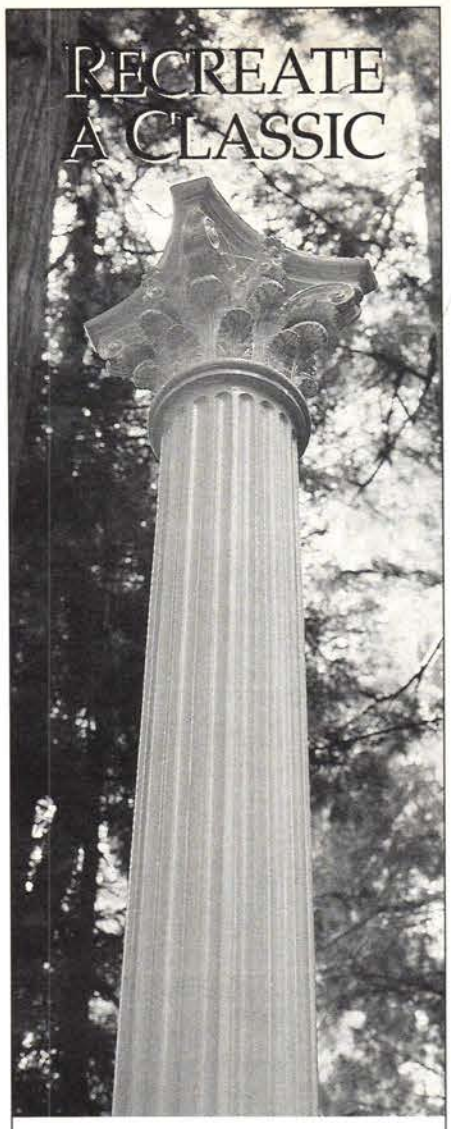
COLONIAL COLUMNS MFG. fabricated and installed the multiple columns, capitals, and bases used for the Pecan Grove Country Club of Richmond, Texas.

VETTER STONE has its own stone production facilities for Northern Minnesota stone, including grey buff and glacier buff. This column was fabricated from their buff stone.



Kiln-dried clear all-heart redwood was used by PAGLIACCO TURNING & MILLING to create this elegant balcony balustrade in San Francisco. *Write in No. 707*

COLUMNS, INC., manufactures load-bearing aluminum columns and elements, including these Scamozzi capitals and decorative aluminum bases for an aerobics center in Dallas, Texas.



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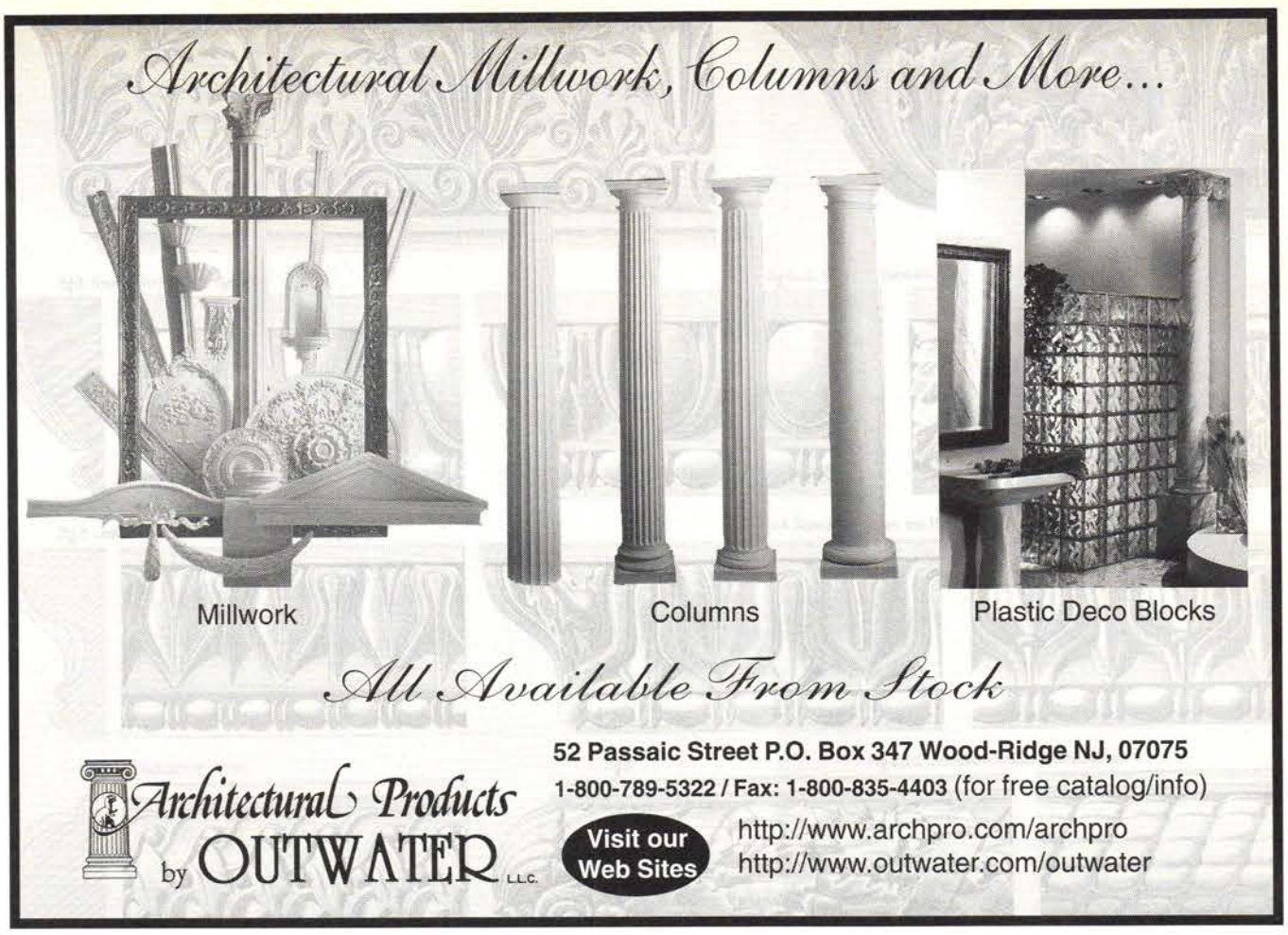

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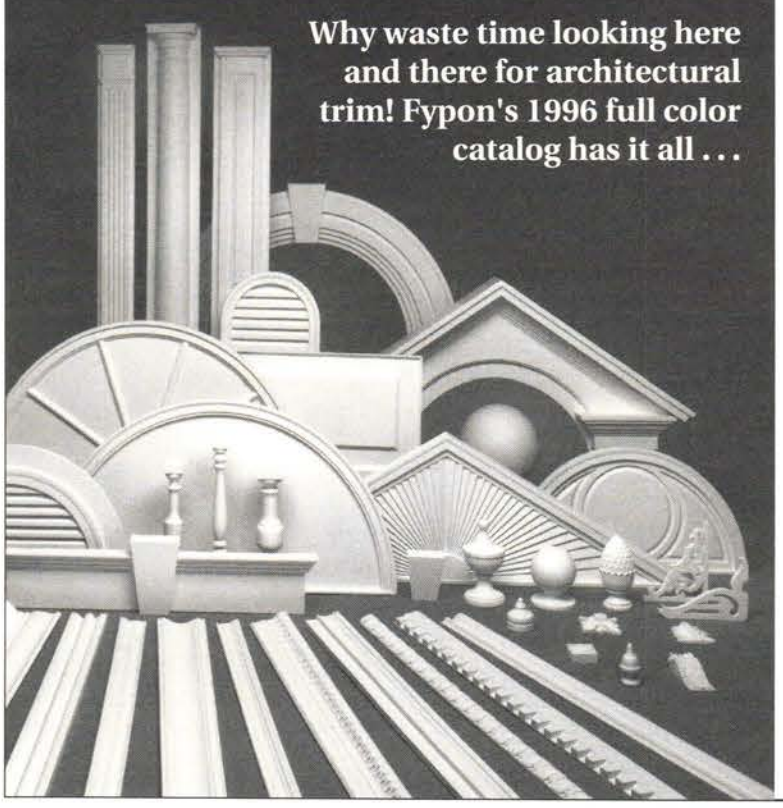

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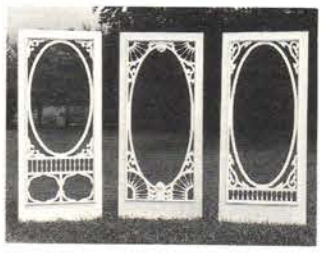

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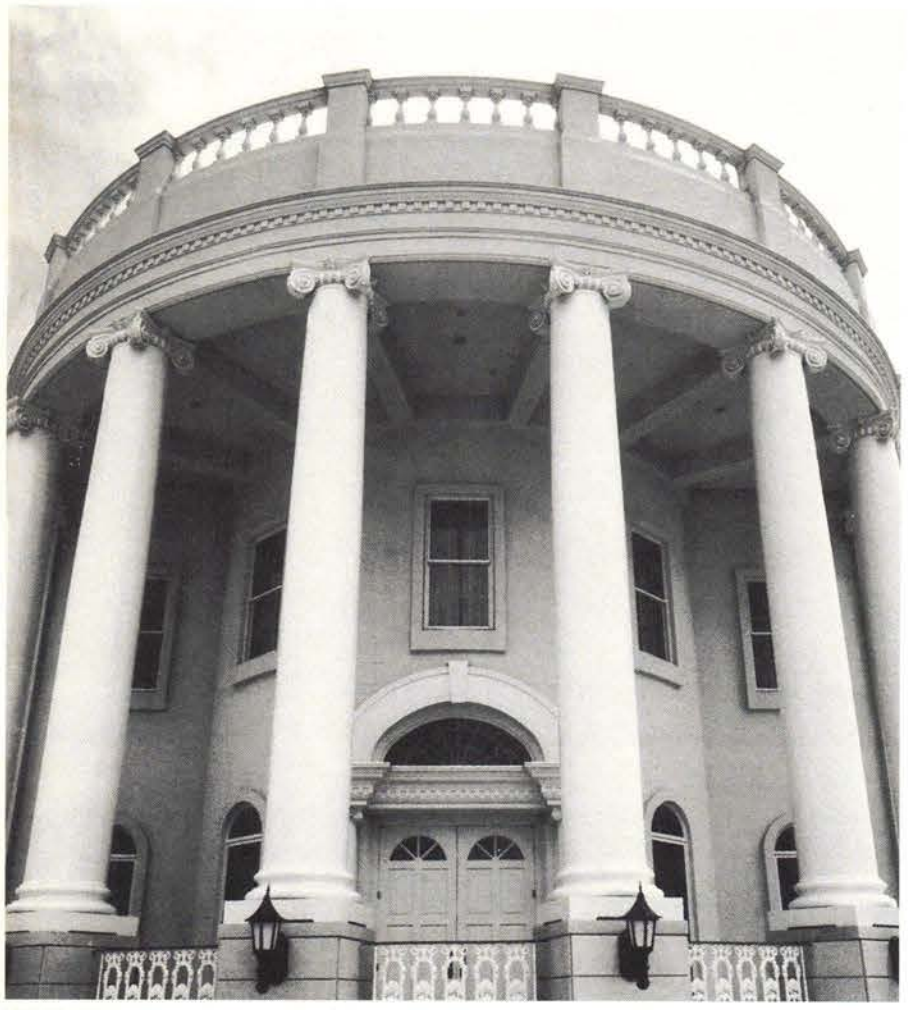
WRITE IN NO. 640

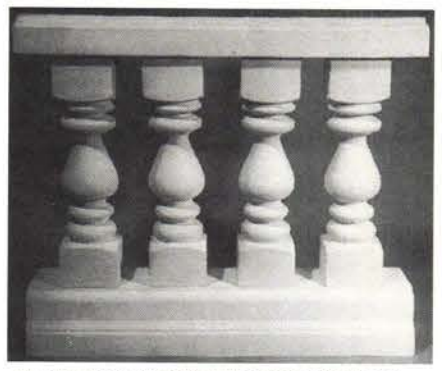
COLUMNS, CAPITALS & BALUSTRADES PORTFOLIO

For more information on these companies, consult the SourceList on pp. 20-26.



NT HARTMANN SANDERS fabricated these Scamozzi capitals and columns for this monumental two-story porch for Trinity Broadcasting, in Texas. *Write in No. 912*

FELBER STUDIOS' pilaster capital #431B has a height of 6-1/2 in., a width of 6-3/8 in., and projects 5/8 in. from the wall. *Write in No. 289*



ARCHITECTURAL PRODUCTS BY OUTWATER supplies columns and balustrades in a variety of styles and in materials ranging from traditional wood to lightweight polymers. *Write in No. 493*

Columns, balustrades, and architectural elements in precast concrete and GFRC are a specialty of ARTLO INDUSTRIES.

The wrought-iron railing on the balustrade over this classically pilastered bay was fabricated by WHITE OAK FORGE. *Write In No. 630*

RORY BRENNAN/PRESERVATION PLASTERING created this replacement capital as part of a larger restoration project requiring plaster ornament produced in the traditional manner. *Write in No. 298*

This Corinthian element from JANUSZ ART STONE, a 29-in. high precast concrete table base with intricate detail, is designed to accommodate a 72-in. tabletop. The base and many other styles are on display at their showrooms in Miami and Boca Raton, Fla.

MELTON CLASSICS replicated and replaced the existing columns and tapered pilasters at the College of Holy Cross, Worcester, Mass. The columns are in clear all-heart redwood. Custom load-bearing fiberglass attic bases and plinths match the originals. *Write in No. 410*

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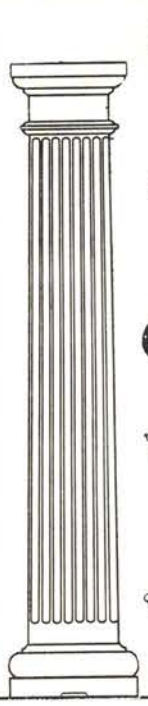

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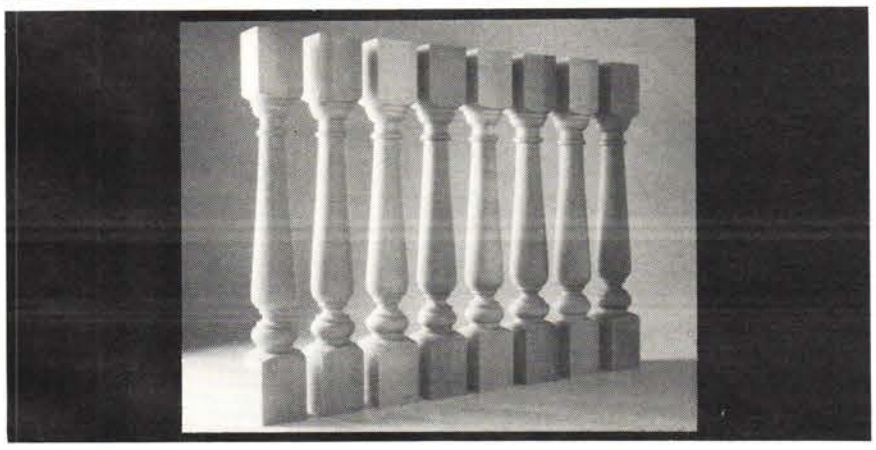

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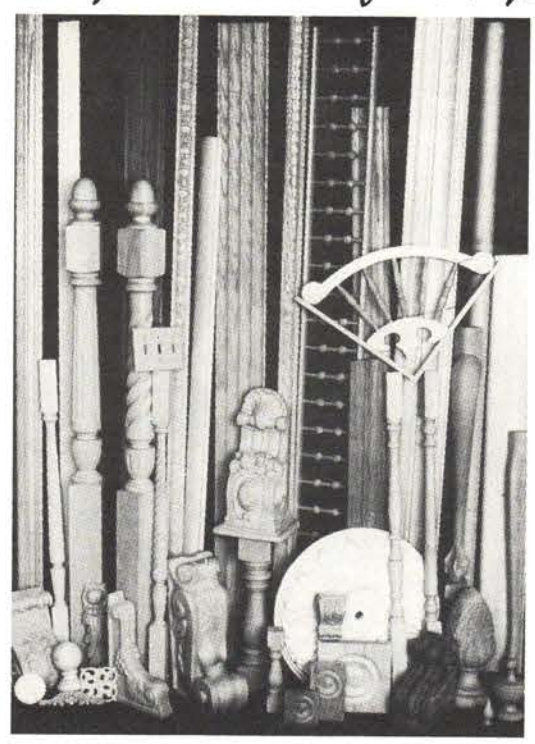

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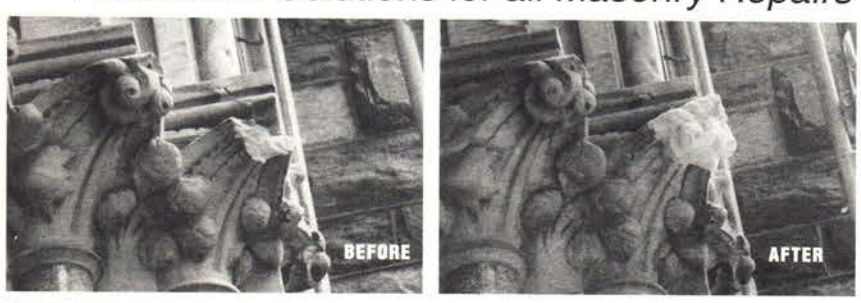

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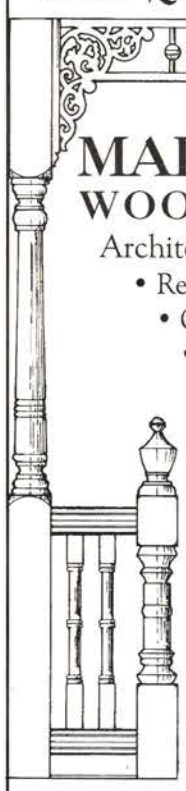

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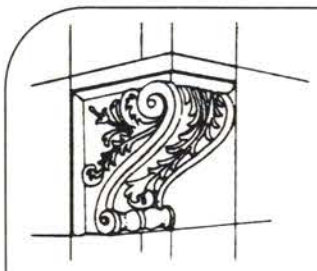

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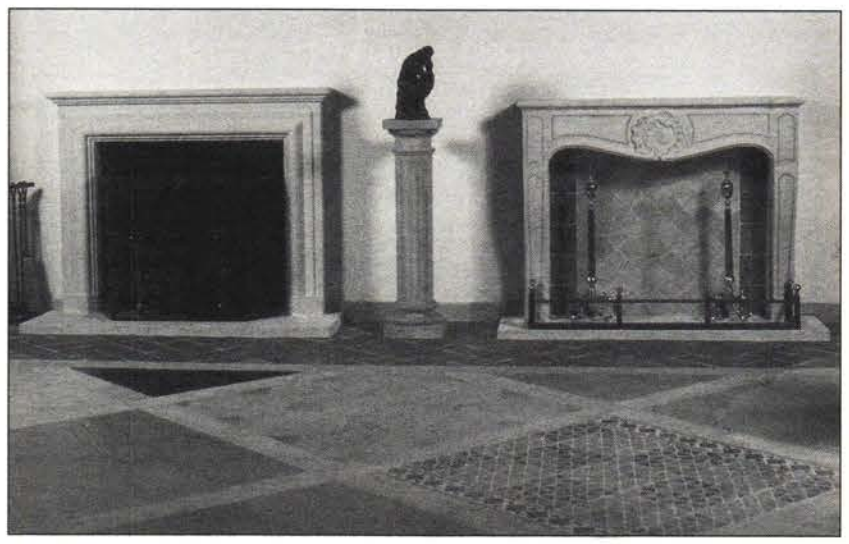

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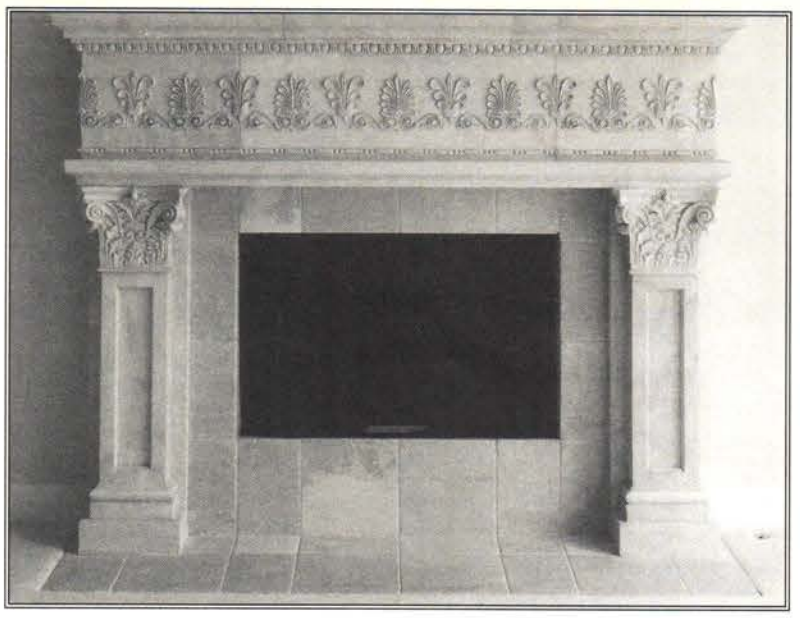

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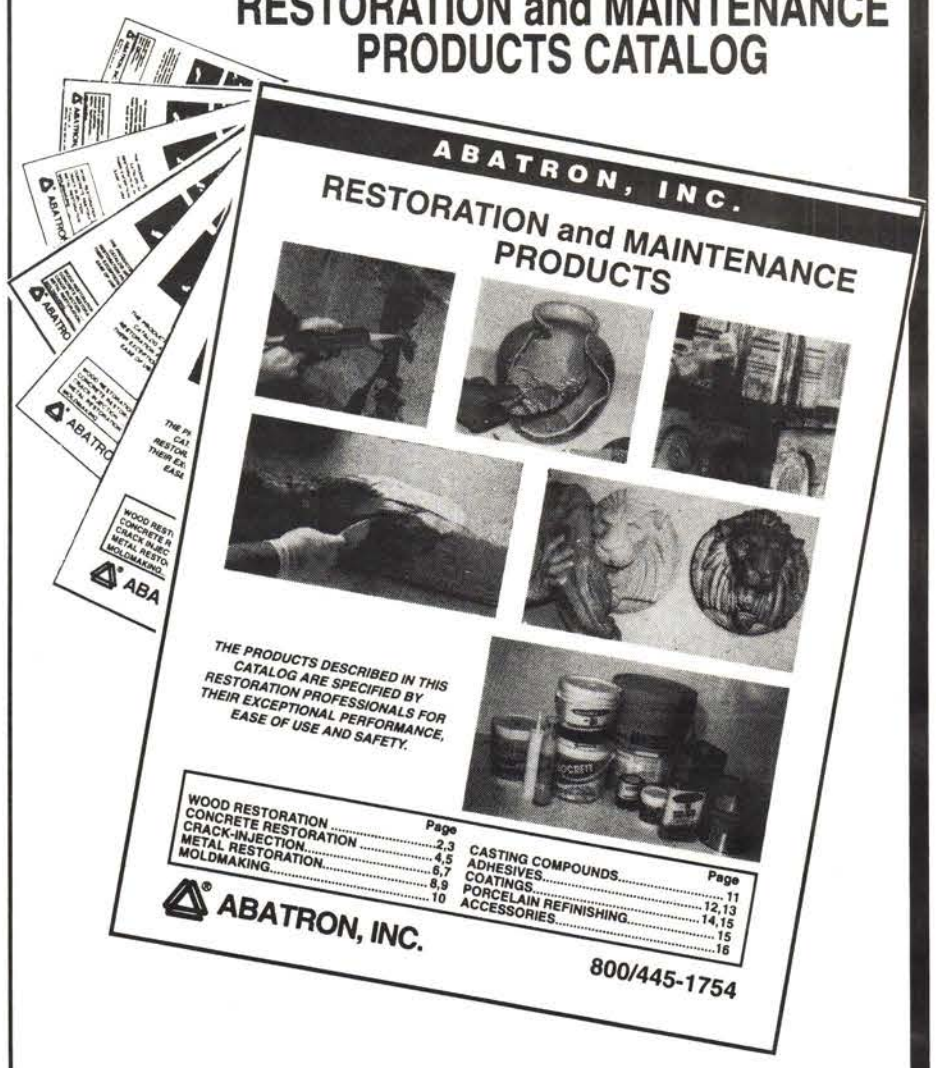

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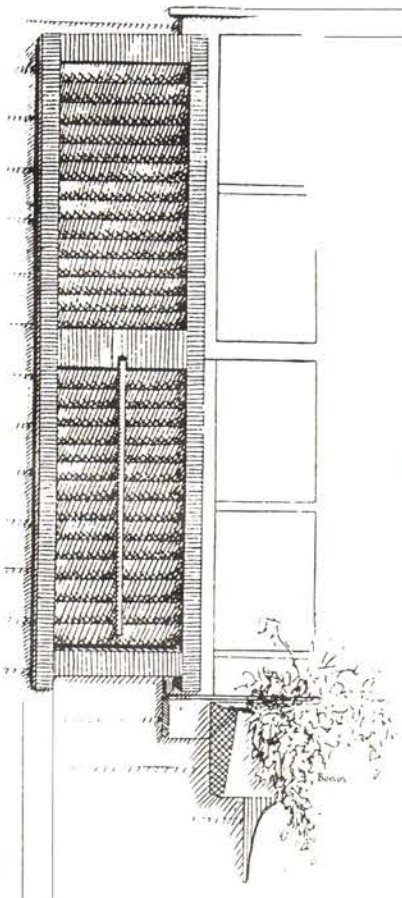

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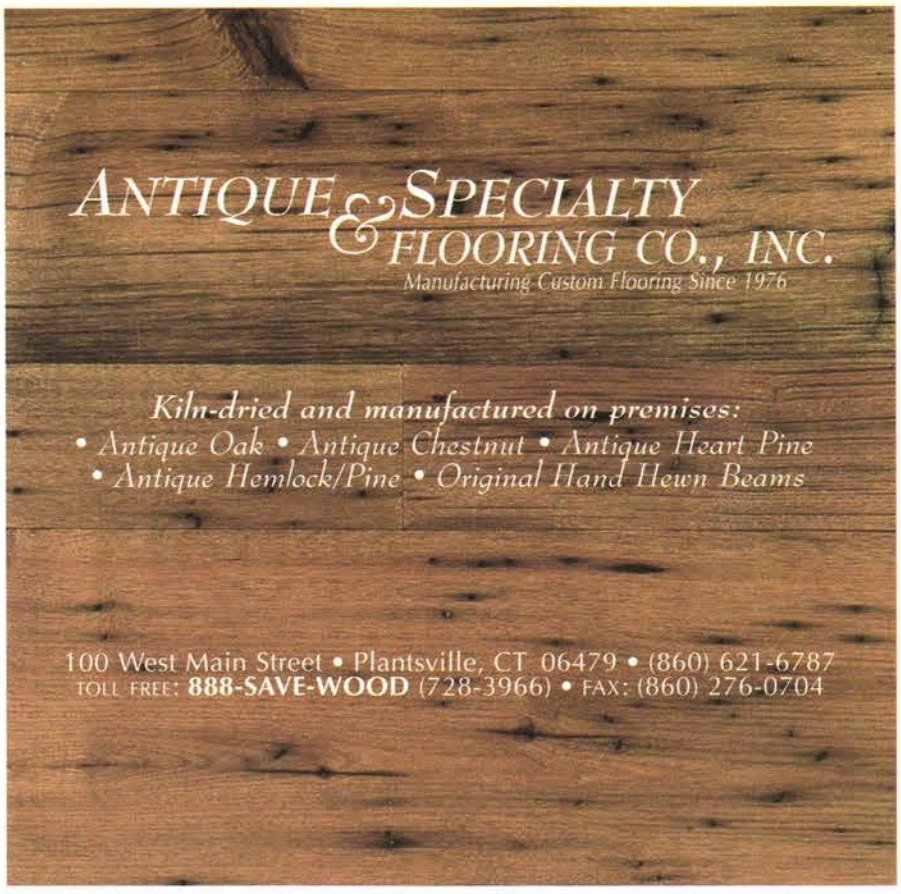

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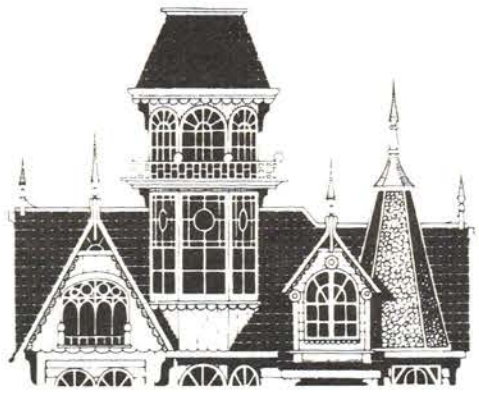

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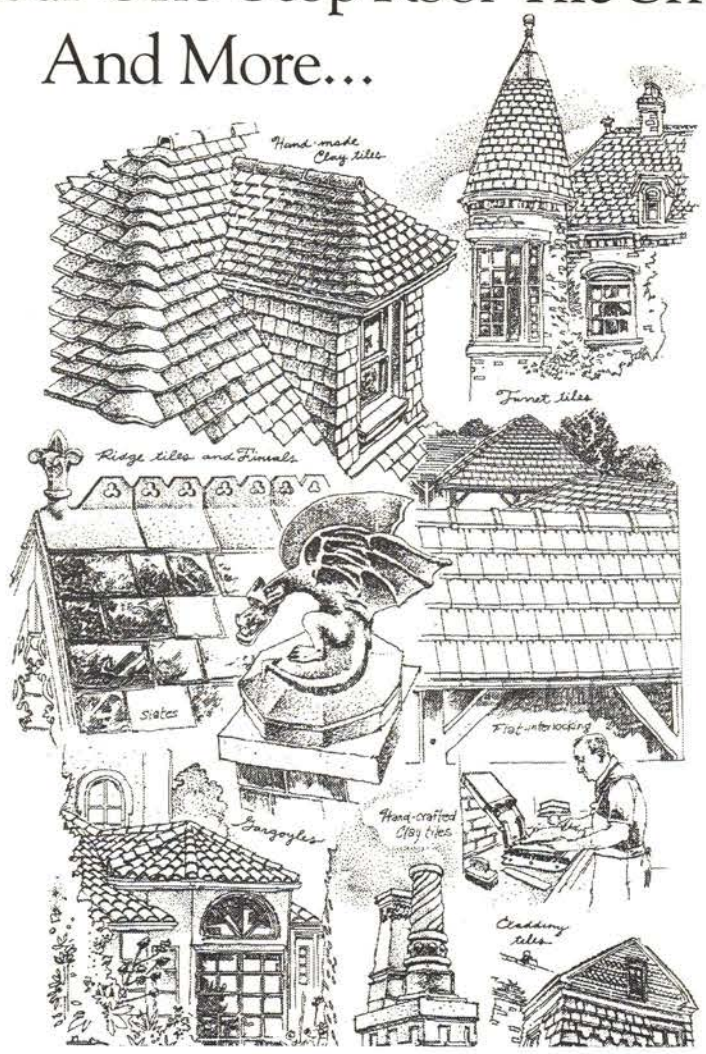

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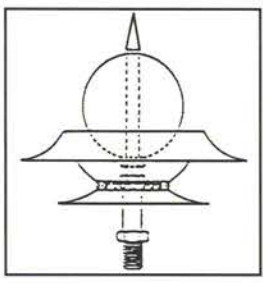

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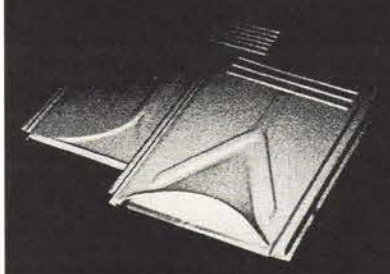

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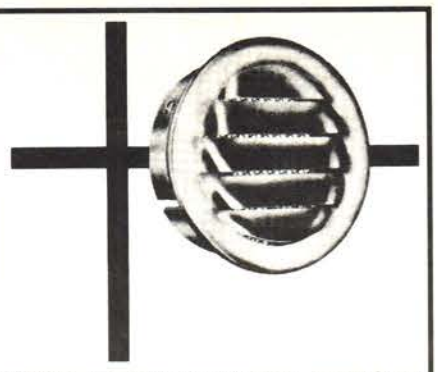

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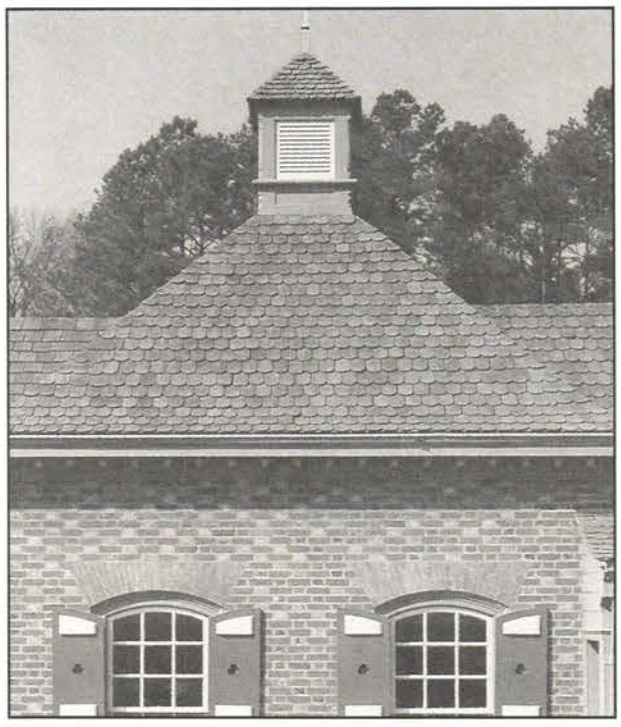

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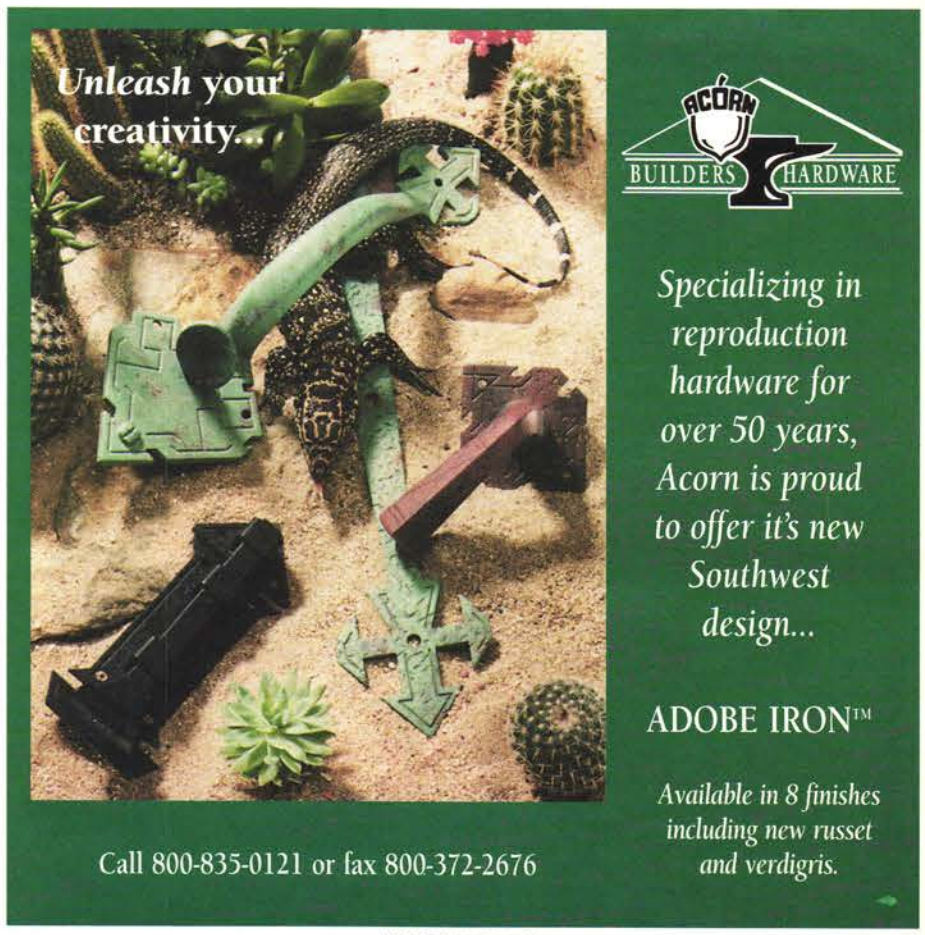

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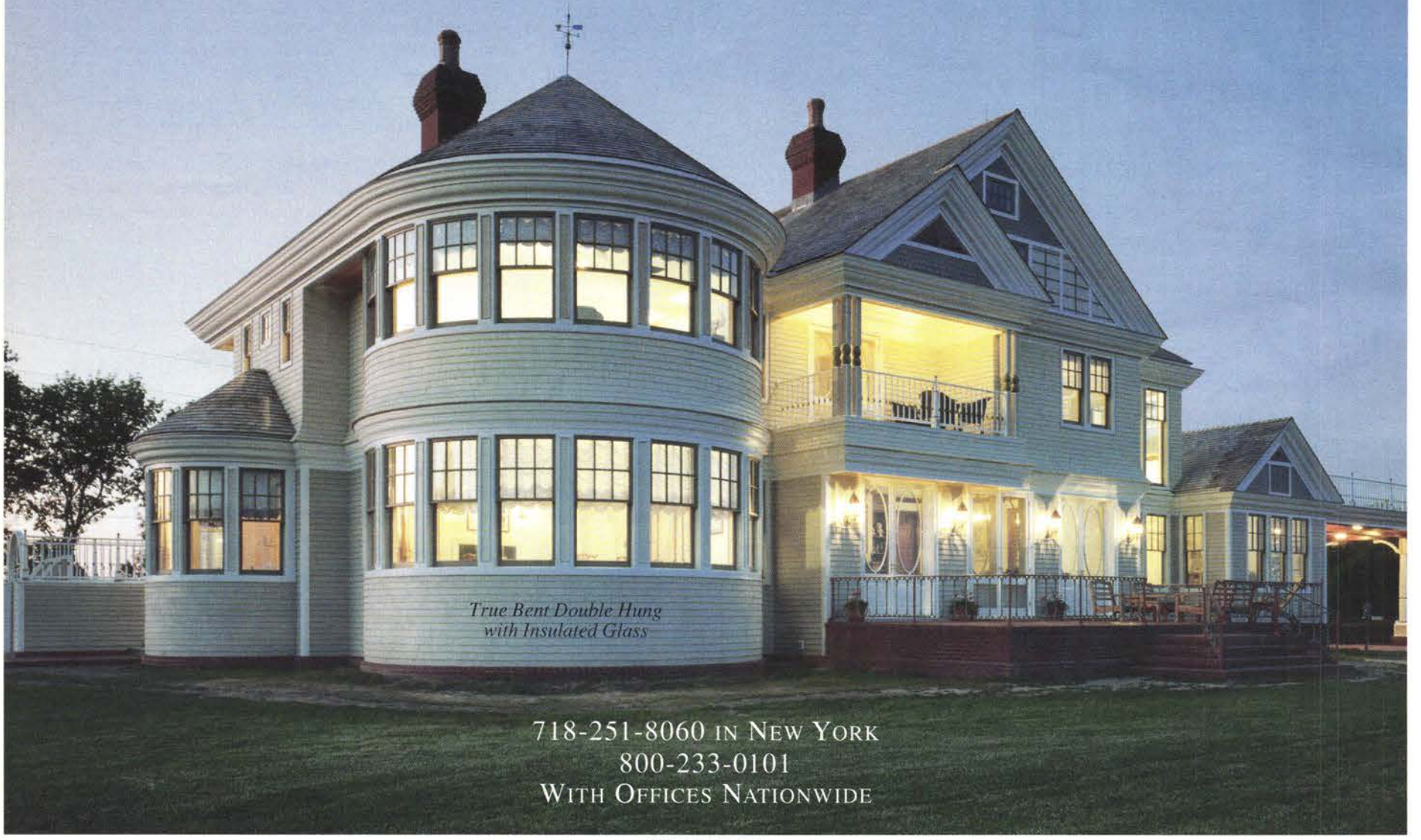

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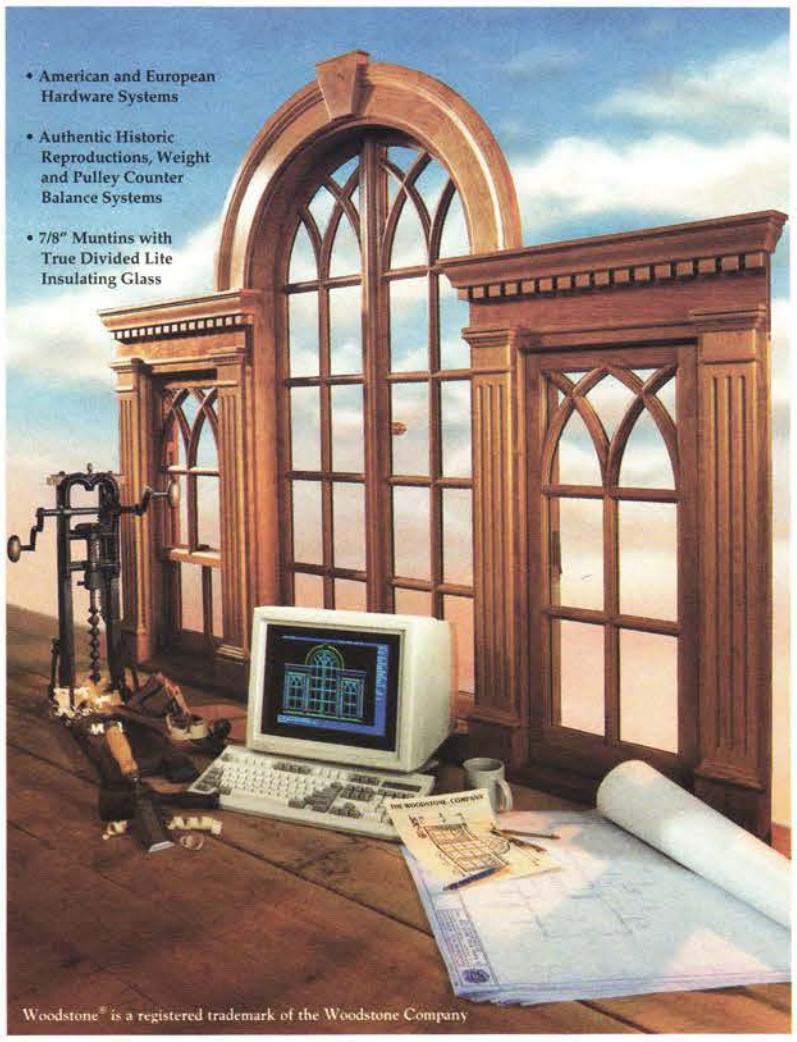

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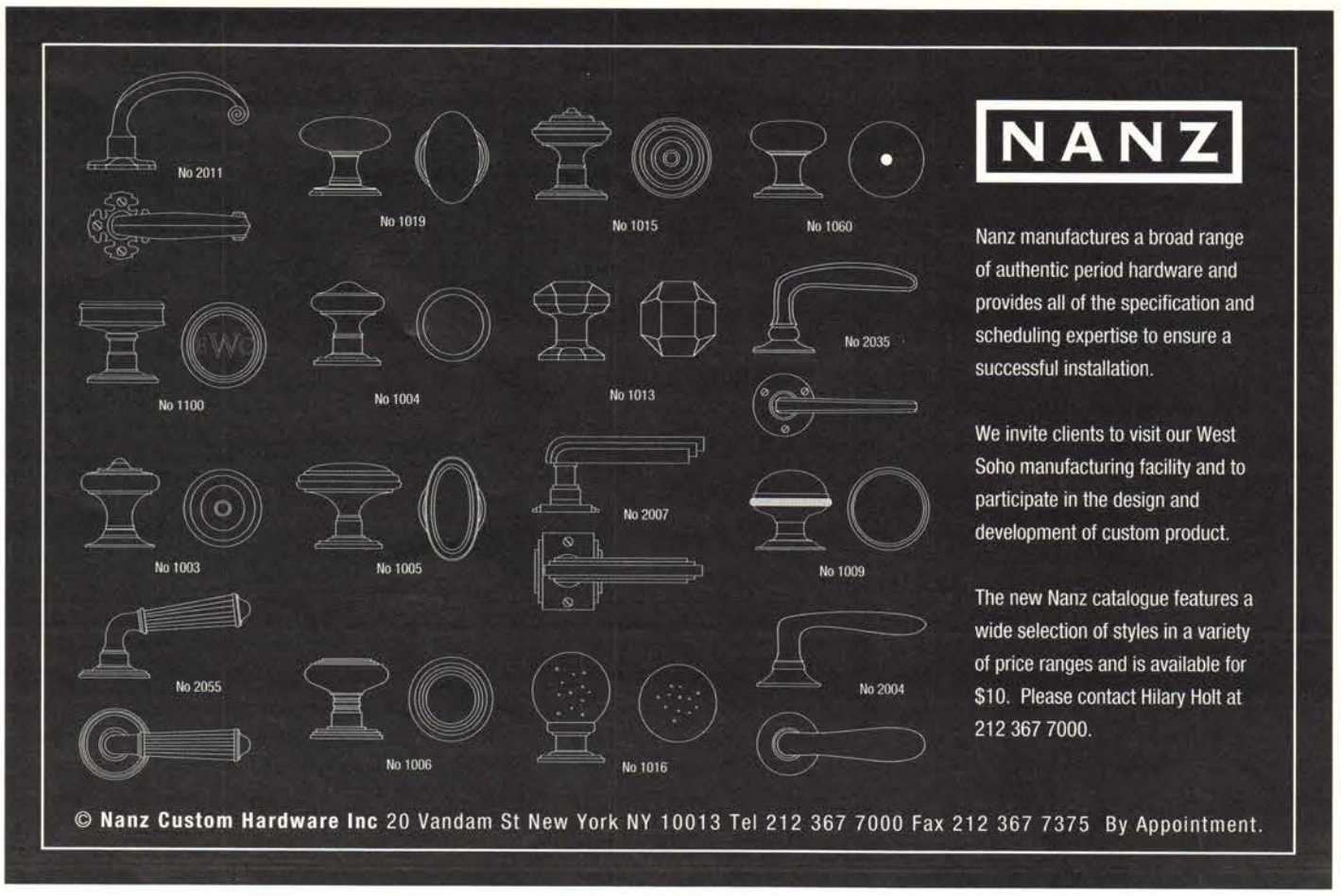

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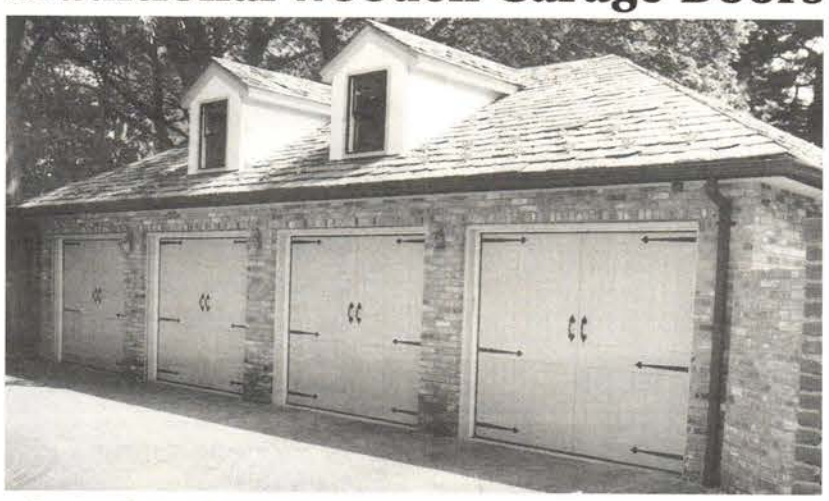

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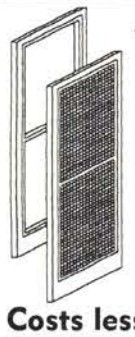

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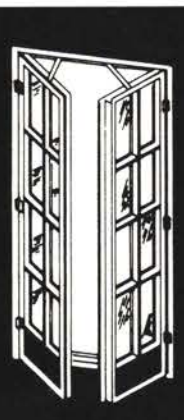

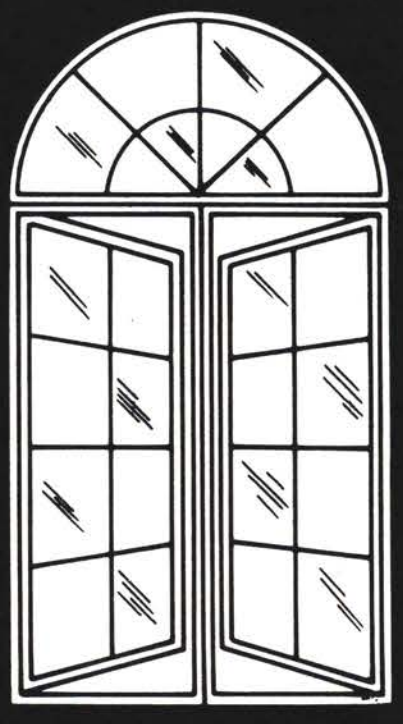

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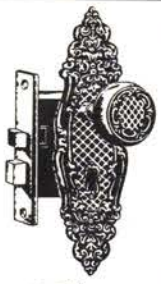

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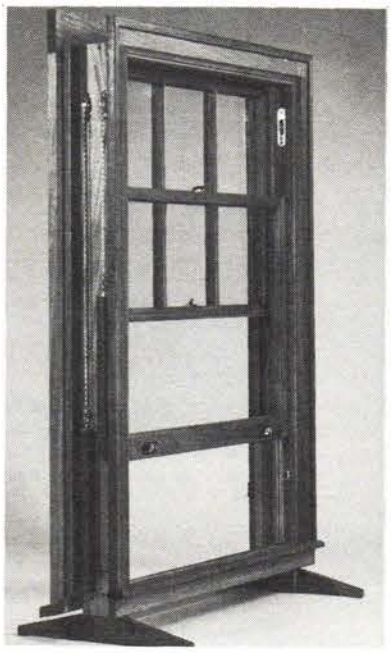

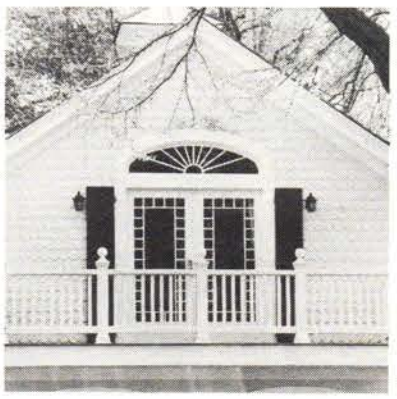

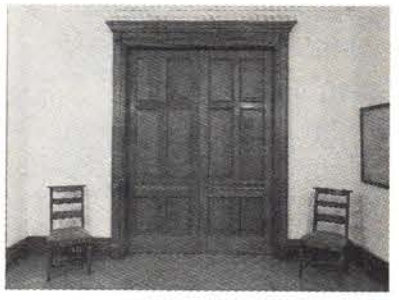

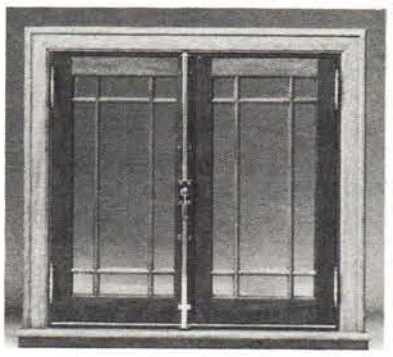

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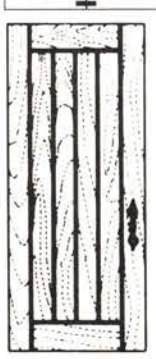

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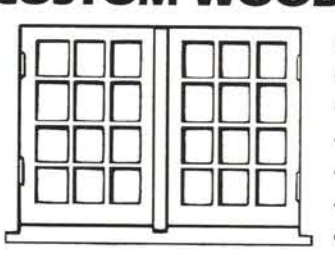

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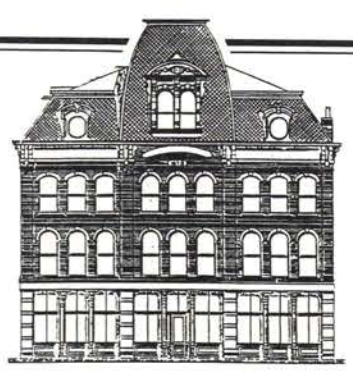

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WRITE IN NO. 679

Art Deco At Your Fingertips

It's the nineties, and like most other things these days, Art Deco is on the Net. Type "Deco" into one of any number of search engines, and a world of period design opens up. Here's how to gain both high-tech — and low-tech — access to all things Deco.

Art Deco, the design style that came about roughly "between the wars," is best recognized by its rhythm of patterns, colors, and shapes, as expressed in ocean waves, flamingos, palm trees, birds, and sunbursts. These are in turn embellished with ziggurats, zig zags, chevrons, and other stepped and repeating geometric patterns. This "futuristic" style permeated many industries: Fashion, textiles, interior design, films, restaurants, musicals, furniture, advertising, graphic design, and, of course, architecture. Buildings and furnishings are further distinguished by their use of materials (glass block, metal, and concrete with natural and geometric forms) and clean, streamlined shapes. Architectural detailing includes rounded and molded corners; patterned and decorative friezes, copings, and panels; and strong vertical and horizontal lines.

Art Deco: The Movement

In 1976, Barbara Baer Capitman, dubbed "First Lady of Art Deco," founded the Miami Design Preservation League — the oldest Art Deco society in the world. Since then, Capitman's work has inspired dozens of other Art Deco societies and organizations throughout the country (see below: *"Surfing the Net for 'Deco'"*). Among her projects dedicated to preserving the architectural style of Art Deco is a book that evolved out of many years of research and outreach, entitled **Rediscovering Art Deco U.S.A. - A Nationwide Tour of Architectural Delights.** Although Capitman died in 1990, colleagues continued her work on the book and, with photographer Randy Juster (whom Capitman felt was a formidable authority on Art Deco), had the book published in 1994.

Thumb through this tome and you will find it expertly describes and photo-documents the best examples of Art Deco structures in the U.S. As Juster declares, "What I like most about Art Deco buildings is that they always seem to be more than is strictly necessary. Details abound. Lighting is often dramatic. There may be any or all of the following: Spectacular elevators, murals, elegant lighting fixtures, a stylized mailbox, inlaid floors, and so on."

The first quarter of the book lists the results of the authors' surveys of Art Deco structures across the country, including (to name a few): Airports, apartments, banks, beaches, bridges, churches, city halls, courthouses, diners, factories, filling stations, hotels, monuments, movie theaters, opera houses, restaurants, stores, train stations, tunnels, and zoos. The cities illustrated are Boston, Chicago, Cincinnati, Dallas/Ft. Worth, Detroit, Indianapolis, Kansas City, Los Angeles, Miami Beach, Milwaukee, Minneapolis/St. Paul, New York, Philadelphia, San Francisco, Seattle, Tulsa, and Washington, D.C.

Rediscovering Art Deco U.S.A. - A Nationwide Tour of Architectural Delights, *by Barbara Capitman, Michael D. Kinerk, Dennis W. Wilhelm, photographs by Randy Juster. 1994; Penguin Books USA, 375 Hudson St., N.Y., N.Y. 10014. 224 pp.; hardcover and paperback.*

Surfing the Net for "Deco"

Not as accessible, but replete with sites for Art Deco societies, publications, furnishings, products, shops, tours, events, and directories, is the Internet. To gain access, put one of any number of search engines to work by typing "deco" in the search field. Depending on which search engine is employed, anywhere from about 90 (Yahoo) to over 1,000 (Lycos) sources will come up. Be warned, though, that "deco" will also bring up "decorative," "decoration," "decor," and any other word containing the four characters named. However, scrolling the lists ("deco" will be highlighted in each entry) allows for easy access to most things Art Deco.

Most impressive on the list are the dozen or so local Art Deco societies. Inquiries to The Art Deco Society of California and The Miami Design Preservation League brought packages with copious materials: A periodical describing the mission of the group, projects, events, etc.; journals, with local advertising and historical articles and profiles; booklists; calendars; invitations to social gatherings; and, in Miami's case, a treatise on the history of the city vis-à-vis its Art Deco heritage, replete with historic district and individual building descriptions.

Who's On The SourceList

Style revivals seem to repeat themselves, in chronological order, after enough time has passed; it's only then that the general public is ready to accept them again. We've already seen the Colonial Revival, followed by the Victorian Revival, and Arts & Crafts has seen a recent resurgence. The time has come for Art Deco to follow suit. As public awareness is heightened, Art Deco reproductions — lighting, wallcoverings, tile, neon, diner furnishings, murals, metalwork, art glass, and hardware — will become readily available in the market, as have earlier historical styles. A glance at the accompanying *SourceList* (pp. 52-58) will show that the trend is well underway.

For this, our first Special Report on **Art Deco**, the Editors solicited responses from over 240 suppliers. Some we knew to carry Art Deco fixtures and furnishings; others, because they were mostly custom shops, could accommodate Art Deco orders. From the companies that responded, 78 seemed most appropriate to list in this Special Report. ■ *JSL*

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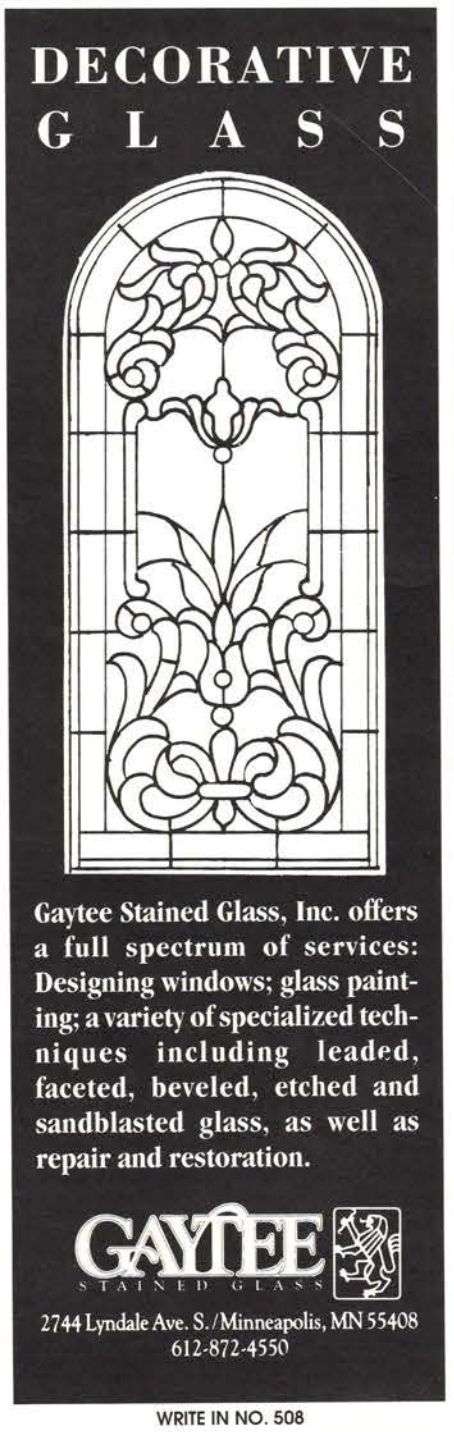

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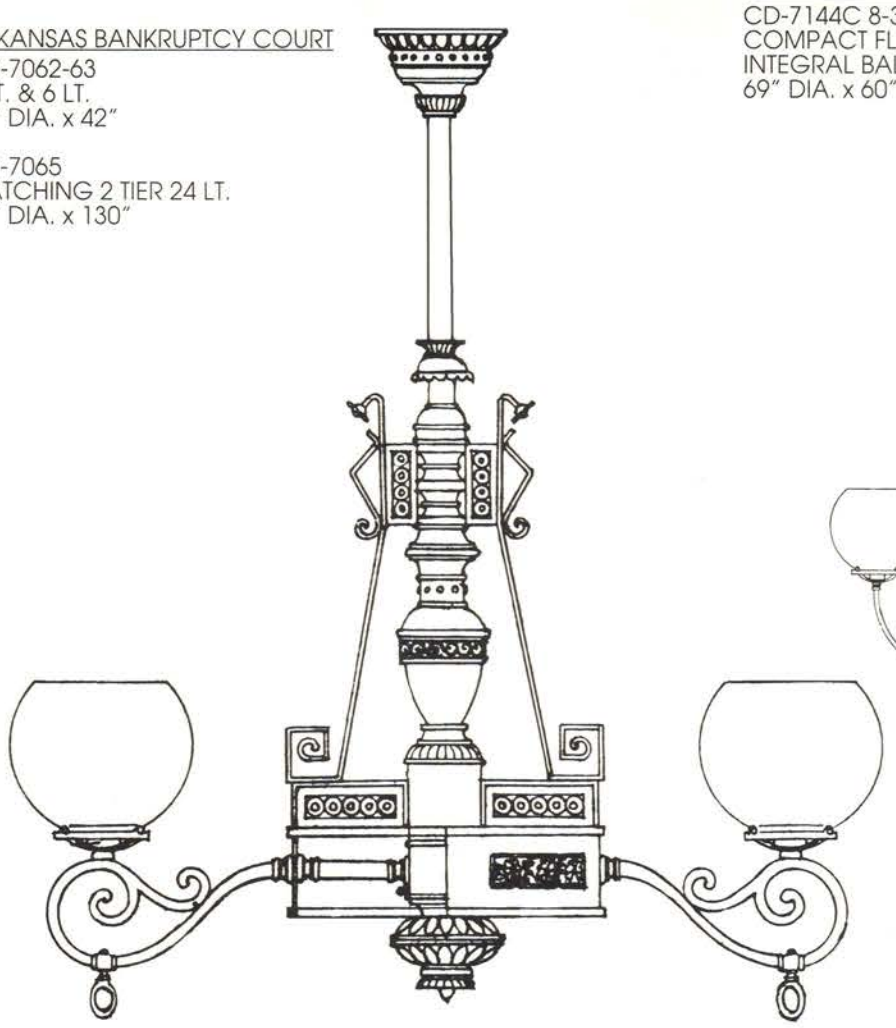

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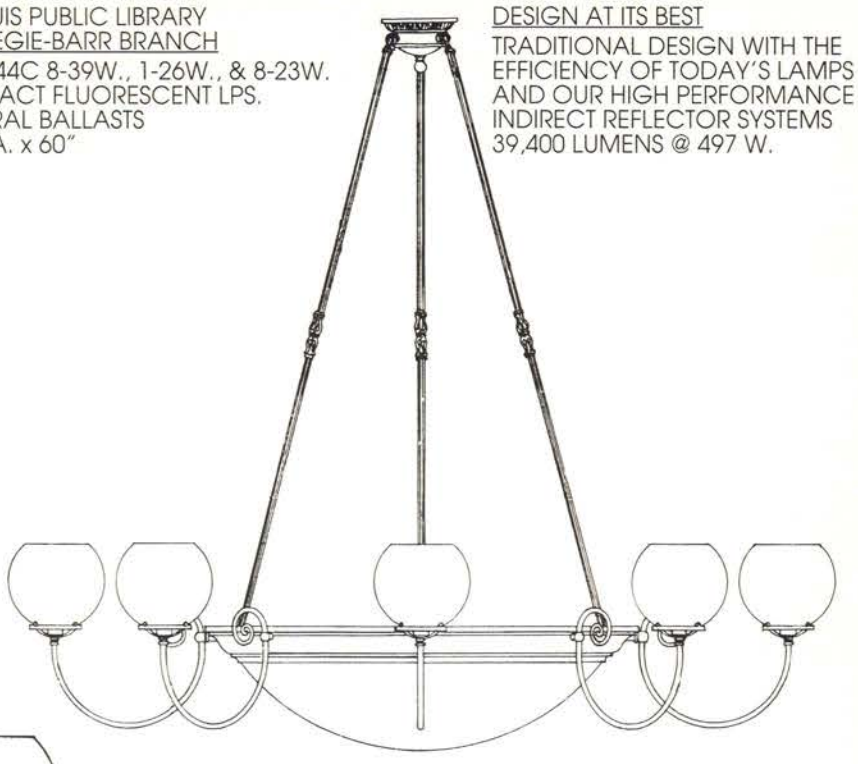

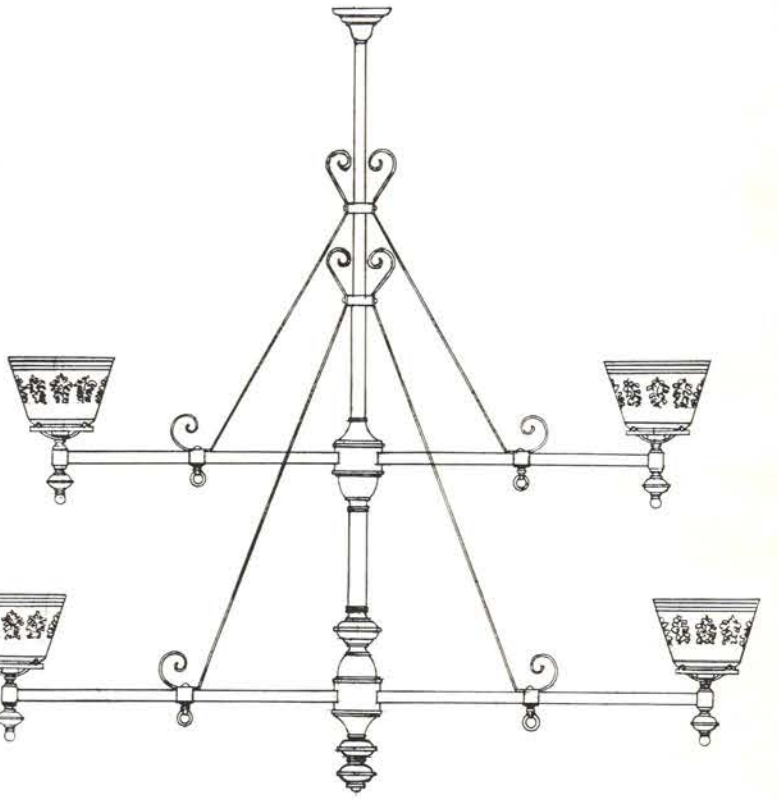

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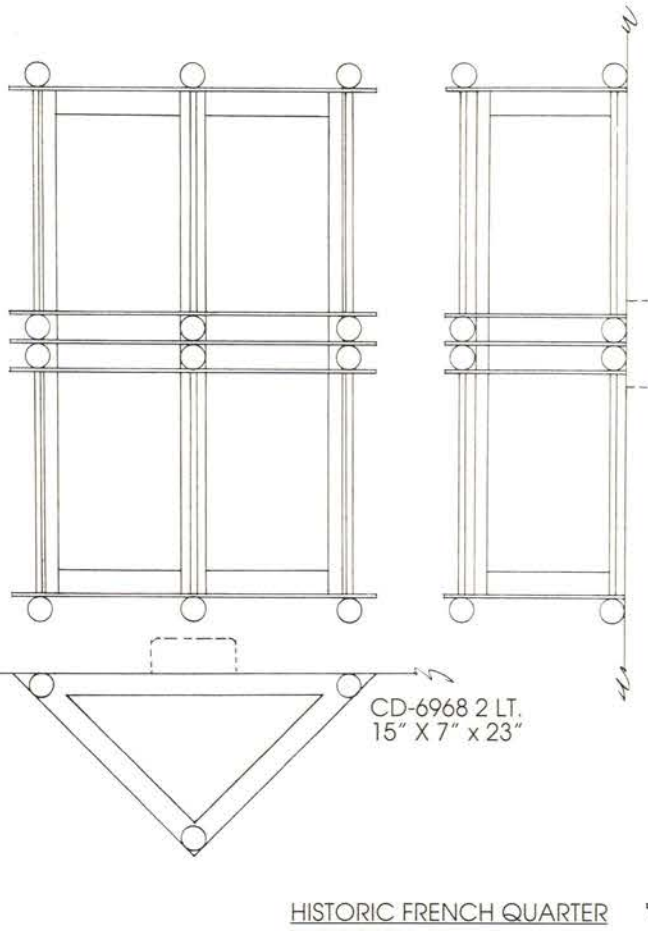

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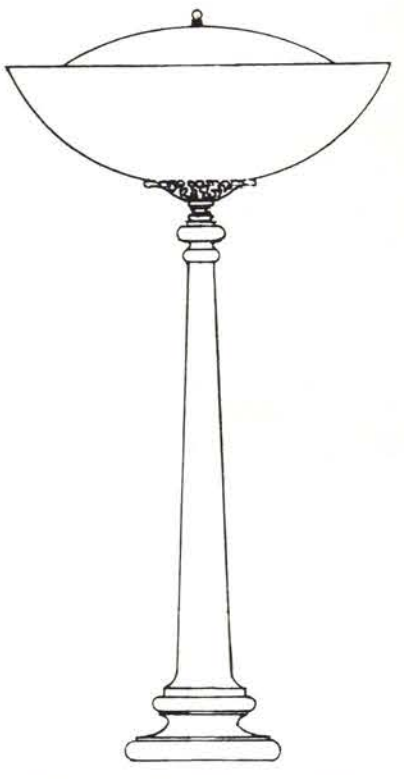

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AA-Abbingdon Affiliates, Inc. 2149-51 Utica Ave., Dept. TB Brooklyn, NY 11234 718-258-8333; Fax: 718-338-2739	25 original designs of tin panels for ceilings and walls, and 13 cornice styles. Finishes: Unpainted or prepainted white, brass- or copper-plated, and chrome.	Free Write in No. 892								✔					✔		
Alger International 2902 Nebraska Ave., Dept. TB Santa Monica, CA 90404 310-264-9800; Fax: 310-264-9808	Custom manufacture of lighting fixtures using various cast metals; period and contemporary styles. Extensive experience in replication and renovation work.	Free	✔	✔													
American Diner 160 Atlantic Ave., Dept. TB Providence, RI 02907 401-461-7932; Fax: 401-351-0127	Fabrication of stainless-steel interior and exterior trim, diner stools, lighting, porcelain enamel panel fabrication; diner restoration and rehab; consultation and project plan development.	Free		✔				✔							✔	✔	
Ann Wolff Glass Design 1161 Saint Paul Street, Dept. TB Denver, CO 80206 303-388-8350; Fax: Same as phone	Custom residential and commercial art glass windows — traditional and contemporary. Art glass restoration.	Free Write in No. 626									✔						Art glass restoration
Antiquarian Traders 9031 W. Olympic Blvd., Dept. TB Beverly Hills, CA 90211 310-247-3900; Fax: 310-247-8864	American Victorian, French, Art Nouveau, and Deco antiques, 19th-20th centuries, for bedrooms, dining rooms, parlours, and offices; lighting; architectural pieces; 4,000-sq.ft. woodworking/refinishing shop.	Free Write in No. 95	✔	✔				✔		✔				✔	✔		Gates
Antiquarian Traders 399 Lafayette St., Dept. TB New York, NY 10003 212-260-1200; Fax: 212-529-5320	American Victorian, French, Art Nouveau, and Deco antiques, 19th-20th centuries, for bedrooms, dining rooms, parlors, and offices; lighting; architectural pieces.	Free Write in No. 95	✔	✔				✔		✔				✔	✔		Gates
Antique Building Material Co. 3707 Fifth Ave., #324, Dept. TB San Diego, CA 92103 619-233-1144; Fax: Same as phone	Garden and architectural antiques auction (18th-mid-20th century) held bi-annually in San Francisco or by apt. in either San Francisco (415-437-2390) or San Diego.	Free Write in No. 321	✔	✔	✔	✔	✔	✔		✔	✔	✔	✔		✔		Statuary, urns, fences, gates, fountains
Architectural Products By Outwater 52 Passaic St., Dept. TB Wood-Ridge, NJ 07075 800-835-4400; Fax: 800-835-4403	Period plaster, wood, and polymer mantels, ceiling medallions, cornice moldings, columns, capitals, ceiling panels, brackets, domes, niches, sconces, and corbels. Prefabricated acrylic block for windows and walls.	Free Write in No. 493							✔		✔			✔			Stamped ceiling panels
Arsco Mfg. Company, Inc. 3564 Blue Rock Rd., Dept. TB Cincinnati, OH 45247 800-543-7040; Fax: 513-741-6292	Manufactures steel radiator enclosures and baseboard covers for steam and hot water heating systems.	Free Write in No. 861															Radiator enclosures
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Brass Reproductions 9711 Canoga Ave., Dept. TB Chatsworth, CA 91311 818-709-7844; Fax: 818-709-5918	Manufacturers of solid-brass lighting, specializing in turn-of-the-century and Victorian styles, for both residential and commercial applications.	Free flyer; 44-pg. color catalog, $5 Write in No. 622	✔														
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Canning Studios, John P.O. Box 822, Dept. TB Southington, CT 06489 860-621-2188; Fax: Same as phone	This studio specializes in conservation and restoration of painted ornamentation. The design and execution of murals and decoration is suitable to period interiors.	Free Write in No. 510										✔					
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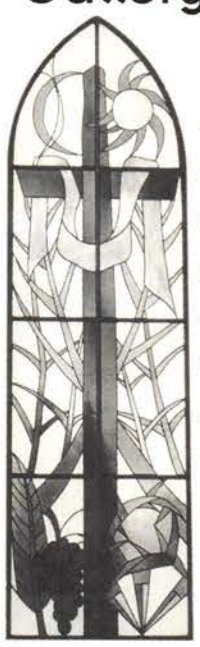

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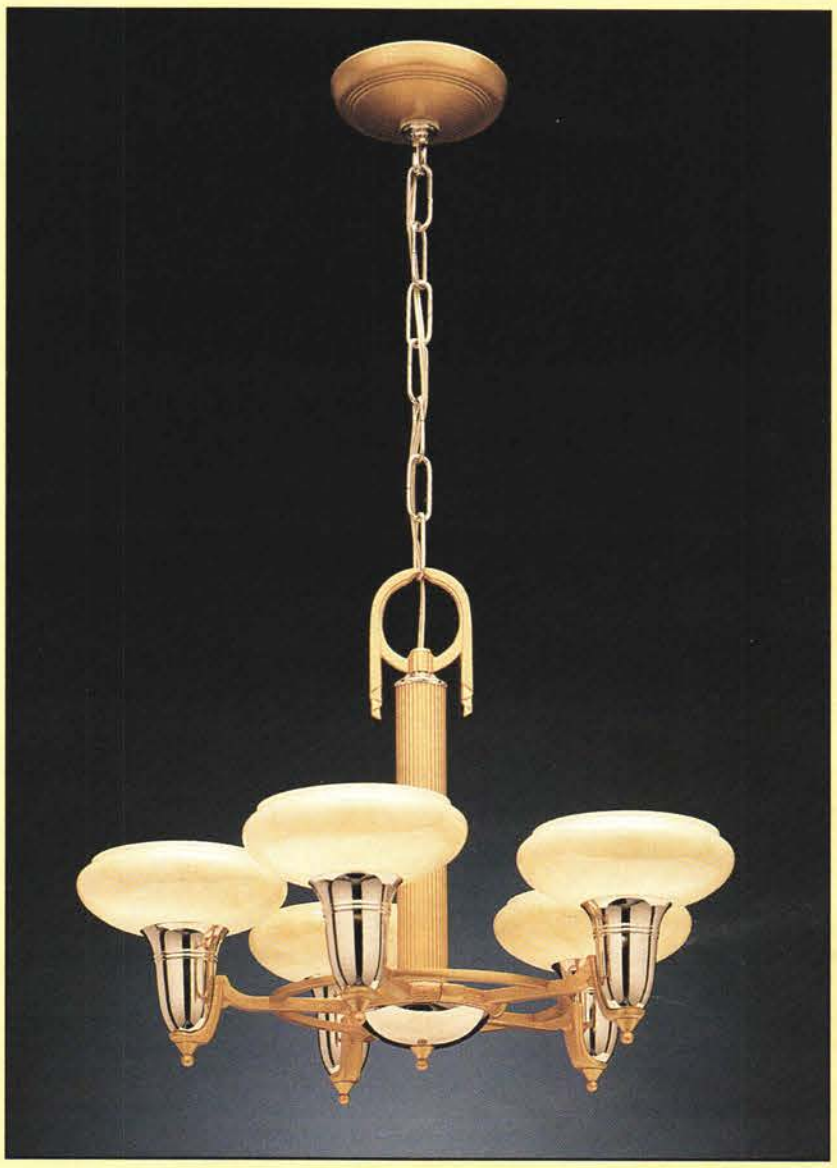

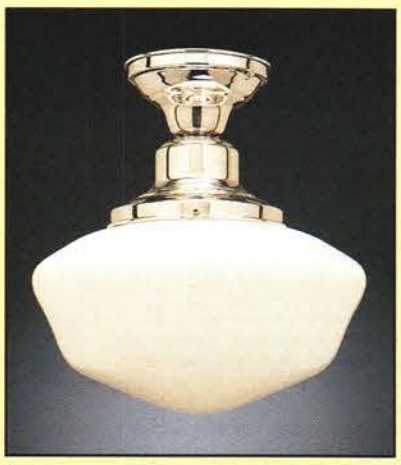

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TRADITIONAL BUILDING's ART DECO *SourceList*

COMPILED BY JUDITH SIEGEL LIEF

COMPANY	SPECIALTY	Literature	Interior Lighting	Exterior Lighting	Neon/Signage	Ceramic Tile	Hardware	Furniture	Wallcoverings	Metalwork	Art Glass	Wall Paintings	Terrazzo	Structural Glass	Diner Furnishings	Diner Consultation	Other
Classic Illumination, Inc. 2743 Ninth St., Dept. TB Berkeley, CA 94710 510-849-1842; Fax: 510-849-2328	Custom manufacturer of handcrafted solid-brass period lighting, produced to client specs. Wide choice of heights, shades, finishes. Art Deco wall sconces and overhead fixtures.	Free	✔														
Coe Studios, Inc. 1214 Fourth St., Dept. TB Berkeley, CA 94710 510-527-2950; Fax: 510-527-0103	This metalsmith/mountaineer/naturalist does forging, hammering, repousse, and lost-wax castings in solid bronze and iron, with inspiration for his designs drawn from nature. Any style or period available.	Free Write in No. 83	✔	✔			✔	✔		✔							
Conant Custom Brass, Inc. 270 Pine St., Dept. TB Burlington, VT 05401 800-832-4482; Fax: 802-864-5914	Custom manufacturing, production, design, restoration, and repair of lighting in all metals to builders'/architects' specs. Also, traditional line of pendants, chandeliers, and sconces; many finishes and styles.	Free Write in No. 62	✔														
Custom Glass Etchers 5100 O'Hara Court, Dept. TB Fredericksburg, VA 22407 540-786-6099; Fax: Same as phone	Designer and supplier of etched, carved, and frosted glass and mirror in any style. Custom-designed etched panels for doors, windows, transoms, fireplace screens, partitions, booth dividers, and bar mirrors. Residential and commercial; tempered and insulated units.	Free Write in No. 970									✔						
DePaoli Mosaic Co. 126 Magazine St., Dept. TB Boston, MA 02119 617-445-2381; Fax: 617-442-5618	All types of terrazzo and seamless composition flooring; installations throughout New England; and Art Deco terrazzo-design assistance, restoration, recommendations, budget prices, and samples.	Free Write in No. 232											✔				
Designs for Leisure 41 Kensico Dr., Dept. TB Mount Kisco, NY 10549 914-241-4500; Fax: 914-241-8634	Card tables, game tables, expandable tables, bar stools, pool tables, and custom cabinets, many of which are designed in an Art Deco style.	Free						✔									Game tables, bar stools
Designs in Tile P.O. Box 358, Dept. TB Mt. Shasta, CA 96067 916-926-2629; Fax: Same as Phone	Custom ceramic tiles and murals, Art Deco kitchens and baths, wainscot tile, mosaic floors, pools, fountains, Art Deco fireplaces, glass mosaic, and more.	Free Write in No. 25				✔											
Etchings 45-F Mitchell Blvd., Dept. TB San Rafael, CA 94903 415-492-8986; Fax: 415-492-9321	Designs and sand-carves decorative glass and mirrors in Art Deco patterns for doors, windows, mirrors, room dividers, screens, and signs; residential and commercial.	Free	✔		✔						✔				✔		
EverGreene Painting Studios 635 W. 23rd St., 4th Fl., Dept. TB New York, NY 10011 212-727-9500; Fax: 212-727-9538	Painting studio with extensive experience in paint restoration, as well as design and execution of original projects; paint research, analysis, and documentation; scagliola, sgraffito, ornamental plasterwork; conservation.	Free Write in No. 246										✔					Paint restoration
Fine Architectural Metalsmiths P.O. Box 30, Dept. TB Chester, NY 10918 914-651-7550; Fax: 914-651-7857	Full metalworking capabilities; meticulous hand- and hot-forge work; restoration; new designs; authentic Art Deco lines, colors, and techniques. Stainless, copper, brass, iron.	Free Write in No. 264								✔							
Gaytee Stained Glass, Inc. 2744 Lyndale Ave. S., Dept. TB Minneapolis, MN 55408 612-872-4550; Fax: 612-872-4551	Company offers a spectrum of services and techniques, including glass painting, sandblasting, faceting, and custom design; traditional and contemporary.	Free Write in No. 508									✔						
Goddard Mfg. P.O. Box 502, Dept. TB Logan, KS 67646 913-689-4341; Fax: No fax	Custom-built spiral stairs in wood or steel; circular stairs in wood. Also, balusters, newels, and handrails. Steel stairs for interior or exterior.	Free Write in No. 478															Spiral stairs
Grajales Architectural Ceramics 667 Carroll St., Dept. TB Brooklyn, NY 11215 718-857-0729; Fax: Same as phone	Custom relief interior and exterior handcrafted ceramic tiles. Specializes in large formats, relief murals, mosaics. Custom fabrication for architects, artists, and designers.	Free				✔											
Great Gatsby's 5070 Peachtree Ind. Blvd., Dept. TB Atlanta, GA 30341 800-428-7297; Fax: 770-457-7250	Antique gallery and auction house with an ever-changing inventory of antique furnishings, chandeliers, stained glass, entryways, fountains, gazebos, mantels, fine art, and statuary.	Free Write in No. 327	✔	✔				✔			✔						Architect-ural antiques
Harrington & King Perforating Co. 5655 W. Fillmore St., Dept. TB Chicago, IL 60644 800-621-3869; Fax: 312-261-1686	Manufactures decorative perforated steel, bronze, and aluminum in custom, as well as hundreds of standard designs for architectural applications; air flow screens, grilles, radiator covers, registers, and lighting diffusers.	Free								✔							Perforated steel, grilles, radiator covers
Heritage Glass, Inc. 1081 E. 2200 North, Dept. TB Logan, UT 84341 801-752-5501; Fax: 801-752-3323	Manufacturer of specialty glass products, including dalle de verre and glass aggregate for terrazzo floors. Blues, reds, and greens, tan, grey, or rose.	Free Write in No. 360											✔				
Historical Arts & Casting Inc. 5580 W. Bagley Pk. Rd., Dept. TB West Jordan, UT 84088 800-225-1414; Fax: 801-280-2493	Expertly crafted lighting and metal ornament, including cornices, railings, store fronts, fences, newels, planters, finials, street furnishings, and fountains, in bronze, aluminum, or cast iron. Restoration and custom work.	Free Write in No. 121	✔	✔			✔			✔							Planters
Hunt Stained Glass Studios 1756 W. Carson St., Dept. TB Pittsburgh, PA 15219 412-391-1796; Fax: 412-391-1560	Liturgical, commercial, residential custom designed beveled-glass windows, door lites, side lites, transoms, skylights, medallions, coats of arms. Repair/restoration.	Free Write in No. 330									✔						
Imperial Fires Pacific Des. Ctr.; 8687 Melrose Ave. #M29 West Hollywood, CA 90069 310-358-0474; Fax: No fax	Offers wide range of handcrafted Victorian-styled gas and electric fires. Products are maintenance free, lightweight, and portable. Fireplace inserts.	Free Write in No. 635															Electric fires
Int'l Fine Art Conservation Studios P.O. Box 180098, Dept. TB Atlanta, GA 30318 404-794-6142; Fax: 404-794-6229	Research, historic and scientific analysis, documentation of original finishes, and conservation of murals and easel paintings. Decorative painting, faux finishes, ornamental plaster, murals, paintings, and Art Deco interiors.	Free							✔			✔			✔		Murals, decorative finishes
Judi's Lampshades 1495 E. 22nd St., Dept. TB Brooklyn, NY 11201 718-377-7321; Fax: 718-951-6129	Handsewn custom-designed Victorian and Art Deco lampshades; restores and recovers any shades and lamps; Turn-of-the-Century lamp frame designs.	Free	✔														Period lampshades
Kayne & Son Custom Hardware 100 Daniel Ridge Rd., Dept. TB Candler, NC 28715 704-667-8868; Fax: 704-665-8303	Custom hand forging of ferrous and non-ferrous metals; sand casting of brass and bronze. Curved and straight strap hinges, Norfolk & Suffolk thumb latches and locks, drop & surface bolts; special fasteners and hasps.	Send $5 for catalog					✔		✔		✔						
Lampshades of Romance P.O. Box 2, Dept. TB Medford, OR 97501 800-928-7613; Fax: 541-776-5944	Ornate Victorian fringe fabric lampshades designed, manufactured, and restored. New and vintage fringe, fabric, and trim in stock; wide choice of colors.	Free	✔														Period lampshades
Lavinia Interiors 170 Boston Post Rd., Dept. TB Madison, CT 06443 203-245-0885; Fax: Same as phone	Gilt-embossed leather table and desktops for new and antique furniture. Many colors and embossings to choose from, including Art Deco. All custom fabrication.	Free Write in No. 408						✔	✔								Custom furniture
Leo Custom Hardware 7532 Columbus Ave. So., Dept. TB Richfield, MN 55423 612-861-1473; Fax: 612-866-7546	Custom castings (investment and sand cast) for grilles, screens, door hardware, finials, knockers, and other hardware and interior metalwork. Has existing tools, molds, and designs on hand, or will custom-produce.	Free Write in No. 584					✔			✔							Grilles, screens, finials
Liz's Antique Hardware 453 S. La Brea, Dept. TB Los Angeles, CA 90036 213-939-4403; Fax: 213-939-4387	Original hardware, c.1850-1970, for doors, windows, furniture, curtains, bath accessories, and lighting; museum-quality never-used vintage and contemporary hardware.	Send $5 for color catalog Write in No. 959	✔	✔			✔	✔		✔							Antique hardware, Deco sconces & fixtures

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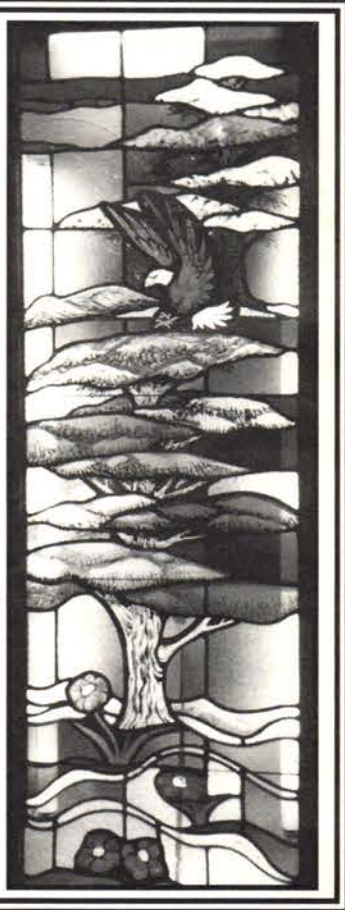

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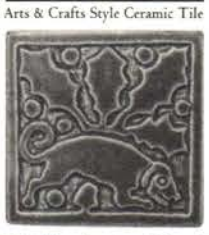

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WRITE IN NO. 360

TRADITIONAL BUILDING's ART DECO *SourceList*

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COMPANY	SPECIALTY	Literature	Interior Lighting	Exterior Lighting	Neon/Signage	Ceramic Tile	Hardware	Furniture	Wallcoverings	Metalwork	Art Glass	Wall Paintings	Terrazzo	Structural Glass	Diner Furnishings	Diner Consultation	Other
Maguire Iron Corp. 215 22nd St., Dept. TB Richmond, CA 94801 510-234-7569; Fax: 510-232-7519	Door and window hardware, push plates, kick plates, hooks, etc., in wrought iron, pewter, brass, bronze, and much more. Custom fabrication.	Free Write in No. 760	✔	✔			✔										
McIntyre Tile 55 W. Grant St., Dept. TB Healdsburg, CA 95448 707-433-8866; Fax: 707-433-0548	Full custom capabilities for ceramic tiles: Murals, cut tile, mosaics; over 200 colors. High-fired stoneware or porcelain is frostproof and will not crack.	Free				✔											Porcelain basins & murals
McNeil, Leone Box 552, Dept. TB Mendocino, CA 95460 707-937-5227; No fax	Stained-glass commissions and gallery work includes religious, figurative, and non-figurative pieces. Member SGAA and AGSA.	Free Write in No. 948									✔						
Moderne Gallery 111 N. Third St., Dept. TB Philadelphia, PA 19106 215-923-8536; Fax: Same as phone	Original French and American Art Deco furniture, lighting, and accessories filling a 12,000-sq.ft. showroom.	Free	✔					✔		✔	✔						
Monarch Radiator Enclosures 2744 Arkansas Dr., Dept. TB Brooklyn, NY 11234 201-796-4117; Fax: 201-796-7717	Radiator enclosures in 20 styles; stock and custom sizes; many color options, including wood grain. Boardrooms, offices, churches, institutions, and homes. Baked enamel finish; grille front.	Free Write in No. 606								✔							Radiator covers
Motawi Tileworks 33 N. Staebler, Ste. 2, Dept. TB Ann Arbor, MI 48103 313-213-0017; Fax: 313-213-2569	Arts & Crafts tile studio produces Art Nouveau, medieval, and Celtic motifs in ceramic relief tile, for fireplaces, kitchens, baths, and floors; custom fireplace designs a specialty; can scale to fit your dimensions.	Free Write in No. 589				✔											
New York Gaslighting Co. 145 Bowery, Dept. TB New York, NY 10002 212-226-2840; Fax: 212-226-7377	Solid brass and bronze lighting for indoor and outdoor applications.	Free Write in No. 538	✔	✔													
Oxford Chime Works 207 E. Main St., Dept. TB Rogersville, TN 37857 423-272-0855; Fax: No fax	Handcrafted doorbells, door chimes, and annunciators to complement most architectural periods. Custom doorbell melodies and custom cabinet design a specialty.	Free					✔										
Pierre Counot-Blandin Co. 200 Lexington Ave., Dept. TB New York, NY 10016 212-679-3106; Fax: 212-679-3217	Authentic reproduction French Art Deco furniture and casegoods in beech, cherry, and madrona with accents of rare woods.	Free						✔									
Pittsburgh Corning Corp. 800 Presque Isle Dr., Dept. TB Pittsburgh, PA 15239 800-992-5769; Fax: 412-733-4815	Glass block and end block.	Free												✔			Glass block
Red Baron's Antiques 6450 Roswell Rd., Dept. TB Atlanta, GA 30328 404-252-3770; Fax: 404-257-0268	18th-, 19th- & 20th-c. architectural antiques and decorative arts: Carved marble, wood, and stone mantels; also, chandeliers, furniture, stained glass, entrance doors, saloon decor, garden statuary, fountains, etc.	Free Write in No. 989	✔	✔			✔	✔		✔	✔						Architectural antiques
Reflection Studios 1418 62nd St., Dept. TB Emeryville, CA 94608 510-652-4884; Fax: 510-658-6138	Original pieces of stained glass (for over 25 years) and museum-quality restoration. A licensed glazing contractor; many large commercial & government projects.	Free Write in No. 793									✔						
Rejuvenation Lamp & Fixture Co. 1100 S.E. Grand Ave., Dept. TB Portland, OR 97214 503-231-1900; Fax: 503-230-0537	Victorian, Arts & Crafts, Colonial Revival, Art Deco, and Neo-Classical solid-brass lighting. Many gas-style fixtures and combination gas-electric styles; custom capabilities; exterior sconces and porch lighting.	Free Write in No. 763	✔														
Rohlf's Studio, Inc. 783 S. Third Ave., Dept. TB Mount Vernon, NY 10550 800-969-4106; Fax: 914-699-7091	Victorian heraldry and stained glass for over 75 years, specialists in stained-glass window design, traditional to contemporary; can provide design assistance. Also conservation & restoration services.	Free Write in No. 624									✔						
St. Louis Antique Lighting Co. 801 N. Skinker Blvd., Dept. TB Saint Louis, MO 63130 314-863-1414; Fax: 314-863-6702	Custom architectural lighting in all styles: Incandescent, compact fluorescent, H.I.D Restoration, reproduction and retrofitting of historic fixtures for commercial interiors.	Free Write in No. 619	✔	✔													
Stain in the Glass 3180 N.E. Maple Ave., Dept. TB Jensen Beach, FL 34957 800-293-8920; Fax: 561-225-6167	Stained and deep-carved etched glass; Erte and Frank Lloyd Wright interpretations; Victorian; religious panels; doors, windows, cabinets, screens, and room dividers.	Free									✔			✔			Glass etching & carving
Sternberg Vintage Lighting 7401 Oak Park Ave., Dept. TB Niles, IL 60714 847-588-3400; Fax: 847-588-3440	Vintage style (including Art Deco) cast-aluminum fixtures (with energy-efficient HID lamping) and ornamental poles for streets, parks, and plazas. Over 55 ornamental poles.	Free Write in No. 674		✔													
Strom Plumbing by Sign of the Crab 3756 Omec Circle, Dept. TB Rancho Cordova, CA 95742 916-638-2722; Fax: 916-638-2725	Large, diverse catalog of high-quality solid brass plumbing supplies, fittings, faucets, footed tubs, and bath & shower accessories and related brassware.	Free					✔										Plumbing fixtures
Studio Arts & Glass, Inc. 1132 30th St., NW, Dept. TB Canton, OH 44709 800-343-6498; Fax: 330-492-7751	Custom design and fabrication of leaded stained-glass ceilings, skylights, windows, and lighting fixtures. Also, etched and beveled glass in all styles and periods.	Free									✔						
Sun Valley Lighting 7900 Clybourn Ave., Dept. TB Sun Valley, CA 91352 818-767-3031; Fax: 818-767-4631	Manufacturers of decorative and period cast-aluminum lighting; in-house design facility and foundry.	Free Write in No. 526		✔													
Texas Metal Industries, Inc. P.O. Box 154, Dept. TB Crandall, TX 75114 800-222-6033; Fax: 800-472-3807	Ornamental aluminum castings: Outdoor furniture and lighting, gate and fence components, mailboxes, hardware, finials, and balustrades. Also, cast-aluminum fountains, lampposts, and urns.	Free Write in No. 943		✔				✔		✔							
Union Metal Corp. 1432 Maple Ave., NE, Dept. TB Canton, OH 44705 330-456-7653; Fax: 330-456-0196	This company provided over 4,000 American towns and cities with their first electric street lights from 1906-1930. Also, bollards, flag poles, and more.	Free		✔													
Urban Archaeology 285 Lafayette St., Dept. TB New York, NY 10012 212-431-6969; Fax: 212-941-1918	Architectural antiques and one-of-a-kind lighting fixtures from Victorian-1940's; reproduction lighting fixtures; and antique and reproduction plumbing fixtures, including clawfoot tubs, faucets, and showers.	Free Write in No. 299	✔	✔													Bathroom fixtures
Victorian Collectibles 845 E. Glenbrook Rd., Dept. TB Milwaukee, WI 53217 414-352-6971; Fax: 414-352-7290	Reproduction Victorian wallpapers, c.1850-1915. Period colors; frieze, fill, border, dado; multi-part decorative ceilings; can reproduce from your documents.	Free Write in No. 525							✔								
Vulcan Supply Corp. P.O. Box 100, Dept. TB Westford, VT 05494 802-878-4103; Fax: Same as phone	Replication of historic architectural sheetmetal ornamentation; custom and stock finials, weathervanes, cornice, vented ridge cresting, leader boxes, cupolas, roof vents, more; all periods and styles.	Free Write in No. 721	✔	✔						✔							
Ziggurat Architectural Ornaments 1702 N. Milwaukee Ave., Dept. TB Chicago, IL 60647 312-227-6290; Fax: 312-227-6289	Architectural antiques: Vintage mantels, tile inserts, firebacks, grates, irons, potbelly stoves, vintage garden ornament; Art Deco fountain, interior lighting, stained and beveled glass, ironwork, terra cotta, and more.	Free Write in No. 782	✔							✔	✔	✔					Art Deco terra cotta, plaques

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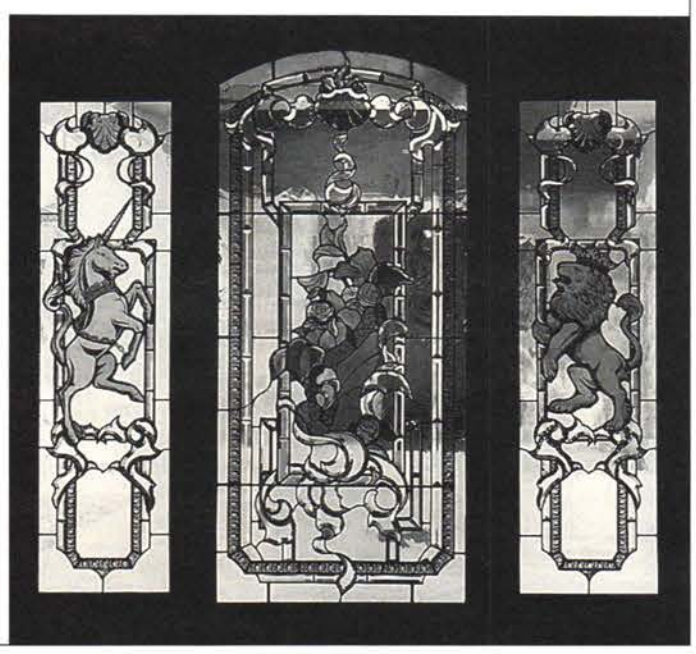

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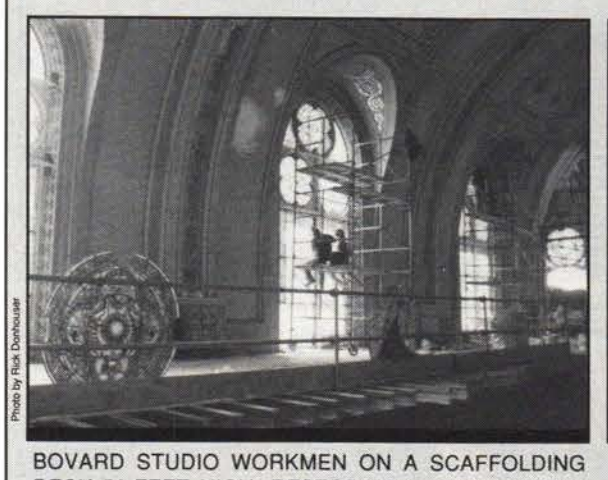

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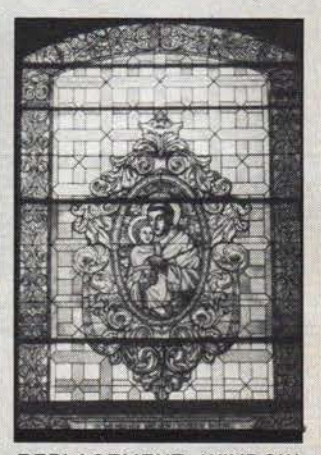

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WRITE IN NO. 769

ART DECO PORTFOLIO

For more information on these companies, consult the SourceList on pp. 52-58.

This carved glass door inset uses classic Art Deco lines and is from ETCHINGS.

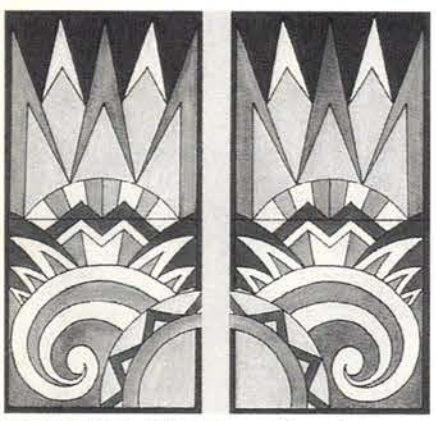
EVERGREENE PAINTING STUDIOS, INC., painted this temporary barricade at 640 Fifth Ave. in New York City. The Art Deco mural "helped dispel the stigma of construction" *and* provided publicity for the project. *Write in No. 246*

DEPAOLI MOSAIC CO. was the terrazzo contractor for this Art Deco lobby, redesigned by Kohn Pederson Fox in New York City. The floor design included three colors of terrazzo and two colors of marble insets. *Write in No. 232*

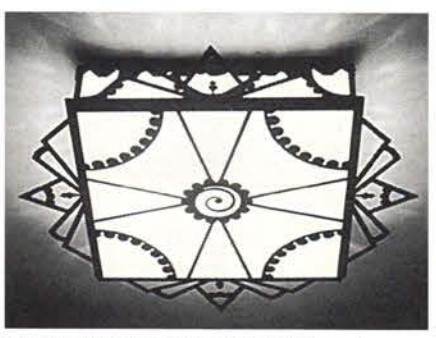
JOHN CANNING & CO. created this wall mural that depicts an evening on board an ocean liner for a showhouse exhibit in Madison, Conn. *Write in No. 510*

BOVARD STUDIOS created this arched glass panel, B-50, that features bevel clusters in the center and lower corners and is embellished with faceted "jewels." This panel is clear glass, but colored panels can also be specified. *Write in No. 769*

For Art Deco interiors, CLASSIC ILLUMINATION offers the Model 1940-1 stem fixture and 1942-1 wall sconce.

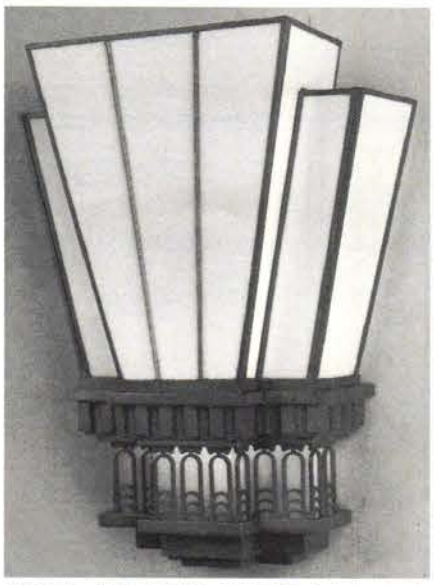


DESIGNS IN TILE has a line of Art Deco tile, all of which are individually hand painted, glazed, and fired. These two patterns (AD-1L & AD-1R), with coordinating borders, are glazed in greys, whites, and red. *Write in No. 25*



CONANT CUSTOM BRASS custom designed this Art Deco style flush-mount ceiling fixture for the Flynn Theater, Burlington, Vt. The lacy decoration is applied aluminum, which extends beyond the square structural center. *Write in No. 62*

MODERNE GALLERY, in Philadelphia, features some of the most elegant furnishings of the Art Deco era, like this walnut armchair with hand-carved detail and burgundy velour upholstery, c.1930.



ALGER INTERNATIONAL fabricated this sconce for a department store in Hong Kong, based on a Chinese designer's drawings. The fixture is antique-bronze steel with opal glass, the bottom fretwork is laser cut, and it measures 28-in. H. x 16-in W.

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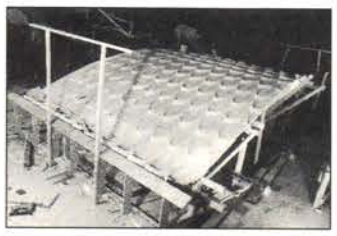

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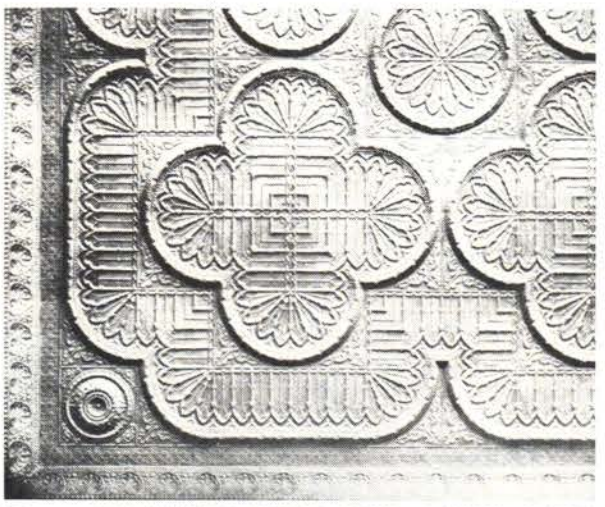

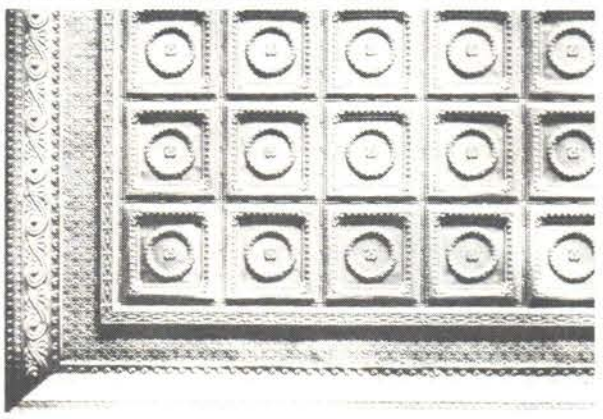

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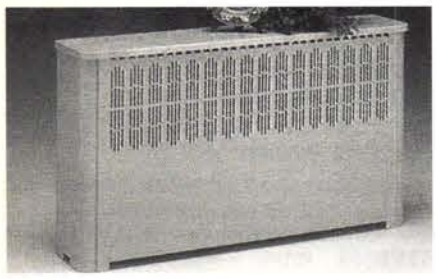
ART DECO PORTFOLIO

For more information on these companies, consult the SourceList on pp. 52-58.



MONARCH RADIATOR COVERS offers the "Classic;" vertical perforations make it suitable for a 1930s or 1940s interior. *Write in No. 606*

ARCHITECTURAL PRODUCTS BY OUTWATER sells Hy-Lite Block windows, configured in 6- or 8-in. blocks available in crystal clear, peach, rose, or blue and in either a wave or cross-rib pattern. *Write in No. 493*

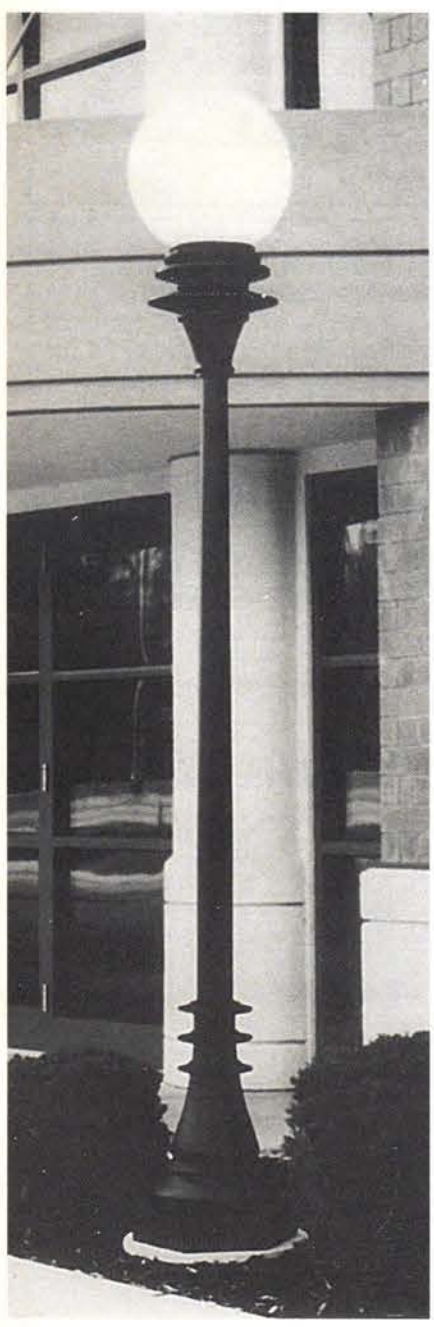
One of the many Art Deco furnishings in the ANTIQUARIAN TRADERS auction catalog is this Art Deco iron center table with a black and gray marble top, c.1925, and designed in the style of Edgar Brandt. Measurements are 74-in. L., 37-in. W., and 30-in. H. *Write in No. 95*

CHISLER MANUFACTURING CO. carries obsolete hardware and art metal, like this Art Deco doorbell and switch cover with highlighted patina.

KAYNE & SON hand forged this custom designed fireplace rack. Scalloped prongs grace the front; back arms end in curlicues.

Part of the Mt. Carmel Church, Middletown, NY, restoration was its conversion to a community arts center that required the installation of a barrier-free access ramp. FINE ARCHITECTURAL METALSMITHS got the commission and fabricated this Art Deco-inspired design — complete with a repeat pattern of hoops, circles, and balls that work with the concrete curbing to hold the handrail at a proper height. *Write in No. 264*

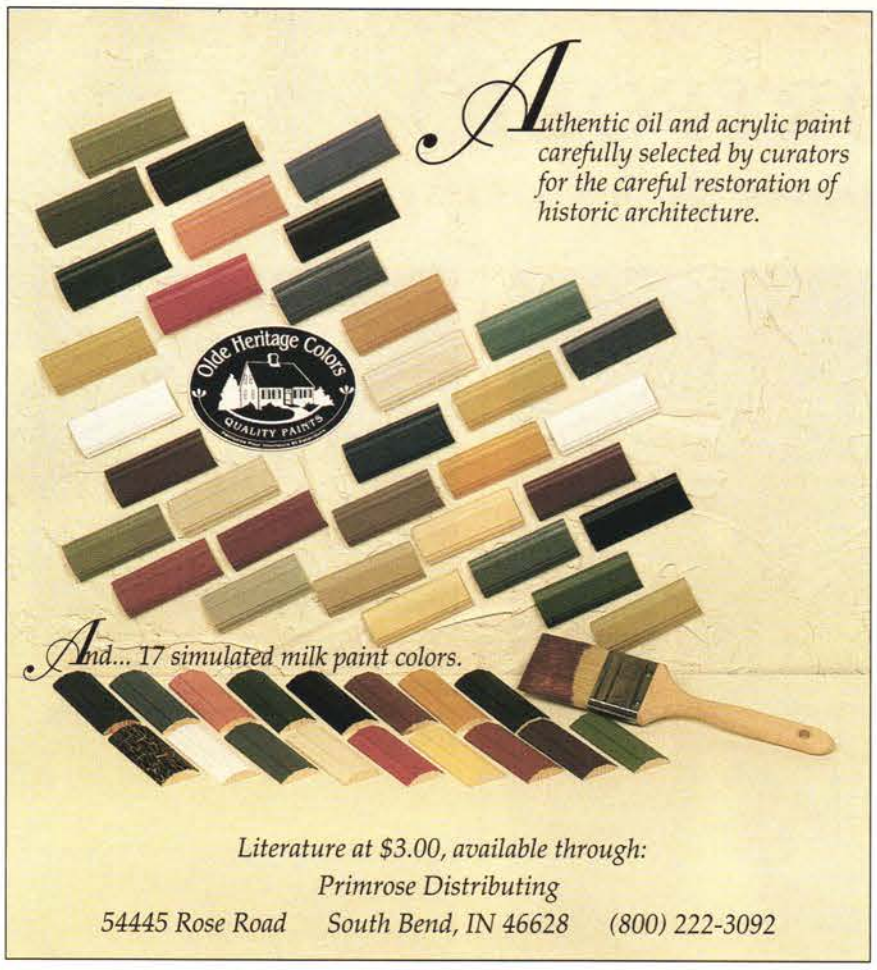
REJUVENATION LAMP & FIXTURE makes this aluminum and brass wall sconce, called "Lafayette." The piece holding the shade is polished nickel, the base is "rich gilt" (gold), and the shade is model# 043V. *Write in No. 763*



This Art Deco-style solid base, pole, fitter, and globe (that repeats the base detail) are from STERNBERG VINTAGE LIGHTING. *Write in No. 674*

SUN VALLEY LIGHTING's "Cityscapes of America" collection of large city and small town street lighting is appropriate for almost any vintage streetscape. Shown is the 2900 base, 1050 tapered fluted shaft, and LCW luminaire. *Write in No. 526*

HISTORICAL ARTS & CASTING restored and/or reproduced a wide array of Turn-of-the-Century cast-bronze lamps and pendants for the Los Angeles Public Library. *Write in No. 121*



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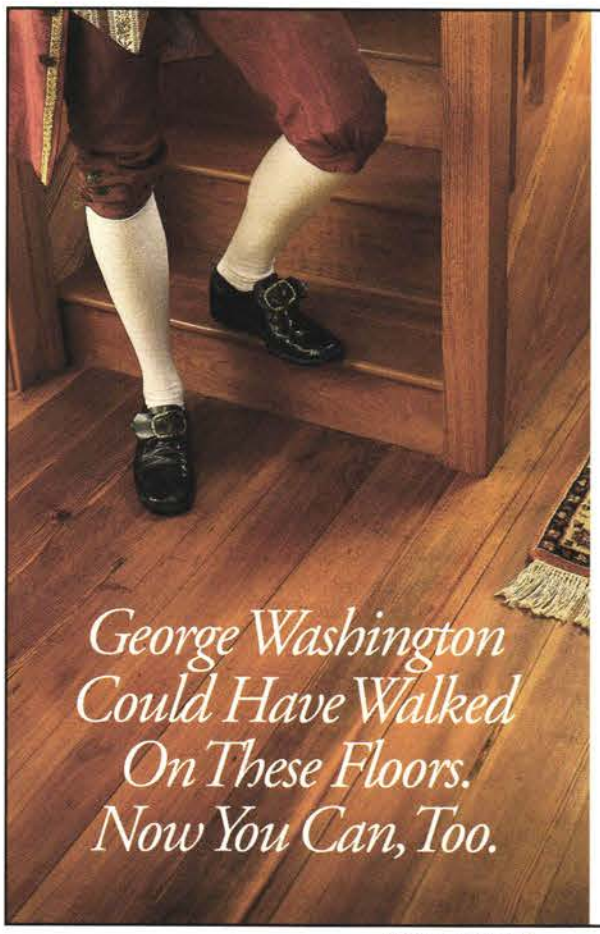

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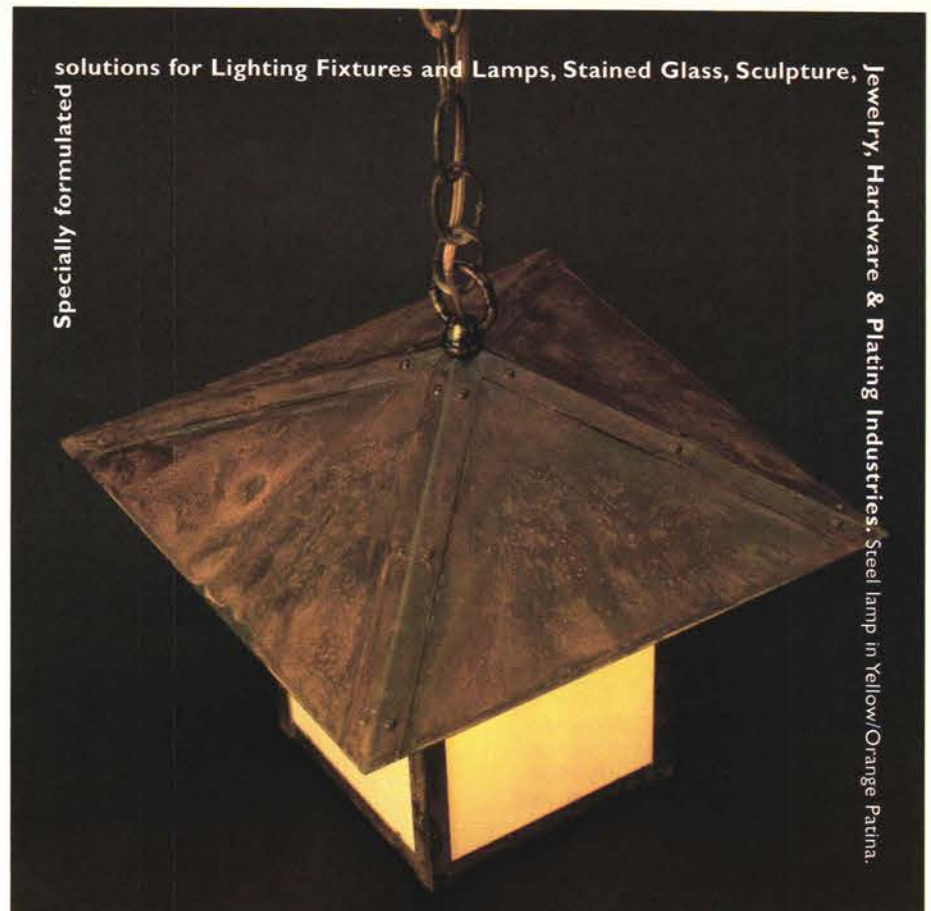

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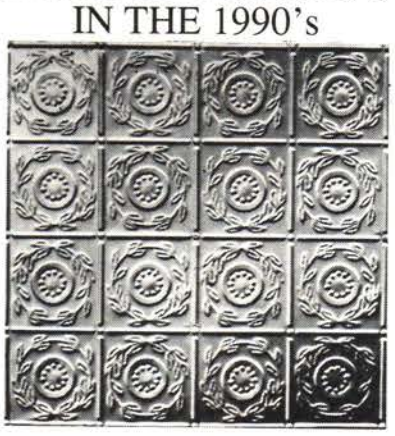

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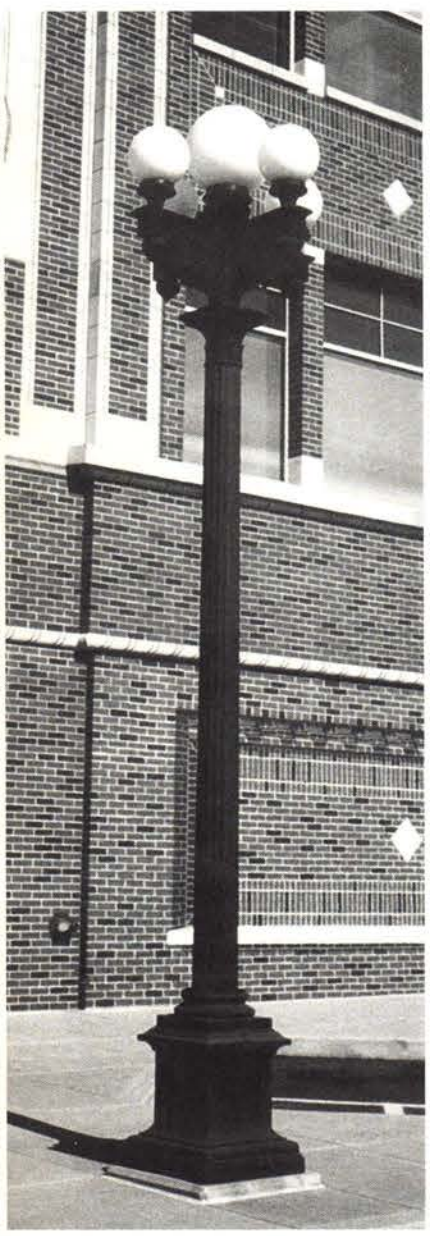
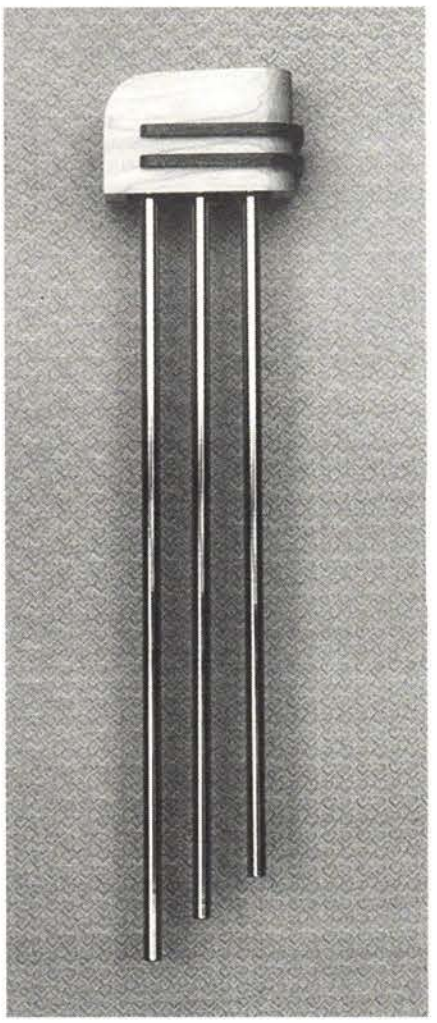
ART DECO PORTFOLIO

For more information on these companies, consult the SourceList on pp. 52-58.

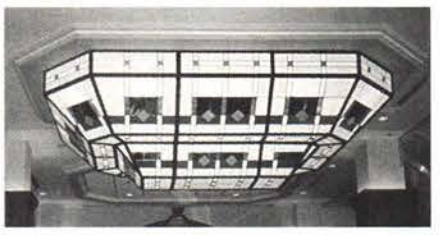
ROHLF'S STAINED GLASS created this Art Deco panel for the reception area of an office. The primarily clear glass is accented with reds, blues, and yellows. *Write in No. 624*



A "Five E-Style" luminaire capping a 16-flute shaft is one of UNION METAL CORP.'s stock fixtures. The company pioneered the development of ornamental streetlighting, supplying over 4,000 American towns and cities with their first electric lighting standards from 1906-1930.

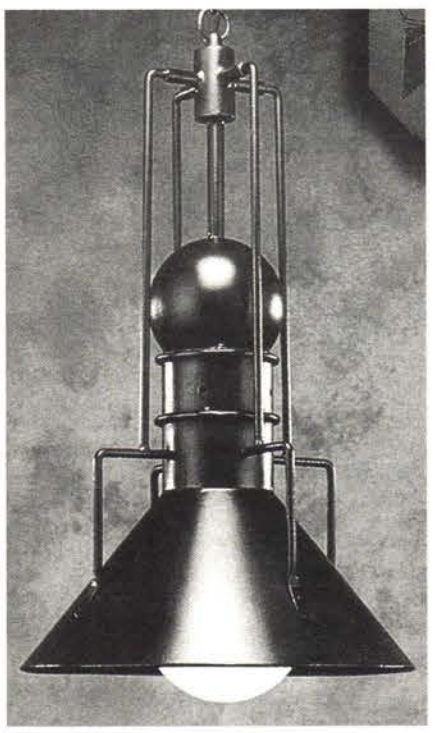


OXFORD CHIME WORKS' "Pan Pacific" doorbell was custom-built in solid maple with zebra wood accents for a Streamline style home in California's Hollywood Hills. The doorbell features three chimes with a polished nickel finish and plays a melody reminiscent of the 1930s.



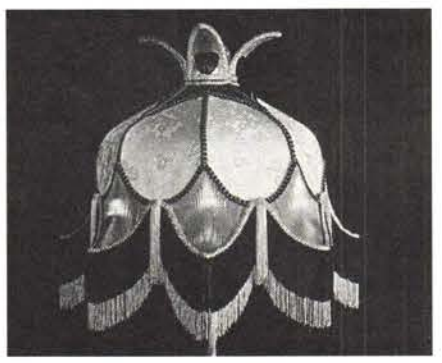
ART GLASS OF THE SOUTH created this stained-glass chandelier for the Adams Mark Hotel, in Mobile, Ala. *Write in No. 251*

The ceiling fixture from BRASS REPRODUCTIONS features solid-brass tubing and 1/4-in. thick opal shade. *Write in No. 622*



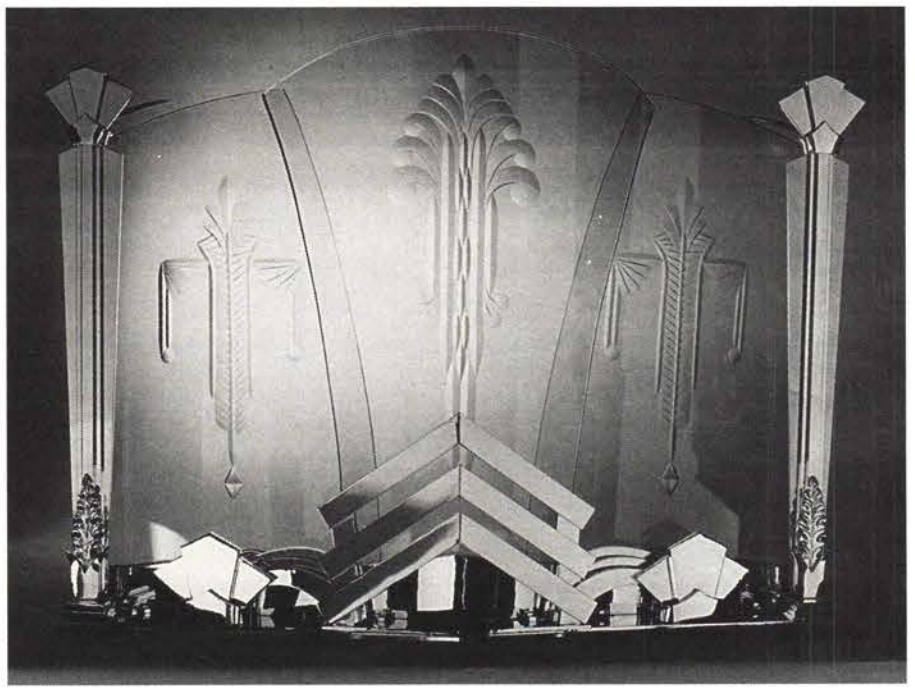
ARTE DE MEXICO's #HF31D pendant fixture is 15-in. dia., 25-in. high., and is fabricated in wrought iron.

MOTAWI TILEWORKS collection of handcrafted tile includes these 3x3x5/16-in. tiles from their "Celtic" collection. Clockwise from upper left: 3307, 3306, 3301, and 4401. *Write in No. 589*



This shade is typical of the handwork done by LAMPSHADES OF ROMANCE: An unlined shade with complex curves and trimmed struts, inside and out.

This stepped-down glass-block partition is from PITTSBURGH CORNING and is finished with smoothly rounded end-block units.



This Art Deco fireplace screen is hand-forged in silver-plated solid bronze that is then highly polished and lacquered. The glass is in three separate overlapping pieces — each hand cut, hand bevelled, carved, and slumped. The screen is 36-in. H., 48-in. W., and 9-in. D. and was crafted by COE STUDIOS. *Write in No. 83*

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Photo credits: (left to right) Adobe-style home, Sante Fe, NM:Photography; Contemporary dining room - Robert Brantley Photography

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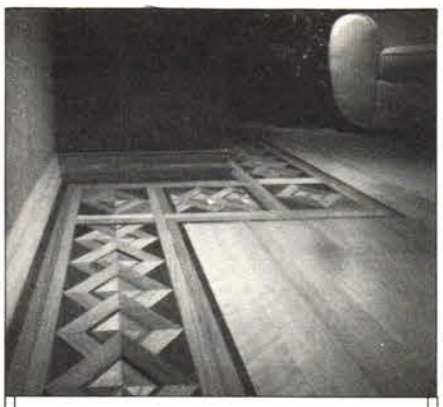

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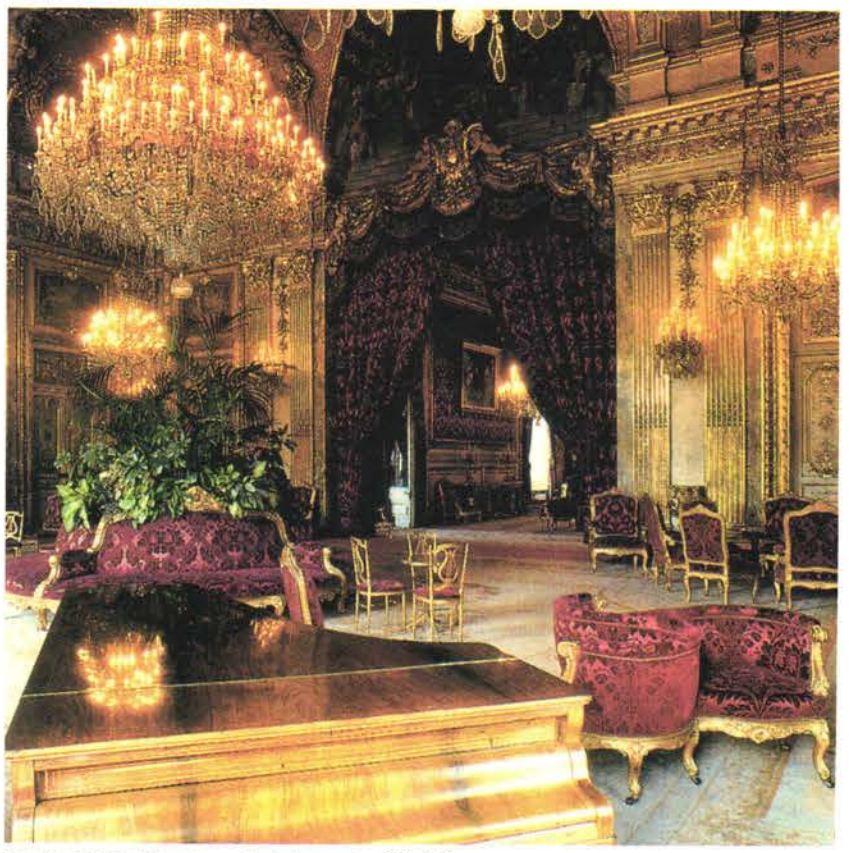

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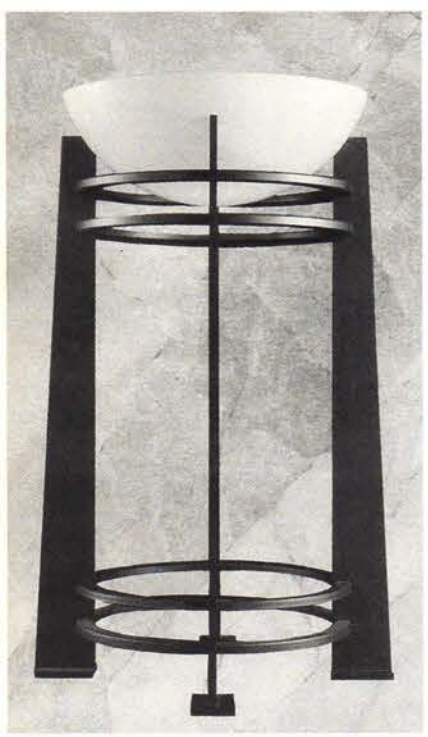
WRITE IN NO. 636

ART DECO PORTFOLIO

For more information on these companies, consult the SourceList on pp. 52-58.

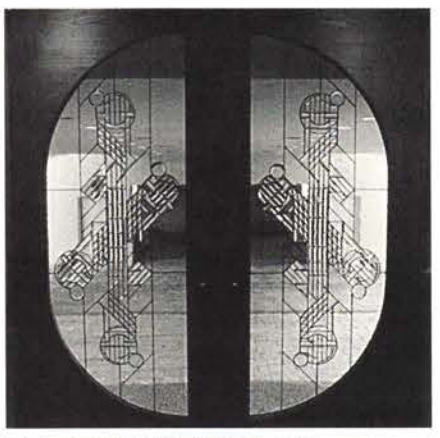
These flamingos, painted on canvas hung in a hotel's overmantel in Lake Geneva, Wis., will be auctioned off by ZIGGURAT ARCHITECTURAL ORNAMENTS. Pinks and greens dominate the palette. *Write in No. 782*



ST. LOUIS ANTIQUE LIGHTING crafted this floor lamp for a Dallas bank lobby. The predominantly marble interior called for a "modern, yet neoclassical" decorative standing lamp. Its sleek legs are 1/2-in. thick aluminum bar stock, with a routed-out channel in one leg for concealing the wire. The acrylic diffuser burns a 150-incandescent lamp centered in bowl. *Write in No. 619*

This mural, on canvas, was created for Bally's Casino, Atlantic City, by DOUGLAS BOUMAN & ASSOCIATES.

CHAENOMELES, INC., fabricated this copper, wall-mounted envelope mailbox, 9-in. H., 14-1/2-in. W., and 4-1/2-in. D. Its bronze handle alludes to Art Deco patterning. *Write in No. 136*



This STAIN IN THE GLASS entryway is a one-of-a-kind design by artist Ken De Angeles. The work, with zig zags reminiscent of Art Deco, incorporates traditional leaded glass and custom beveling.

Instant Access to Product Information for

ART DECO LIGHTING

If your office qualified to receive the 1996 TRADITIONAL BUILDING CATALOG, you'll find pre-filed and indexed product literature there for the following suppliers of Art Deco Lighting:

- Original Cast Lighting
- Rejuvenation Lamp & Fixture Co.
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This hand-forged hardware from BOUVET is identical to hardware crafted by the company's artisans over a hundred years ago in France. *Write in No. 162*

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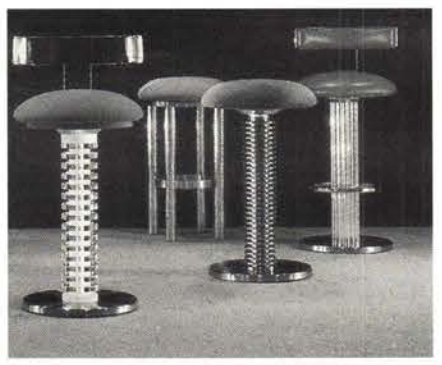

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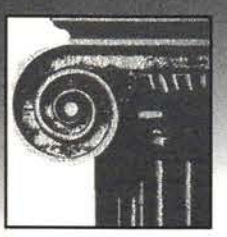

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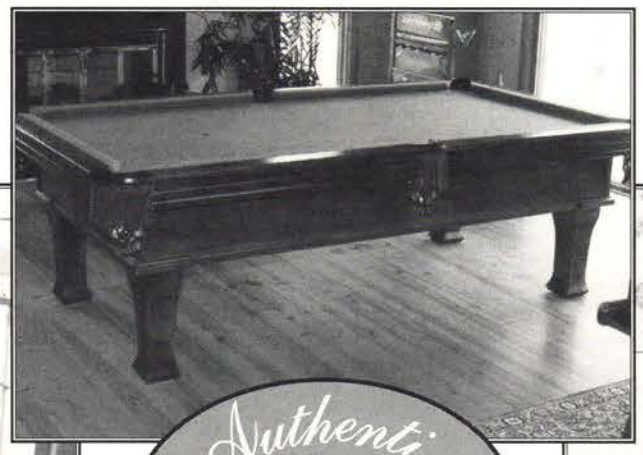

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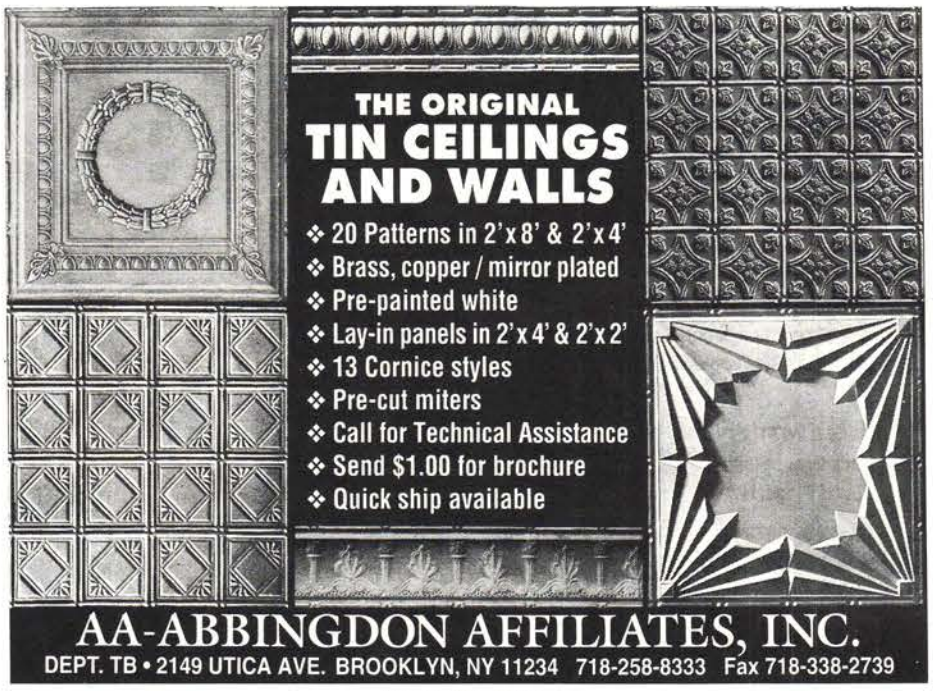

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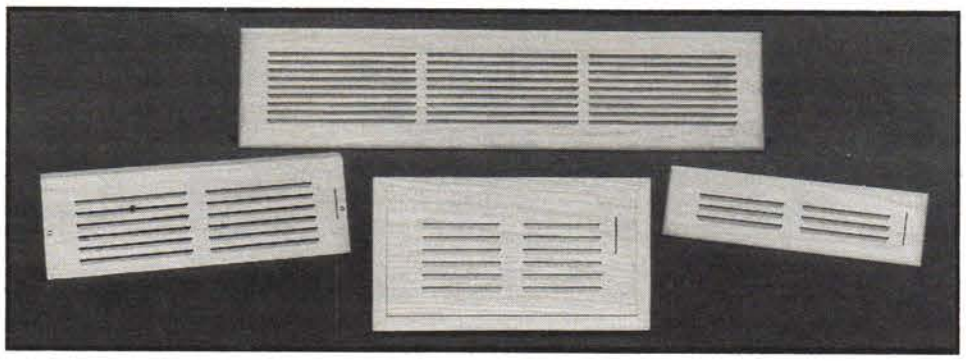

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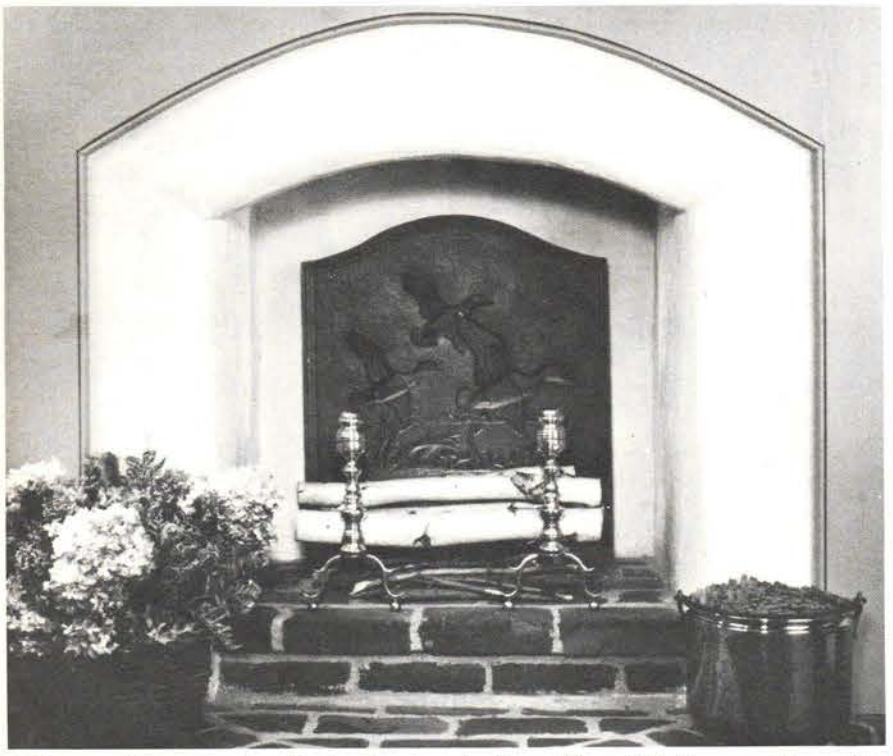

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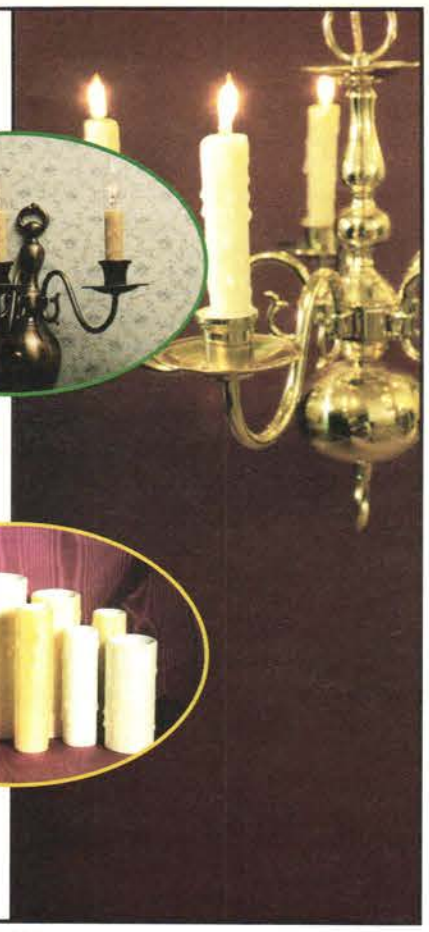

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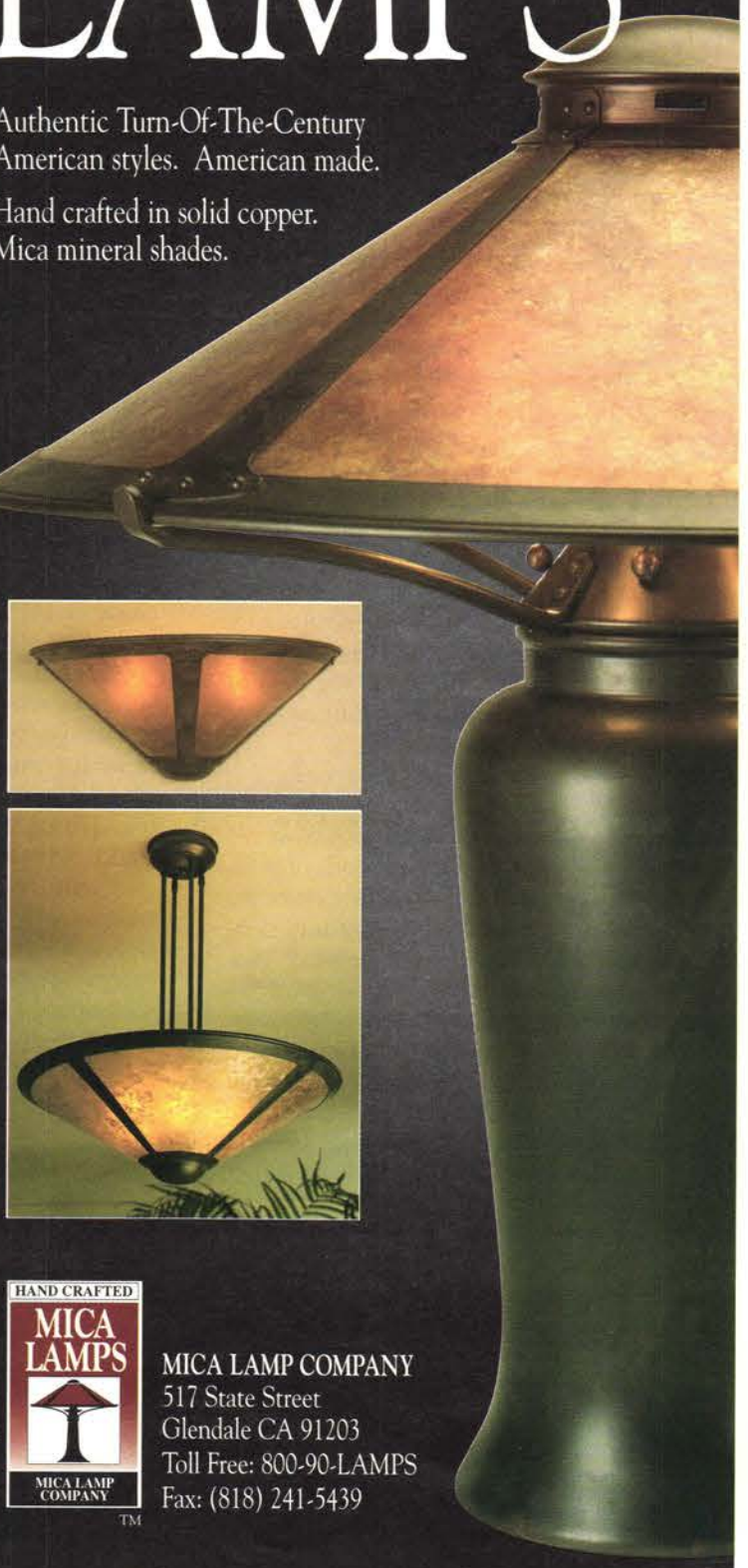

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WRITE IN NO. 587

Landscape Furnishings in the Realm of Gaia

"Context" is a current buzz word . . . and with good reason. There's new appreciation that architecture is more than an isolated creative exercise; true architecture generates harmony between the new construct and its environment, whether that be a streetscape crowded with other buildings, or a flowing natural landscape.

But "context" is hardly a new idea; the classical Greeks were contexturalists. Through siting and form, their architecture was intended to link humankind and its constructions with the earth and the gods. Maintaining harmony with nature and Gaia — the Greek personification of the earth — was central to classical life and ritual.

Gaia and nature were ignored by modernist architects of the 20th century; dogma decreed the primacy of the "bold personal statement." But with the growing understanding of context, there is a parallel awareness of the fragility of the natural sphere; the balance between the built and the unbuilt worlds is getting dangerously out of equilibrium. Clients and designers alike are returning to the traditional and ancient respect for Gaia's realm.

In this, our 4th annual report on Landscape, Streetscape, and Garden Products, you'll find that there's a wide — and growing — range of traditionally styled products. Fortunately, this cornucopia of goods is being matched with a growing understanding of how to use these objects in an intelligent, earth-sensitive manner. After all, Gaia cares! — *CL*

On The Waterfront

According to the Waterfront Center, only six of the 75 largest cities in the U.S. are <u>not</u> located on a significant body of water. Still, waterfronts and watercourses are underutilized resources in many urban settings.

While some areas along the water have long been used for civic and recreational purposes, as with Chicago's waterfront, during the past few decades many more cities have explored less glamorous locations — working fish markets, abandoned factories, even drainage creeks — and found they too can have an appeal. Urban areas that were essentially given a coroner's report **can** have new life.

The redevelopment of waterfronts has practically run hand in hand with the historic preservation movement, which has been a catalyst for its growth. Other factors, say Dick Rigby and Ann Breen in their book, *Waterfronts: Cities Reclaim Their Edge*, include growing environmental awareness and focus on cleaning up our water resources, the abandonment and changes in industrial uses of the waterfront, and assistance programs that have sprung up, both governmental and private. Rigby and Breen are co-founders of the Waterfront Center, a non-profit organization devoted to the development and planning of waterfront communities and resources.

Waterfront Resources

The Waterfront Center is a non-profit organization that holds conferences and workshops, conducts research, and does community consulting. They publish a newsletter called "Waterfront World" and sponsor an awards program every year that honors successful waterfront projects. (Their 14th annual conference will be held Nov. 13 to 16 in Boston, Mass.) They've published books, including "Caution: Working Waterfront," and "Fishing Piers." "Waterfronts: Cities Reclaim Their Edge," (McGraw-Hill, 1993) is a survey of the urban waterfront phenomenon, with 75 case studies of projects around North America. A new book, "The New Waterfront: A Worldwide Urban Success Story," is coming out this fall, published by Thames & Hudson.

Ann Breen says that the most popular waterfront projects now are mixed use and recreational and water/greenway projects. Most locations are complex, joint public-private mixed-use ventures.

In addition, waterfronts have to contend with "floods, hurricanes, tides, and more intergovernmental agencies and permits," than inland developments, says Breen.

The festival marketplace has certainly received a lot of attention by both the media and academia, but there are places that don't necessarily need bells and whistles to draw people, because they simply use their primary resource — the water — as a draw. In fact, according to the Waterfront Center, while there are thousands of waterfront redevelopments there are only about fifty festival marketplaces located on bodies of water here.

The Waterfront Center, 1536 44th St. N.W.; Washington, D.C. 20007; Phone (202)337-0356; Fax (202)625-1654.

In Our Own Backyard

The Editors recently discovered Pier 41, a small upstart development, in nearby Red Hook, a Brooklyn, N.Y., neighborhood with few opportunities for civic and cultural concerns. Red Hook is served by just two public buses, with no banks and few of the restaurants, pharmacies, or other services found in most communities, and a reputation like that of the South Bronx.

Pier 41, one of several Civil War-era storage warehouses that housed grain coming down the Erie Canal, was purchased in 1984 by Greg O'Connell, a former NYC police detective. O'Connell, no run-of-the-mill developer, also functions as foreman of his own construction crew and community liaison for his project. O'Connell's most recent purchase is 141 Beard St., a 330,000-sq. ft. warehouse just a few blocks from his 150,000-sq.-ft. Pier 41.

O'Connell intends to turn the waterfront into a series of small business operations; craftspeople, wholesale/retail companies, even microbreweries (brewing and serving) have been drawn into his plans. He also believes in preserving the working waterfront, and a boatbuilder who repairs and builds wooden sailboats also plans to lease space, and may also start a small sailing school. Most tenants will be the the kind that draw visitors; an overhead walkway will extend through several stores so visitors can view the breweries and tradespeople at work, with the walkway leading to a microbrewery or wine bar along the waterfront.

continued on page 74

O'Connell poses in front of Pier 41. Building details include masonry stars, brick red arched doors and window shutters; potted flowers grace the length of the building.

Stretching out into New York Harbor, Pier 41 is divided into bays occupied by more than twenty businesses, ranging from a glassblowing studio to a pet supply warehouse.

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WRITE IN NO. 296

WATERFRONTS, continued from previous page

A trolley will take visitors to adjoining piers. The site offers spectacular views looking out onto the harbor of Upper New York Bay, with the Statue of Liberty in all her splendor.

One thing is readily apparent: The O'Connell enterprise is an evolving, long-term process, with a broad sense of economic, social, and environmental concerns.

Historic Structures

The structures are massive warehouses subdivided into bays. While O'Connell has brought in modern service (gas, water, electric, sewage) the spaces are rented raw, that is, with brick and stone walls and wooden ceiling joists exposed. These are not spaces that will draw festival market boutiques and t-shirt stores.

O'Connell's crew meets every morning to organize for the day's work. If it rains on a day they had planned for working outdoors, they switch gears and move inside, with O'Connell coordinating activities. The team has repaired and replaced roofs, replaced structural beams, put in fencing, and restored the steel shutters covering the doors and windows of the warehouses. They've added flower boxes, new trees, and pedestrian walkways to areas around the piers. They use and re-use salvaged materials: Old fencing has been rewelded, massive concrete blocks act as tree guards, etc.

Culture & Community

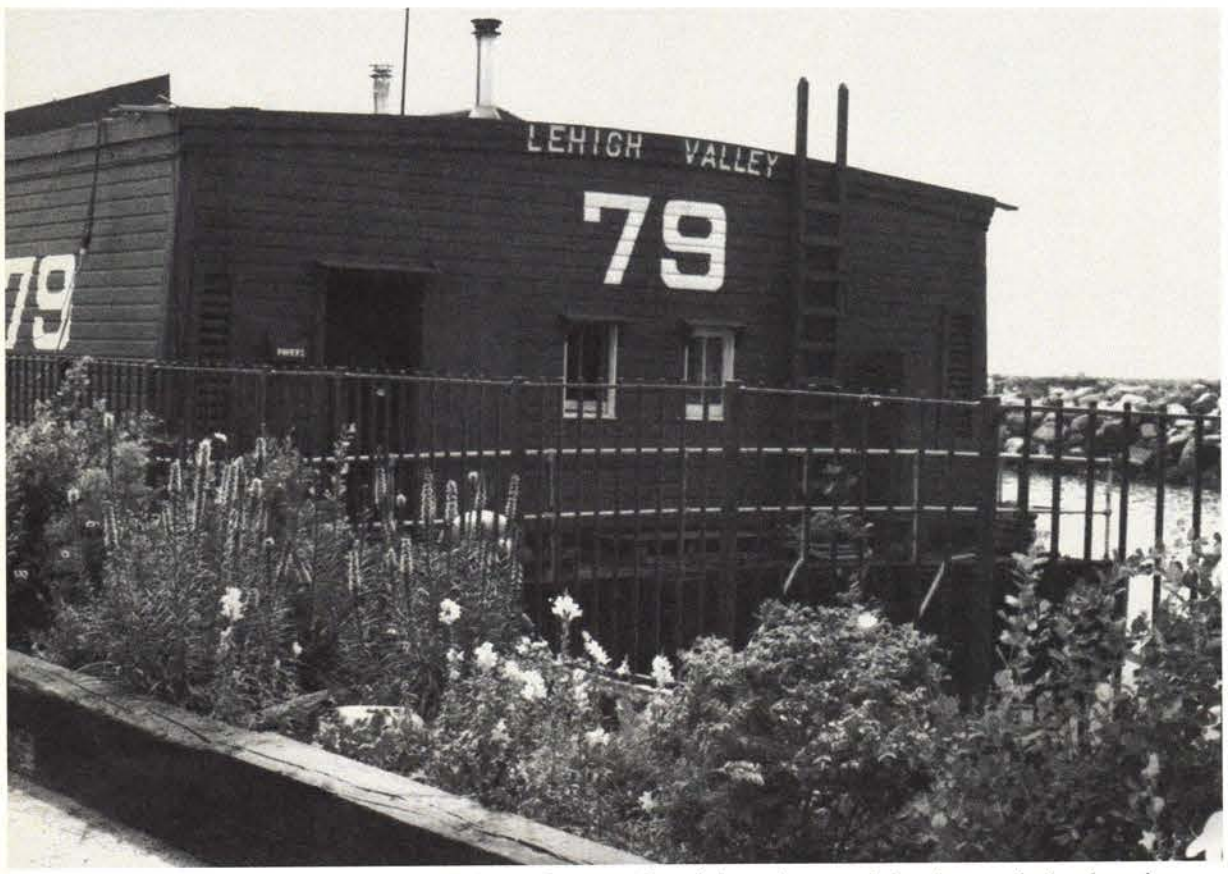
Many of the people at Pier 41 have been involved with the project for a number of years, and O'Connell says that he invests "in people who are invested in the long-range." O'Connell has encouraged cultural entities to utilize the piers; for example, an annual summer art show has used one of the warehouses for the past few years, and a barge that hosts music concerts and children's events docks not far from Pier 41. The barge, a Lehigh Valley Railroad tow, is one of the country's oldest wooden floating barges and is listed on the National Register.

Two projects already underway are 1. a jetty being raised near the barge, that fishermen will use; 2. the Brooklyn Historic Railway Assoc., whose owner has purchased four trolley cars (the oldest dating from the turn of the century) to run on a quarter-mile "heritage trail" that will travel around the piers, taking visitors to different shops and studios. About five hundred feet of track has already been laid, and overhead trolley wire installation is in the works.

Small Business

The piers have attracted more than 50 small businesses, from glassblowers to pet supply warehouses, food distributors to small manufacturers. O'Connell has turned Pier 41 alone into space for nearly 20 small businesses, and the building is now fully occupied. (One benefit to the locale is its accessibility to truck traffic, in an area zoned for such traffic.)

Year-round residents (and owners) of the Lehigh Valley Barge (left to right): David, Sophie, Sarah Burd-, and Dalia Sharps.



The Sharps' work on the barge has included a total restoration of the aging wood structure and a landscaping program that welcomed volunteer gardeners from the community.

O'Connell is an unusual small businessman himself; a writer for *The Washington Post* praised O'Connell for his free-market investment in the community, using private capital instead of government subsidies to revitalize the waterfront. (Along with O'Connell's efforts, Red Hook is part of a state economic development zone; the owners get tax credits when hiring for or investing in their companies.)

It's Everywhere

While New York City has 578 miles of shoreline, a great deal of it is still the domain of the Ports of New York and New Jersey, and it's just recently that parks, plazas, and other developments have sprung up. "For years," say Breen and Rigby in *Waterfronts*, "the urban waterfront was the exclusive realm of ports, fishing fleets, shipbuilding, and boat repair yards, warehouses for all types of products, tug yards, mills and manufacturing plants, grain silos, concrete terminals, coal and salt piles, waste water treatment plants, tank farms, and similar activities regarded as noxious or unattractive." — *Laura R. Allen*

(Photos by Felix Lief)

Waterfront Redevelopment Case Studies

Waterfront developments generally fall into one of three categories: Retail and entertainment/recreational, commercial and mixed-use commercial, and residential or resort/residential. The following four case studies represent a very broad range of waterfront developments around the country.

McKown Point Marine Research Facility, West Boothbay, Maine

Architects: Cambridge Seven Associates and Van Dam Renner Architects
Landscape Architect: Coplon Associates
HVAC: R.G. Vanderweil Engineers
Structural: Structural Design Consultants
Civil/Waste/Geotechnical: ABB Environmental Services
Client: Maine Bureau of Marine Sciences in the Dept. of Marine Resources and Bureau of General Services
Approximate Project Budget: $8,000,000

The McKown Point Marine Research Facility, a complex of lab and administration buildings, aquarium, two piers, and two running seawater systems houses the Maine Bureau of Marine Sciences, a division of the Dept. of Marine Resources.

The team prepared a master plan for the site — a dramatic rocky point of land projecting into Boothbay Harbor. Subsequently, Cambridge Seven Associates designed a new marine research lab, and Van Dam Renner Architects designed a new office/lecture building with renovations to existing lab, office, storage, and maintenance buildings. The designs are consistent with the unique, picturesque character typical of coastal Maine architecture.

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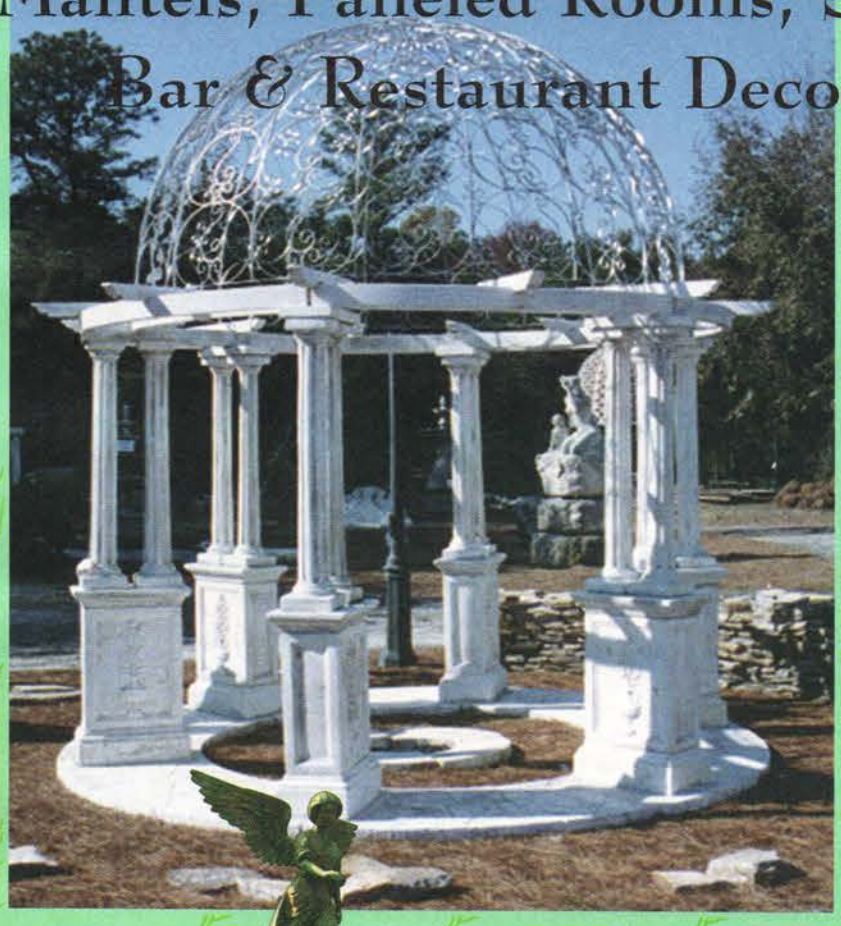

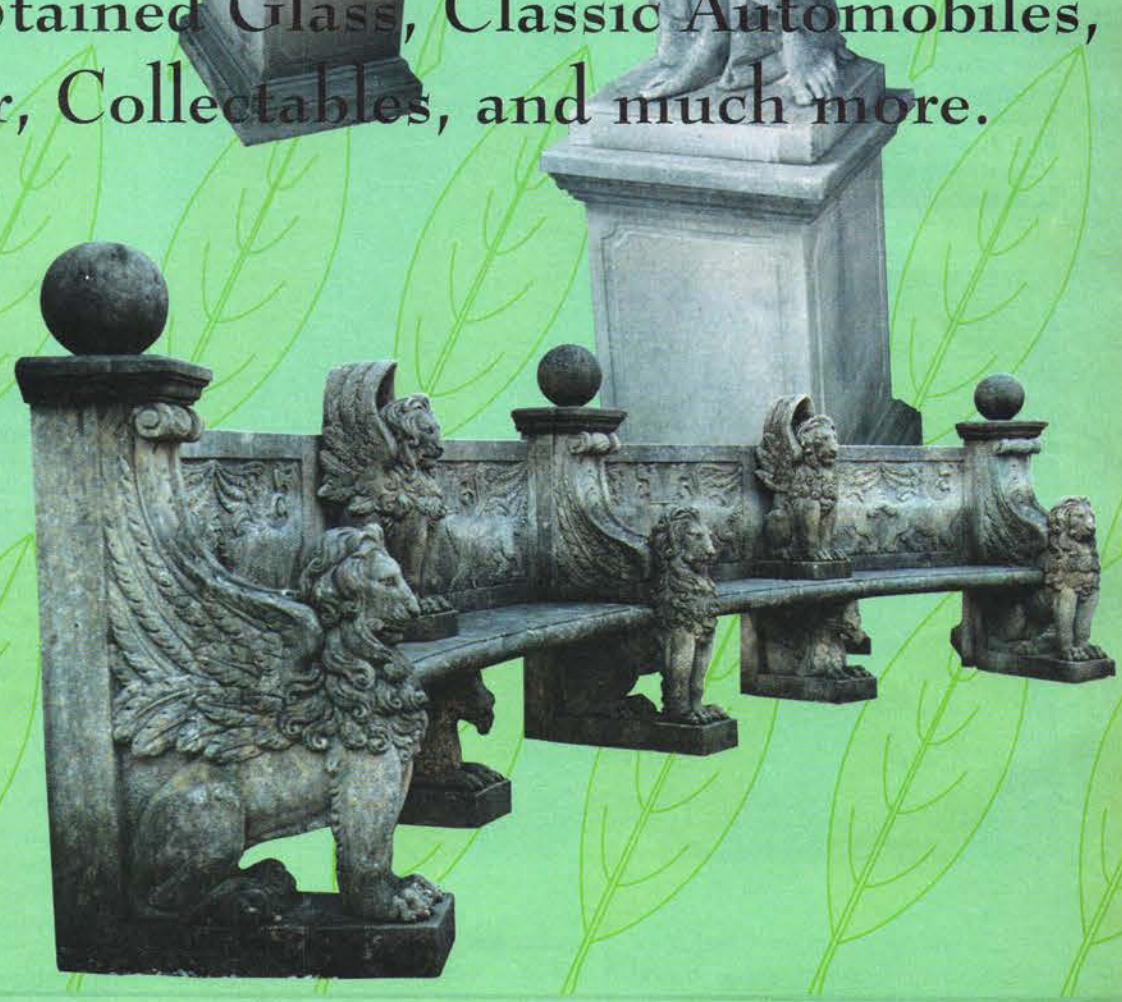

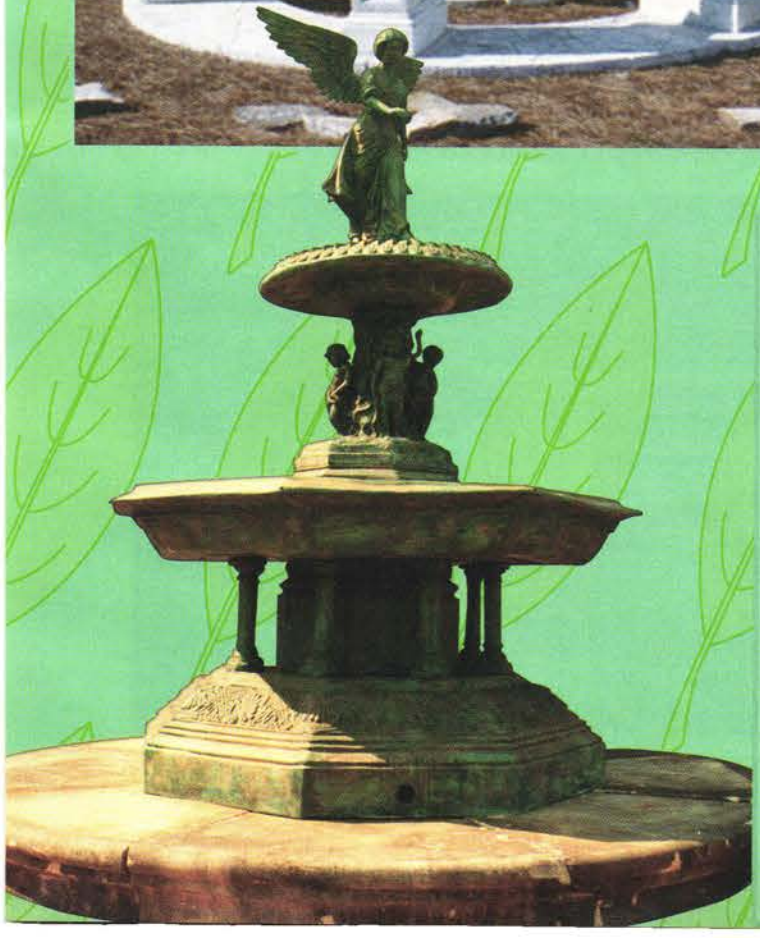

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WRITE IN NO. 327

East River Esplanade Park, Kips Bay, New York City

Landscape Architect: Thomas Balsley Associates, 119 Fifth Ave., NY, NY 10003
Design Team: Thomas Balsley, Richard Slayton, Barbara Ito
Consultants: Manuel Elken Consulting Engineers, New York City
Clients: Manhattan Community Board #6; New York City Economic Development Corp.; New York City Department of Parks and Recreation; The Glick Organization
Completion Date: 1992
Approximate Project Budget: $5,000,000

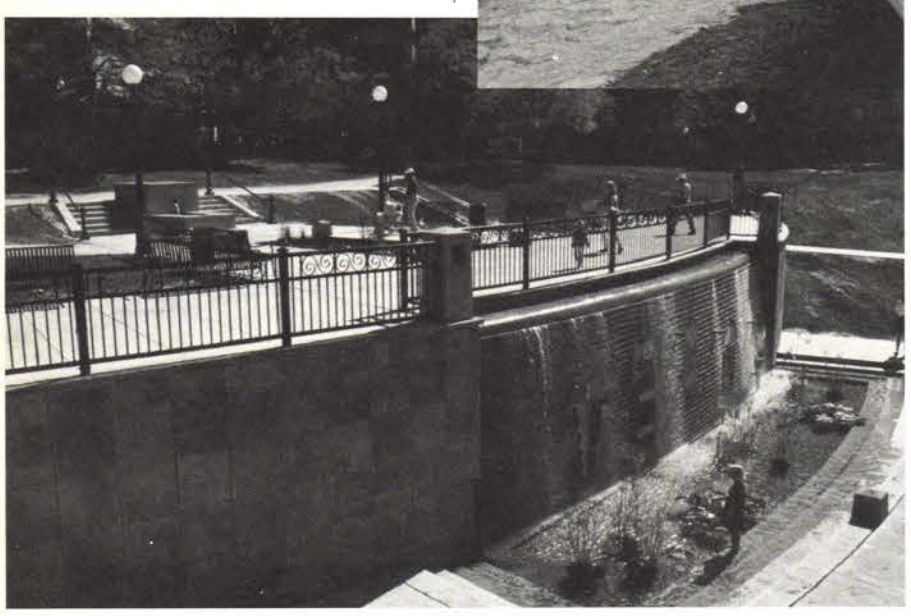
Completed in 1992, Phase I is a lively space enjoyed by East Side residents and workers. An arched pedestrian passage was literally carved through the elevated FDR Drive's solid wall. The two-block esplanade, with a combination of seatwalls and ledges, provides a variety of seating and sunning opportunities and establishes the first link of what one day could be a continuous esplanade between 34th and 41st streets, and eventually part of a chain of accessible waterfront spaces encircling Manhattan.

The sophisticated detailing and rich palette of durable materials (natural stone, cobbles, ironspot brick, and granite) have set a worthy standard for future phases, and plantings of clethra, star magnolia, and rhododendron offer seasonal color. Consistent unifying elements, such as decorative sea-rails and fountains, World's Fair benches, distinctive ornamental lampposts, and pavement will provide a visual coherency to the stretch.

An alternative to past "formula" esplanades, the park will transform the existing variegated edge into a ribbon of changing and distinct landscapes. The park will widen and narrow like a river, in a rhythmic pattern of active and passive episodes of surprise and discovery; lawns, gardens, tree-shaded seating areas, esplanades, fitness stations, floating recreation facilities, and open plazas will be animated with activity. Cantilevered overlooks, decorative fountains, concession stands, and interpretive kiosks provide focal points for information and other services. Eventually, the park will integrate the waterfront with the sidewalks, parks, and plazas of the surrounding neighborhood. Selected streets embellished with banners, decorative pavers, and dramatic lighting will welcome the park visitors.

Downtown Creekfront, Cherry Creek Revitalization, Denver, Colo.

(A collaboration between public and private entities and consultants from various disciplines)
Landscape Architect: Bill Wenk, Wenk Associates
Other Participants: Mark Leese, City & County of Denver; Bill Mosher, Denver Civic Ventures
Approximate Project Budget: $2.9 million



The Downtown Denver Creekfront Project made improvements in and adjacent to Cherry Creek — an underused stream sandwiched between the lanes of a City Beautiful-era parkway, in downtown Denver. Portions of the channel walls along the creek were removed to create a series of multi-use pedestrian spaces focused on the creek. The project links the downtown campuses of three universities to center-city Denver, extends and completes a pedestrian network, and improves pedestrian links between downtown cultural and shopping districts.

Two trails were created — one on either side of the creek — to separate pedestrians from cyclists on the heavily used downtown portion of the greenway. The channel bottom was constructed to withstand floods and create a series of water features that celebrate the aesthetic appeal of the water.

The primary construction materials are particular to the region and form a palette that complements the project's turn-of-the-century City Beautiful origins. Granite boulder structures define the channel bottom, and sandstone forms a series of formal fountains in the central plaza of the project. The granite and concrete (another primary material) will resist erosion and encourage pedestrians to approach the water's edge. Details like bollards and handrails are contemporary interpretations of design from the City Beautiful era. Flora include native, naturalized, and aquatic plants.

The Inn At Ludlow Bay, Ludlow Bay, Wash.

Architecture and Design: GGLO Architecture and Interior Design (Alan Grainger, partner in charge; Carol Deal Schaefer, interiors)
Project Manager: Jim Moore for Cascadia Hospitality Management Co.
Contractor: Walsh Construction
Structural Engineer: I.L. Gross
Construction: Terry Puma Planning and Construction Services
Landscape Design: The Berger Partnership
Completion Date: 1995

GGLO provided full architectural and interior design services for the recently opened Inn at Ludlow Bay. Framed by over a half mile of shoreline and beach, the inn is reminiscent of an East Coast estate, with expansive verandas, rose garden, and game lawn. The approach to the building, along a narrow causeway past the Port Ludlow Marina, is embraced by towers flanking the porte cochere and leads to a protected parking courtyard and kitchen herb garden. Each of the 37 guest rooms provide uninterrupted views of either the Olympic Mountains, Cascade Mountains, Mt. Baker, or the Marina.

The Inn is part of an extensive master plan designed by GGLO, intended to create a mixed-use community that honors Ludlow Bay's natural environment. Selected building materials include cedar shingles, locally quarried stone, painted clapboard siding that recalls beach architecture, and a galvanized metal roof.

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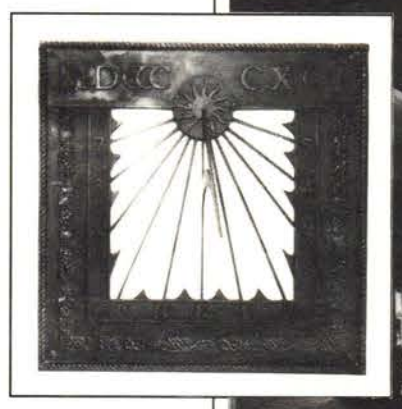

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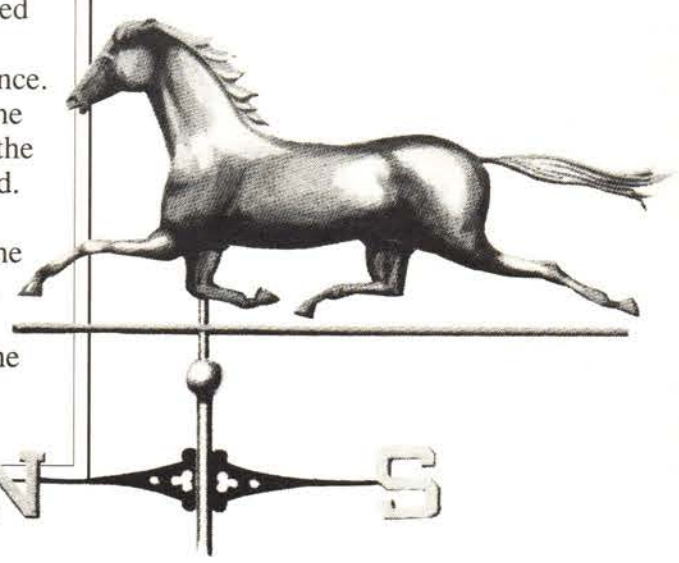

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SPECIFYING IRONWORK ON FENCES AND GATES

The relationship between ornamental metal fabricators and clients can be greatly improved by good communication and a common technical vocabulary. Here, a practicing metalworker shares her iron-clad know-how.

BY RHODA WEBER MACK, Fine Architectural Metalsmiths

Several approaches come handily to the architect/designer when it is time to specify ornamental metalwork: (1) Flipping open a catalog of stock elements and plugging them into the CAD drawing; (2) copying a pretty picture from Southworth's *Ornamental Ironwork*; or (3) drawing up the same lines as seen on a similar building down the street. These solutions, the easy ones, are not necessarily useful.

Defining the Parameters: Code and Budget

An approach that better serves your role as an architect/designer is to accommodate the twin parameters of budget and code compliance as carefully as you consider engineering requirements. Since metalwork is one of the last installations to go in on a project, yet is one of the most visible architectural embellishments, it is astute to budget early for the exterior metalwork, so you are not left with economy-class ironwork on a first-class project. It is actually to your advantage to approach the fabricator with a budget in mind, because the budget determines the processes and degree of detail that can be applied to the material, and allows the metalsmith to guide you in realistic parameters of design.

The second parameter of design is code compliance. In metalwork, code compliance defines open spacing between members, heights, projections, lateral deflections, handrail extensions, grip sizes, wall clearances, etc. Because codes vary from locality to locality, and especially among the three major code bodies of DOCA International Inc., ICBO, and SBCCI, the National Ornamental and Miscellaneous Metals Association (NOMMA) has commissioned a Standards Committee to research and catalog building code specifics across the country. The NOMMA Committee has already spent a year on the project, defining the way code bodies work and delineating the differences between code bodies, so that NOMMA member fabricators can make educated decisions about compliance.

It is not uncommon for an architect/designer to submit a pretty drawing for quotation which, when brought up to scale, reveals six-inch gaps between members — especially in free-form scroll work. Bringing the conceptual sketch into code compliance means a tighter design, which translates into higher fabrication and material costs. The fabricator can sometimes suggest ways to close in a design without skewing the costs too drastically. Codes are most severely interpreted in swimming pool enclosures; because of the open-ended liability issues involved, it is prudent to insist that owners follow strict code compliance for pools.

Specifying Technique: Cast, Machined, or Forged?

With the clear foundation of budget and code compliance, the conceptual phase of specifying fence and gate design can now work with site-specific considerations: The architectural style, of course, but also quite specifically, the feeling required in the landscape, whether classical and formal, or intimate and whimsical. This leads to a careful selection of the materials. It is important to understand the distinctions between cast, machine fabricated, and forged metalwork, and the costs, advantages, and limitations of each one. Cast work offers a wide range of styles — from massive baroque complexity to Victorian filigree. Specifying cast work requires the assurance that the cast design you draw up is in fact available, or knowing you have the budget in hand to commission the creation of a mold for your design. It's surprising how often nonexistent cast work is specified on modest budgets.

Fabrication from milled metal stock and standard catalog elements allows the capacity of machines to punch, press, stamp, plasma and laser cut, twist, roll circles, ellipses and arcs, grind and polish. Fabrication of milled steel stock can produce clean-lined and interesting work, with an honest machine-fabricated appearance.

Forge work is the oldest fabrication method of all, and except for the historical blossoming of ornamental cast work and the fleeting popularity of the blank-faced modern look, has been an endless source of style evolution. Forge work is also the most esoteric method to specify. It is helpful for the specifier to understand how the material moves under the hammer, chisel, and die, and to visualize the execution at the forge of what is drawn on paper in order to specify realistic design. Understanding forge work allows you to take best advantage of the ornamental characteristics of forge work and the plasticity of the material. Knowing the capabilities of forgework gives you the ability to specify structural components as decorative elements.

Under the hammer, structural or design elements can be **tapered** to transform the machined appearance of stock material into a hand-drawn look. Chisels are used to **pierce** the material, allowing the interesting intersection of elements threaded through one another. Dies and specially shaped chisels are used to **emboss** surfaces, to give definition to flat stock, and to shape medallions, leaves, and other decorative elements. Hammering the material against itself creates an **upset** as the material is forced back on itself, creating the decorative bulge so attractive at joins or terminations. Hammering or **drawing,** often used in scroll ends, spreads the material outward, making it thinner and wider. Because of the plasticity of the material, forgework can be specified in designs from classical European to modern organic forms.

Specifying Finish and Installation

Finally, specification of fencing and gates should include a viable finish that will protect the owner's investment. While the EPA has eliminated some priming chemicals from the market, and hot-dip galvanizing is a demanding measure, cold galvanizing is an option, as are the two-part epoxy compounds, used when a situation warrants the expense. Under normal circumstances, if the raw metal is sandblasted or acid-cleaned free of rust, grease and scale, a thorough zinc chromate primer will suffice under one of the finish coats formulated for exterior iron. Powder coating and metallizing are two premium finishes for situations where you need to minimize future maintenance.

Take the opportunity in the preconstruction phase to specify concealed methods of fastening into wood or masonry. Stainless-steel hardware, custom fabricated by the metalsmith, can be installed into masonry piers or placed below the capstone for rail or fence support. This requires level mountings by the mason and precise on-site measurements by the fabricator, but allows for clean, rust-free connections. For connections into poured concrete, Auciello Iron Works, of Hudson, Mass., provides a plastic insert called EZ Sleeve, which holds a clean hole for the installation of structural members, eliminating the need to hammer-drill the concrete. *(To reach Auciello Iron Works, call (508) 568-8382.)*

From Conceptuals to Working Drawings

Perhaps the most important part of specifying fences and gates is the possibility for educational dialogue between the designer and the fabricator. What the fabricator appreciates in a request for quotation is a designer who has done his/her homework, understands fabrication processes, and has taken care to present detailed conceptual drawings. What the fabricator does *not* want to see in a request for quotation is a pretty picture with no indication of opening space, no material selection, and no indication of the connectors. The relationship between specifier and fabricator is the transition from conceptual to working drawings, and while a skilled fabricator is grateful to work with an educated designer, the fabricator is just as glad to work with a designer with a lively sense of design who asks good questions and uses the metalsmith as the expert on material limitations and possibilities. Both the client and the work benefit from a good specifier/metalsmith partnership. ■

For contact information on Fine Architectural Metalsmiths, see p. 104.

New Additions to the Landscape Library

Between Fences, *Gregory K. Dreicer, Editor; published by the National Building Museum and the Princeton Architectural Press, New York; price $19.95; 88 pp.; softcover*

We generally focus our fences and gates Reports on some of the more elegant, unusual, stylish-yet-security-conscious types of fences (some brought over from Europe), but an exhibition currently on view at the National Building Museum, in Washington, D.C., focuses on some of the domestic varieties, the good, the bad, and the ugly. It explores how fences have shaped America and shaped our thinking about land ownership.

For example, in Connecticut in the 1640s, maintenance of fences was required by law — even leaving a gate open to a common field was subject to penalty. Introductory notes to the show explain that it was agricultural practice and the law that really helped to spur the construction of fences in this country.

The exhibition, which runs through January 5, 1997, features fences, of course, and hundreds of drawings, photographs, and models, including a working automatic chain-link machine, rare examples of cast-iron fencing, vintage trade catalogues and advertising posters, and a popular film series that straddles the idea of fences by showing movies on the settling of the Western frontier and home ownership.

The show's catalog presents essays on fences from the ubiquitous to the overlooked; the worm fence, stump fence, barbed wire, chain link, and picket fences are explored in essays by architects and architectural historians. "Fences are such commonplace objects," the curator explains, "that it is difficult to recover just how significant they were, how much work they entailed." A favorite example of the significance and prevalence of such styles is at an isolated army fort, Fort Steilacoom, in Washington, where the entire complex is surrounded by three thousand feet of domestic-scale picket fence.

The Victorian Garden, *by Allison Kyle Leopold with photographs by Edward Addeo; published by Clarkson Potter, New York; $40; 184 pp.; hardcover*

This book is a colorful overview of the design and history of Victorian gardens. The author provides nursery and plant lists, a guide to historic seeds, and design ideas for garden beds, topiary, furnishings, rockeries, and rooteries. The romantic landscape includes topiary, rustic furnishings, conservatories, and "an often overwhelming array of patterns and objects."

"For a Victorian garden, some of the main tenets include a love of the picturesque; a passion for ornament, color, and 'bedding out'; the use of ever new and exotic plants; and the treatment of the garden as an outdoor parlor, with furnishings to suit that theme."Other aspects covered in the book, along with popular specialty gardens, include the kitchen garden, the rustic garden, and outfitting the conservatory.

Greenways: A Guide to Planning, Design, and Development, *Loring LaB. Schwarz, Editor; Charles A. Flink and Robert M. Searns, authors; Island Press, 1718 Connecticut Ave., N.W.; Washington, D.C. 20009; Copyright 1993; 351 pp.; $45, cloth, $29.95 paperback.*

Greenways can be seen as "a green infrastructure for our communities," say the authors of this comprehensive and informative 1993 textbook, developed by the Conservation Fund, a non-profit land and water conservation organization. An offshoot of the organization is The American Greenways Program, which serves as an umbrella organization for greenway development, and administers a grant program. While the idea of greenways is hardly new (Frederick Law Olmsted created the "parkway" in 1865, and Benton MacKaye proposed the best known greenway, the Appalachian Trail, in 1921), the book points out that today people in all parts of the country are having a harder time experiencing the outdoors and are used to pursuing their recreational activities closer to home. Greenways are part of the response to this.

For example, the "Rails to Trails" movement has meant that approximately five hundred trails have been created, covering a span of more than three thousand miles. But the strength of the greenway movement lies in its diversity, and greenways can be flexible enough for all kinds of needs, and all kinds of terrain. Greenways generally follow a trail or course of some kind, be it water, an abandoned railroad, or a popular hiking trail. At their best, they are also links to recreation and cultural heritage areas, and are a non-motorized transportation corridor for residents of a community. Denver's Platte River Greenway is the central spine of a larger network that includes the tributary streams, canals, and so on, that line the Platte River and wind their way through the city and suburbs, creating an area-wide hiking and biking trail system.

The book's chapters are essentially organized to take you from beginning to end of a project, from planning to implementation and maintenance. Chapter topics include greenway management and safety, assessing the impact on the ecology of the area, considerations for bridges and boardwalks, terrain, site furnishings, and even soil composition. — *LRA*

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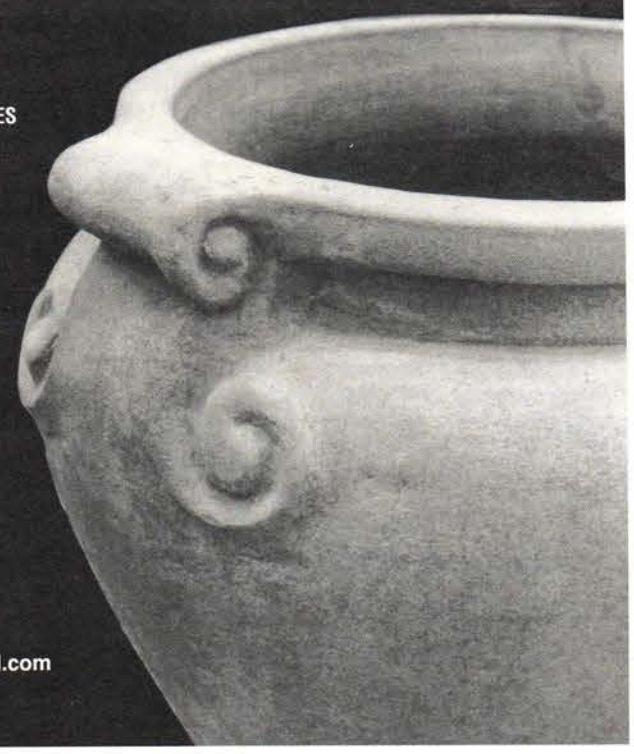

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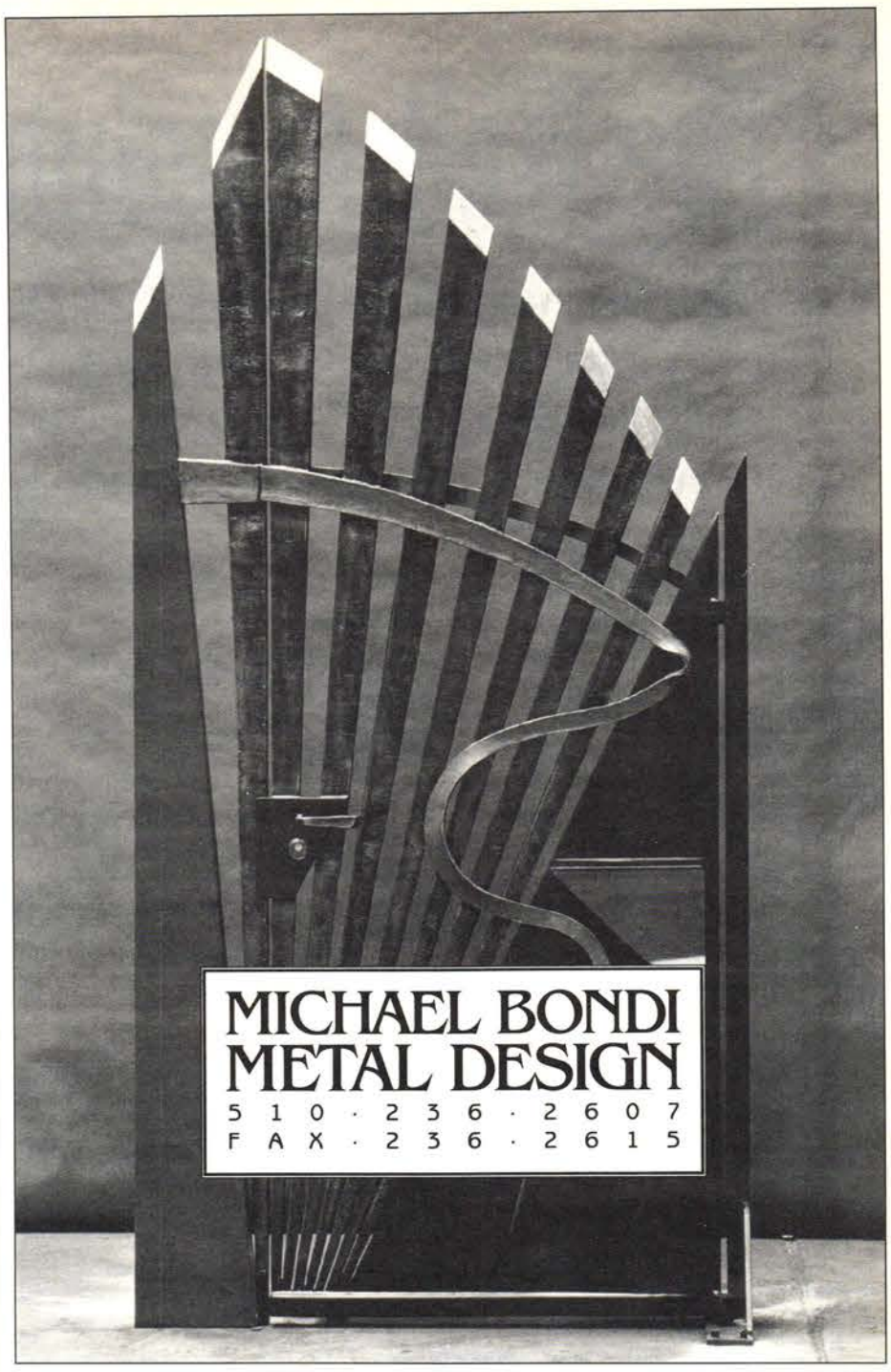

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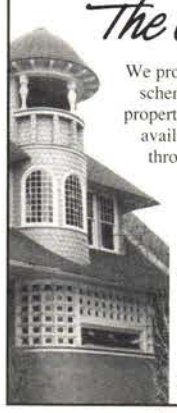

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WRITE IN NO. 103

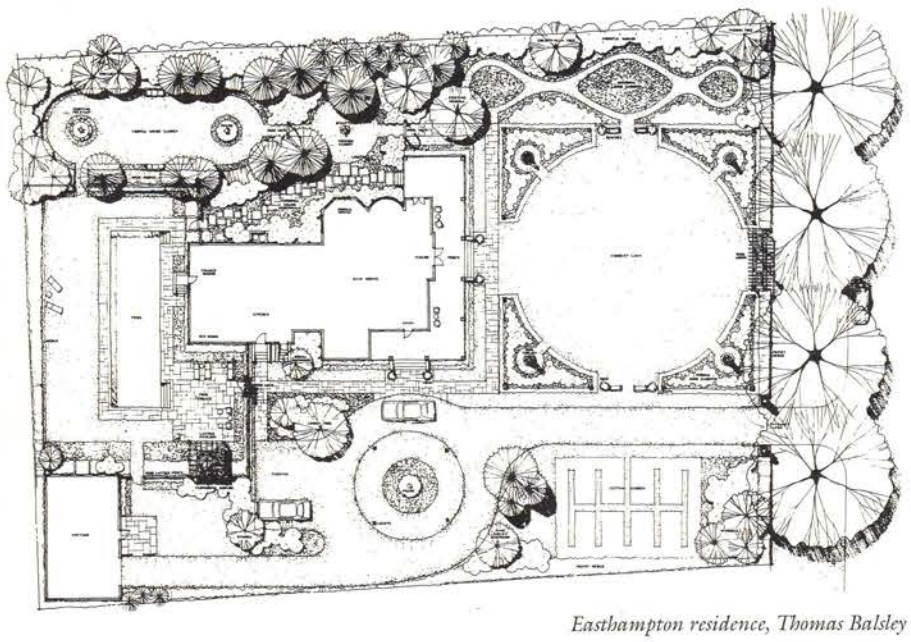
The Well-Appointed Garden, Applied

With rich historic precedent and an abundant supply of beautifully crafted and traditionally styled ornament today, a period garden can still be achieved. Following are descriptions of five projects where the landscape architect (and, in one case, planter supplier) created a traditionally styled garden, integrating judiciously placed garden decoration into the overall design of the grounds.

Project: Private Residence, East Hampton, N.Y.
Landscape Architect: Thomas Balsley

Although this East Hampton, N.Y., shingle-style house held landmark status, the house and surrounding one-acre property were grossly neglected. The landscape architect, Thomas Balsley, had to develop a tightly knit program of garden "rooms" so the landscaping could be done in discreet pieces and, ultimately, owner and guests could enjoy a garden tour of individual spaces. Balsley achieved strong architectural boundaries for each "room" by using garden architecture. He reiterates, "They are the elements that define each space and give it structure, whether placing two urns on either side of the stairway to strengthen the entrance, or elsewhere, the use of archways, portals, and trellis-work." The urns in front are glazed terra-cotta antiques and extend the house entrance out to the drive. In addition to the urns, other garden ornament — "an eclectic collection of objects" — come together in the garden, including a pair of 10-ft. tall copper finials that delineate a rose garden.

Easthampton residence, Thomas Balsley



Easthampton residence, Thomas Balsley

continued on page 82

Planters In The Traditionally Styled Garden

Planters, a Renaissance concept, can perform many different roles in a garden or landscape. Here are some historic precedents — juxtaposed against some current projects that show how designers are applying these time-tested principles.

Today's market abounds with magnificently detailed planters and urns, in materials as diverse as carved stone, terra cotta, cast stone, and fiberglass, to name just a few. The deceptive simplicity of decorating with garden furnishings can lead to unfortunate installations; a common technique is scattering planters copiously around a garden like polka dots on a tablecloth. However, proper use — under the hand of a skilled designer — can do such things as demarcate garden axes, create focal points, or visually strengthen access paths.

To show how the thinking about planters and other garden ornament has both evolved through time — and in some ways remained strikingly the same — we've cited a few scholars on the subject of garden decoration in period landscapes below. In addition, we've surveyed some ***Traditional Building*** readers to provide five examples of carefully considered uses of planters in current projects *(see left and the following page)*.

THE CLASSICAL GARDEN

"Here, also, [Villa Gamberaia, near Florence] may be noted in its fullest expression that principle of old gardening which the modern "landscapist" has most completely unlearned, namely, the value of subdivision of spaces...the old garden-architect proceeded [on the opposite principle,] arguing that, as the garden is but the prolongation of the house, and as a house containing a single huge room would be less interesting and less serviceable than one divided according to the varied requirements of its inmates, so a garden which is merely one huge outdoor room is also less interesting and less serviceable than one which has its logical divisions...from this intelligent method of planning the most varying effects of unexpectedness and beauty were obtained...[Vicobello, near Siena] The descending walled gardens, with their different levels, give opportunity for many charming architectural effects — busts in niches, curving steps, and well-placed vases and statues." — *Edith Wharton*, Italian Villas and Their Gardens, *1903*

THE ROMANTIC GARDEN

"Where there is a terrace ornamented with urns or vases, and the proprietor wishes to give a corresponding air of elegance to his grounds, vases, sundials, etc., may be placed in various appropriate situations, not only in the architectural flower-garden, but on the lawn, and through the pleasure-grounds in various different points *near the house*. We say near the house, because we think so highly artificial and architectural an object as a sculptured vase, is never correctly introduced unless it appear in some way connected with buildings...But when we see a statue or a vase placed in any part of the grounds where a near view is obtained of the house (and its accompanying statues or vases), the whole is accounted for, and we feel the distant vase to be only a part of, or rather a repetition of the same idea,—in other words, that it forms part of a whole, harmonious and consistent." — *A.J. Downing*, Landscape Gardening and Rural Architecture, *1865*

THE ENGLISH GARDEN

"[English flower gardens] might include a small bust, an urn or vase raised on a plinth and perhaps some broken antique stones casually lying on the ground...In places not requiring classical symbols, wooden tubs and brightly painted terracotta vases filled with flowering plants are used...The most common objects in these gardens are statues, vases, columns, tablets, and other monuments [that can be] made from stone, marble (or lead painted to look like stone or marble)...terracotta. Fibreglass and other plastics are also used but the material must be weather resistant. Wood is rarely used... Sitting out on these verandas or on the paved terrace was a favourite pastime of the Victorians and they covered them with extravagant displays of plants in ornate vases, baskets, urns, and other decorated containers...[which] might be placed along the edge of the terrace, set at least 1 ft. above the ground on a retaining wall or a balustrade." — *Elizabeth Banks*, Creating Period Gardens, *1991*

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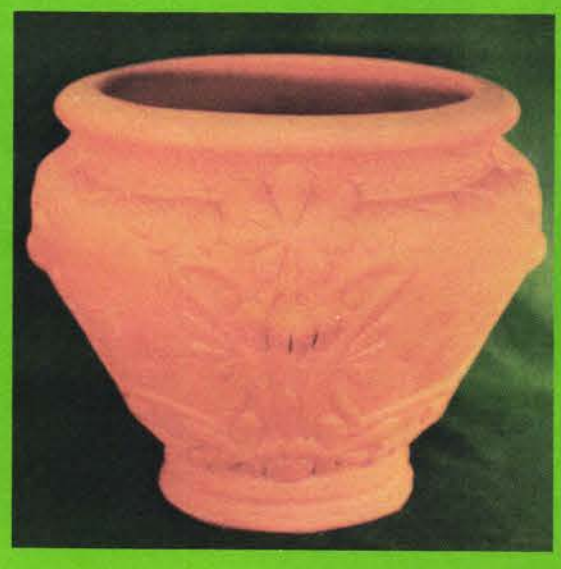

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WRITE IN NO. 416

PLANTERS, continued from page 80

Project: Biltmore Estate, Asheville, N.C.
Planters: Seibert & Rice, Short Hills, N.J.

Among the American homes of the late 1800s and early 1900s adorned with terra cotta from Impruneta, Italy, is the Biltmore Estate, landscaped by Frederick Olmstead (who, along with Charles Platt, travelled to Italy to study Italian gardens and installed many of Impruneta's terra-cotta urns in this country.) Because of the high iron (and other mineral) content of Impruneta soil, its terra cotta has a distinctive warm pink color with white highlights. After several weeks of drying, the pots are fired for a week at about 2,000 deg. F. (Many of the workshops still use brick vaulted, woodburning kilns that date back to the 1700s.) Both the high iron content and length of firing result in an extremely beautiful — and durable — terra cotta.

Biltmore, Seibert & Rice

Biltmore, Seibert & Rice

Biltmore, Seibert & Rice

Having been exposed to the elements for 100 years, some of Biltmore's urns have finally broken. Staff at the Estate contacted Seibert & Rice — exclusive importers of over 30 styles of Impruneta urns and planters — about the possibility of replacing the pots. Lenore Rice, co-founder of the business, researched the Biltmore's pots and found they were crafted by a workshop run by the Agresti brothers, one of whom was a sculptor. And although the workshop is reputed to have been one of the best in Impruneta, it no longer exists. Through their contacts, Seibert & Rice uncovered some of the original molds at another Impruneta workshop run by the grandson of the man who bought the molds from the Agrestis.

The Biltmore urns are now being precisely reproduced. Each of the two features a male and female face (different on each of the urns), rosettes, and two different types of garlands. The large urns are made by hand using the coil method, and the ornamentation is applied using a variety of molds. The detail will then be expertly hand finished. For those ornaments for which original molds have been lost, shards of the original urns have been shipped to Impruneta so the potters can study detail and size and create new molds. ▣

Biltmore, Seibert & Rice

☛ For guidance on planter materials and guidelines for specifying traditionally styled planters, see Jamie Purinton's "Planters: Selection & Construction," Traditional Building, March/April 1995, page 38. The article addresses planters in wood, metals (lead, cast aluminum, and cast iron), fiberglass and stone resin, and terra cotta.

☛ For 362 suppliers of traditional landscape, streetscape & garden products, see the SourceList on pp. 100-116.

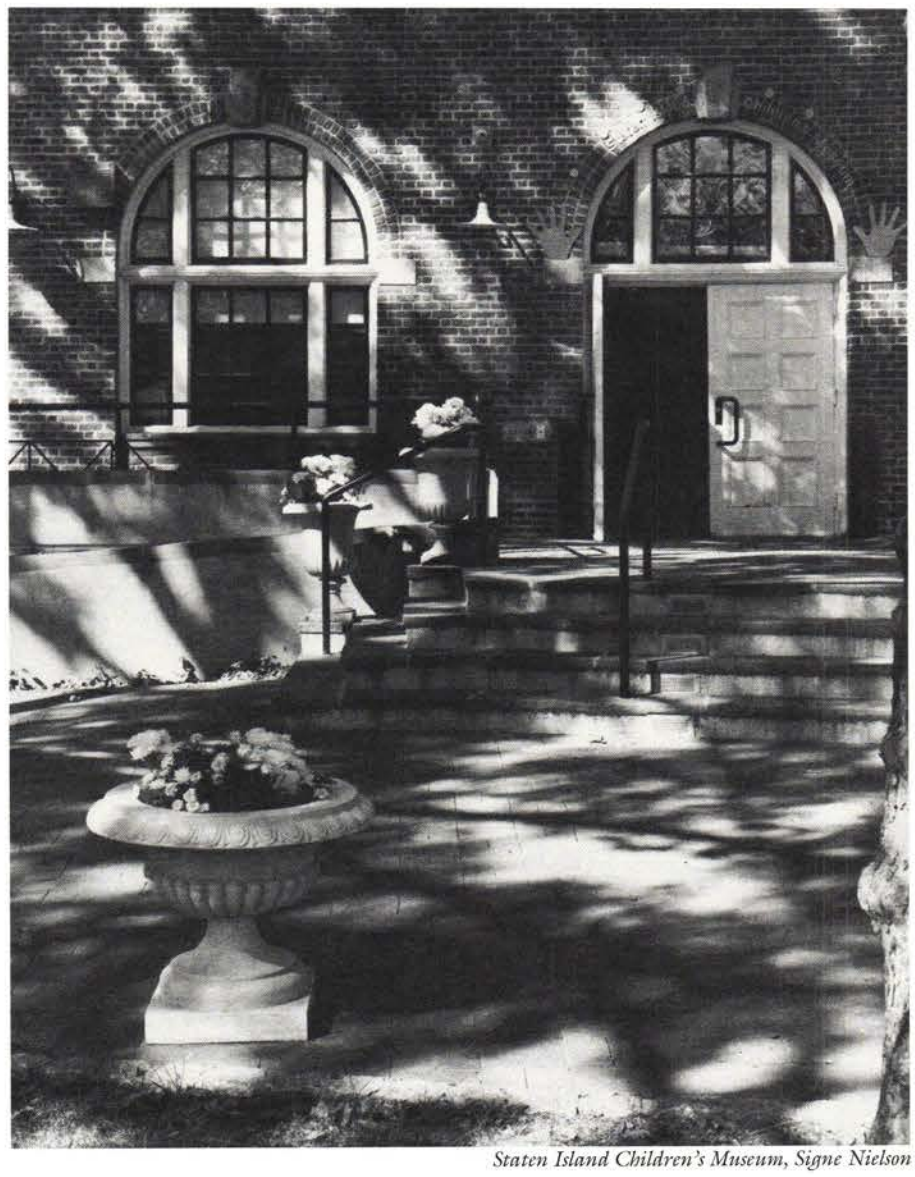
Project: Private Residence, Scarsdale, N.Y.
Landscape Architect: Thomas Balsley

This stone Georgian manor was completely overgrown, having been left vacant for over 10 years. It was, as Balsley noted, "a diamond in need of buffing." The biggest weakness of the property was that there was no extension of Classical Georgian architecture into the garden; that is, poor follow-up of the architecture into the landscape to make it read as one, most notably lacking in the main (auto court) entrance. The property's design commenced with clearing out the entire site, retaining only significant trees. Then, the skeleton of the landscape was mapped out (plantings happened in the second phase of the project). Stone retaining walls were built both in front and in back of the house with Haddonstone's cast-stone urns placed on the entry piers to lend more vertical structure and further delineate the edges and entrances to other garden areas and the endings of the walls. Further, the urns provided an excellent opportunity to add color; perennials fill the containers.

Scarsdale Residence, Thomas Balsley

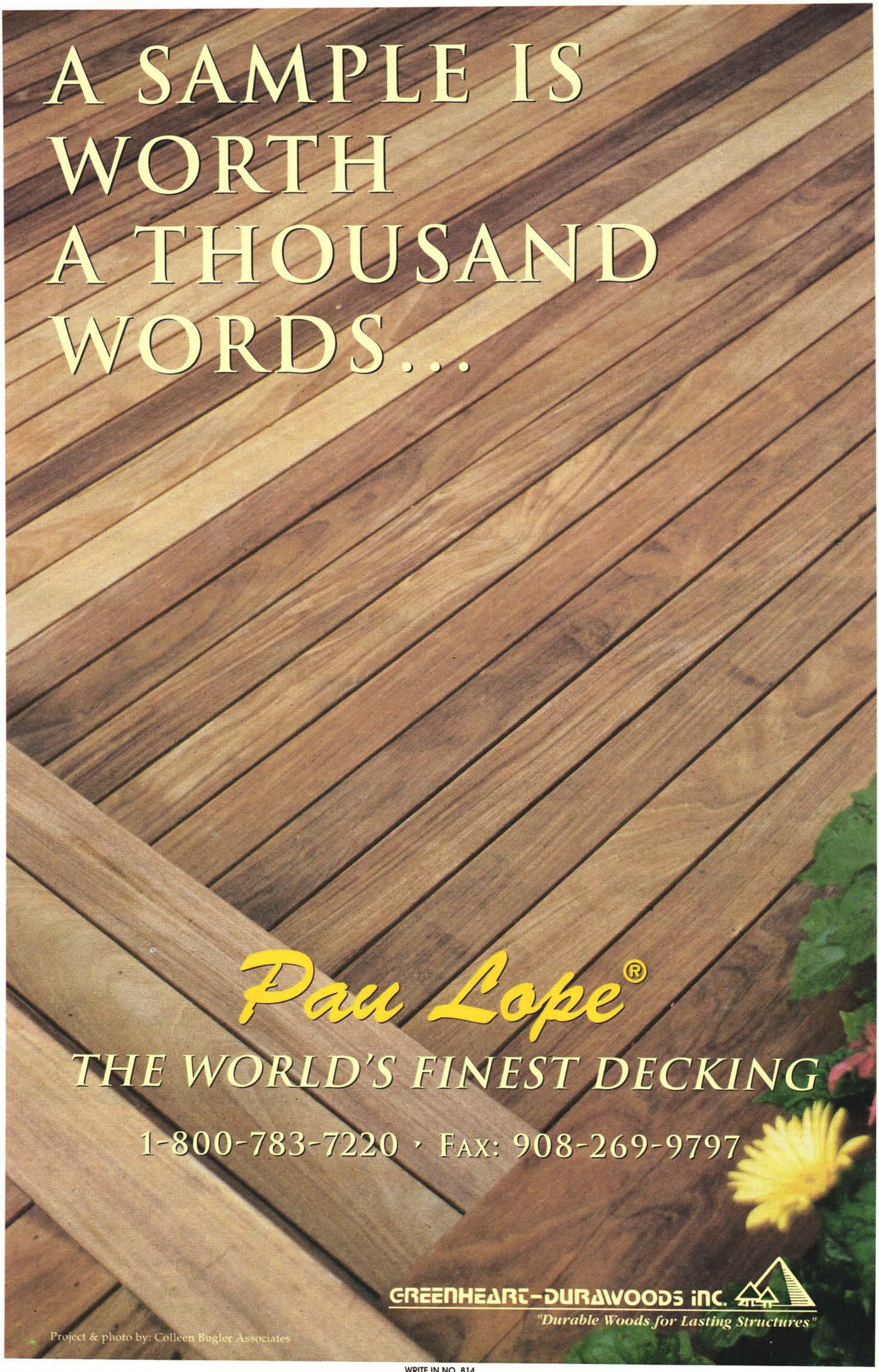
Balsley used the English style of breaking the landscape down into garden rooms, and then using garden decoration. "Strong Classical design depends heavily on these objects," Balsley notes, adding his philosophy, "The designer must understand and focus on the underlying structure of all of these spaces. Otherwise, you have a series of gardens that don't relate to one another." ▣

Project: Staten Island Children's Museum, Staten Island, N.Y.
Landscape Architect: Signe Nielsen, P.C.



Staten Island Children's Museum, Signe Nielson

This museum project, in Staten Island's historic and landmarked complex of the Snug Harbor Cultural Center, was formerly known as the Soldiers and Sailors Snug Harbor. Buildings on the site were constructed over a period of 70 years throughout the 19th century with the museum, in particular, constructed c.1870. The entire Cultural Center has a set of design guidelines pertaining to appropriate materials to be used in phased reconstructions, including paving, light fixtures, bollards, and curbs. *No guidelines exist for planters.* Signe Nielsen's office proposed cast-stone planters, which have the same color and texture as the limestone detailing on many of the surrounding buildings. The planters are intended to serve several purposes: 1) A visual anchor to the stairs and frame entering and exiting the main door; 2) Visual indicators of the edge of the paved plaza and transition to open lawn; and 3) A low-cost, easily maintained way to introduce seasonal color for museum visitors. ▣



WRITE IN NO. 814

Buyer's Guide for Landscapes, Streetscapes & Gardens

On the following 60 pages, you'll find detailed information about 362 suppliers of traditionally styled products for Landscapes, Streetscapes & Gardens. In this, our 3rd Annual report in this specialized product area, the Editors have put together the largest Buyer's Guide ever assembled for designers and builders of historically styled gardens and landscapes. This Buyer's Guide is divided into four major sections: (1) ALPHABETICAL PRODUCT INDEX, pp. 84-98, in which the products and services of the 362 listed companies are broken down into 97 product categories; (2) SUPPLIER SOURCELIST, pp. 100-116, which contains a capsule description and complete contact information for each company; (3) PHOTO PORTFOLIO, pp. 118-145, which provides a visual sampling of many of the magnificent traditional products available to today's designer; (4) RELATED PRODUCT ADVERTISING, running from pp. 85 to 145. We think you'll find this Buyer's Guide amounts to an amazing Landscape Products Exposition In Print!

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For full contact information on these companies, consult the SourceList on pp 100-116.

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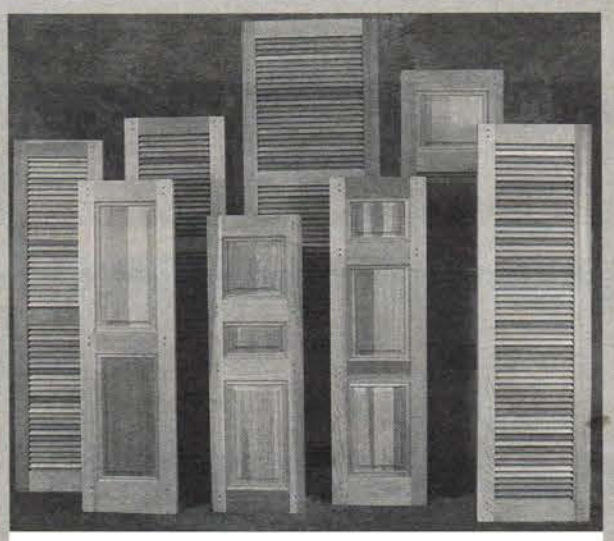
Above: VICTORIAN 15 FT. MODEL WITH TWO-TIERED ROOF.



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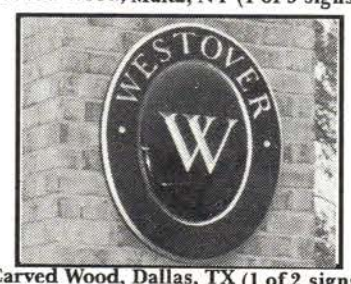

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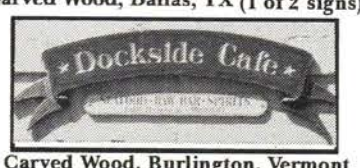

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Chadsworth Columns
Chelsea Decorative Metal Co.
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ConServ Epoxies
Cook's Antique Lumber Co.
Craftsman Lumber Company
Crown Corp.
Cumberland Woodcraft Co.
Custom Cascades
Decorators Supply Corp.
Executive Woodsmiths
Fagan Design & Fabrication
Fiberglass Specialties
Glass House
Great Northern Barns
Greenstone Slate
HB&G
Heather & Little, Ltd.
Heritage Door
Herwig Lighting
Historical Arts & Casting
Johnson Atelier
Kaylien, Inc.
Lake Shore Industries
Leisure Woods, Inc.
Lynch & Sons, Inc.
Maiman Company
Mica Lamp Co.
Midwest Arch. Wood Products
Miller Manufacturing, Inc.
Monarch Radiator Enclosures
Monumental Iron Works
Murdock, Inc.
Newfoundland Slate, Inc.
Nixalite of America, Inc.
North Fields Restorations
Original Cast Lighting
Ornamental Mouldings, Inc.
Pagliacco Turning & Milling
Phelps Co. Architectural Specialties
Real-Tool, Inc.
Redman Woodturning, Gail
Reggio Register Co.
Rejuvenation Lamp & Fixture Co.
Rheinzink Canada, Ltd.
Roy Electric Co.
Schwerd Manufacturing Co.
Silverton Victorian Millworks
Sleepy Hollow Chimney Supply
Specification Chemicals
Spring City Electrical Mfg. Co.
St. Louis Antique Lighting Co.
Stone Legends
Stone Magic Mfg.
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Sun-Dor-Co
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Terra Designs
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Walpole Woodworkers
White Oak Forge, Ltd.

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Adornments for Architecture
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Archicast
J.G. Braun Co.
Bruce Post Co.
Brumder Ornamental Iron, Inc.
Classic Garden Ornaments
Conant Custom Brass, Inc.
Denninger Cupolas & Weather Vanes
Fine Architectural Metalsmiths
Great Gatsby's
Henri Studio, Inc.
Kayne & Son Custom Hardware
Liberty Brass Turning Co.
Liberty Die Casting Co.
NIKO Contracting Co.
Pehoski Metal Smiths
Red Baron's Antiques
Reed Bros.
Rossato Giovanni, snc
Specrail
Texas Metal Industries, Inc.
Vulcan Supply Corp.

FLAGPOLES

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Blake Industries
Chaenomeles, Inc.
Eder Flagpole Co.
Farrey's Lighting
Graney & Associates Metal Design
HAPCO, Inc.
Hennessy House Wooden Poles
Keep In Touch/Villager Storm Window
Sign of the Crab
Union Metal Corp.

FOUNTAIN CONTROLS

Aquarius Waterworks, Inc.
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Festive Fountains
Florida Falls
Fountain Crafts Mfg. Co.
Great Gatsby's
Hobbs, William, Ltd.
L.I. Fountain Co.
Red Baron's Antiques
Roman Fountains
Al Zimmer's Ponds & Supplies

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Architectural Pottery
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Bamboo Fencer
Blake Industries
Brass Baron
Brookbrae Limited
Claycraft Fiberglass Planters Co.
Cold Spring Granite Co.
Copperworks of Don Miller
Custom Cascades
Designs in Tile
DMS Studios
Eve Waterlaus
Farrey's Lighting & Bath
Federal Stone Industries
Festive Fountains
Florentine Craftsmen
Florida Falls
Fountain Crafts Mfg. Co.
Garbe Fountains & Sculpture
Goodwin International
Great Gatsby's
Henri Studio, Inc.
Historical Arts & Casting Inc.
Hobbs, William, Ltd.
Home & Garden Ornaments
Kasco Marine, Inc.
L.I. Fountain Co.
Limestone Concept, Inc.
Lunaform
Lynch & Sons, Inc.
New York Quarries
Otterbine Barebo, Inc.
Pellettieri Stonecarving
Pottery Mfg. & Distributing
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Red Hogan Enterprises, Inc.
Robinson Iron Corp.
Romantic Topiaries
Rossato Giovanni, snc
Sculptural Designs
Seibert & Rice, Inc.
Smith Bronzes
Stone Legends
Stone Magic Mfg.
Stoneworks of Vermont
Texas Metal Industries, Inc.
Tierra y Sol
Tile Restoration Center, Inc.
Vulcan Supply Corp.
Waterspirit Sculptures, Inc.

FOUNTAINS, STREET & PUBLIC

Aquarius Waterworks, Inc.
Blake Industries
Brass Baron
Brookbrae Limited
Claycraft Fiberglass Planters Co.
Cold Spring Granite Co.
Custom Cascades
Designs in Tile
DMS Studios
Federal Stone Industries
Festive Fountains
Florida Falls
Fountain Crafts Mfg. Co.
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Great Gatsby's
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Historical Arts & Casting Inc.
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Kasco Marine, Inc.
L.I. Fountain Co.
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Limestone Concept, Inc.
Lunaform
Lynch & Sons
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Water Structures by Galaxy East Co.
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Brass Baron
Custom Cascades
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DMS Studios
Festive Fountains
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Goodwin International
Graney & Associates Metal Design
Grayson Woodcarving & Design, Kelly
Greenheart Durawoods, Inc.
Jefferson Mack & Associates
Kaviar Forge
Kramer Brothers
Labbe Co., M.R.
Lynch & Sons
Metalmorphosis Studios
Mills & Co.
New York Quarries
Old Hickory Furniture Co.
Outhouse, The
Pellettieri Stonecarving
Pottery Mfg. & Distributing
Reed Bros.
Robinson Iron Corp.
Romancing The Woods
Rossato Giovanni, snc
Salt Creek Furniture
Smith & Hawken; Trade Sales Div.
Sycamore Creek
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For full contact information on these companies, consult the SourceList on pp 100-116.

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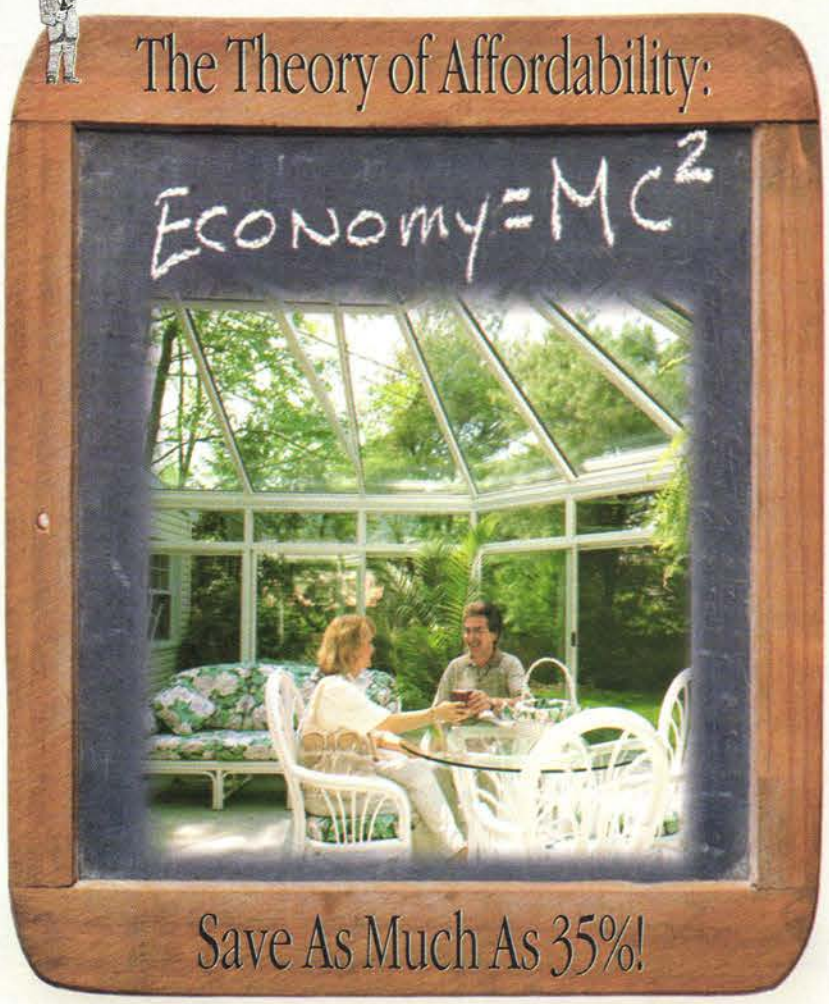

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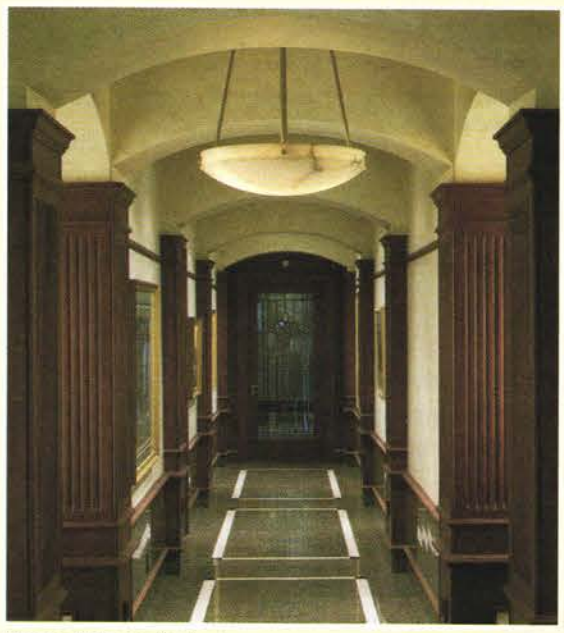

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Stamford Lantern

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Prairie Sunrise Ceiling Fixture

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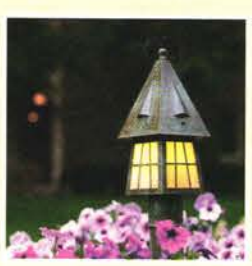

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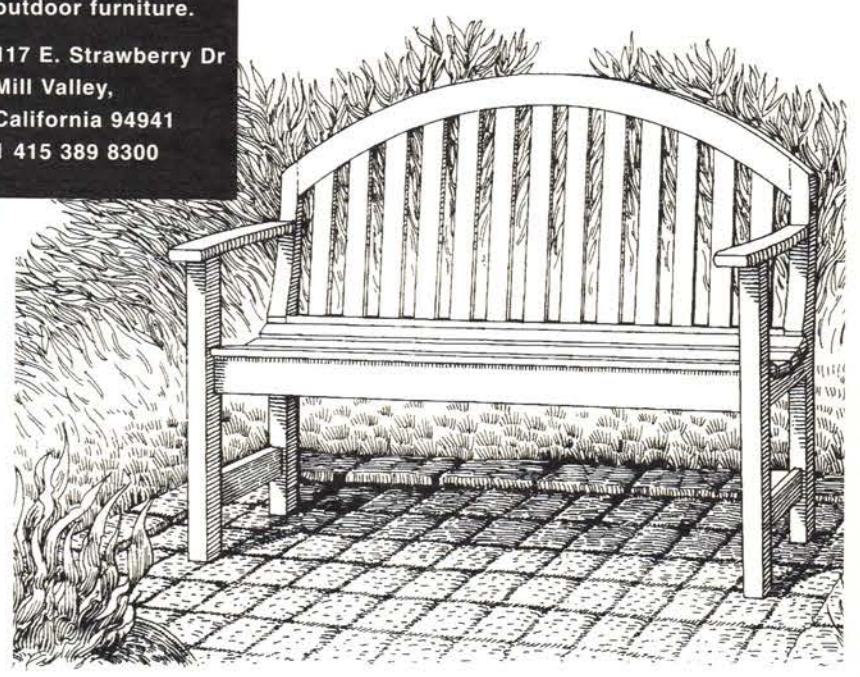

Smith & Hawken TO THE TRADE

WRITE IN NO. 14

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Texas Metal Industries, Inc.
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Wausau Tile, Inc.
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Celestial Creations
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D-Scan Gloster
Farrey's Lighting
FrenchWyres
Graney & Associates Metal Design
Grayson Woodcarving & Design, Kelly
Ned James Architectural Metal
Kaviar Forge
Labbe Co., M.R.
Old Hickory Furniture Co.
Outhouse, The
Reed Bros.
Romancing The Woods
Salt Creek Furniture
Smith & Hawken; Trade Sales Div.
Texacraft Outdoor Furnishings
Texas Metal Industries, Inc.
Vermont Outdoor Furniture

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DuMor, Inc.
Duraform
Eaglebrook Products
Florentine Craftsmen
Graney & Associates Metal Design
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Ned James Architectural Metal
Kaviar Forge
LaCor/Streetscape
Lynch & Sons
Pellettieri Stonecarving
Rossato Giovanni, snc
Sitecraft
Smith & Hawken; Trade Sales Div.
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FURNITURE & AWNING FABRIC

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Brass Baron
J.G. Braun Co.
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Claycraft Fiberglass Planters Co.
Coe Studios, Inc.
Concrete Shop, Inc.
Designs in Tile
Eve Waterlaus
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Graney & Associates Metal Design
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Kramer Brothers
Lake Creek Garden Features
Lunaform
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Material Plane
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Red Hogan Enterprises, Inc.
Reed Bros.
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Fine Architectural Metalsmiths
Graney & Associates Metal Design
Kayne & Son Custom Hardware
Maguire Iron Corp.
Master-Halco, Inc.
Material Plane
Merchant's Metals, Inc.
New Blue Moon Studio
Ornamental Iron Materials & Supply Inc.
Pehoski Metal Smiths
Peters & Son
Rossato Giovanni, snc
Snug Cottage Imports, Inc.
Specrail
Texas Metal Industries, Inc.
Walpole Woodworkers

GATE OPERATORS

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Master-Halco, Inc.
Merchant's Metals, Inc.
Monumental Iron Works
Ornamental Iron Materials & Supply Inc.
Tennessee Fabricating Co.
Texas Metal Industries, Inc.
Universal Entry Systems
Walpole Woodworkers

GATES, ORNAMENTAL

Architectural Iron Designs, Inc.
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Bamboo Fencer
Bondi Metal Design, Michael
Coe Studios, Inc.
Design Associates
Fine Architectural Metalsmiths
Freedom Forge
Gaby's Shoppe
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Great Gatsby's
Historical Arts & Casting Inc.
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Ned James Architectural Metal
Jefferson Mack & Associates
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Kaylien, Inc.
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Specrail
Stewart Ironworks Co.
Stickney's Garden Houses
Texas Metal Industries, Inc.
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Dalton Pavilions
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Star Metal Inc.
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KIOSKS & INFORMATION BOOTHS

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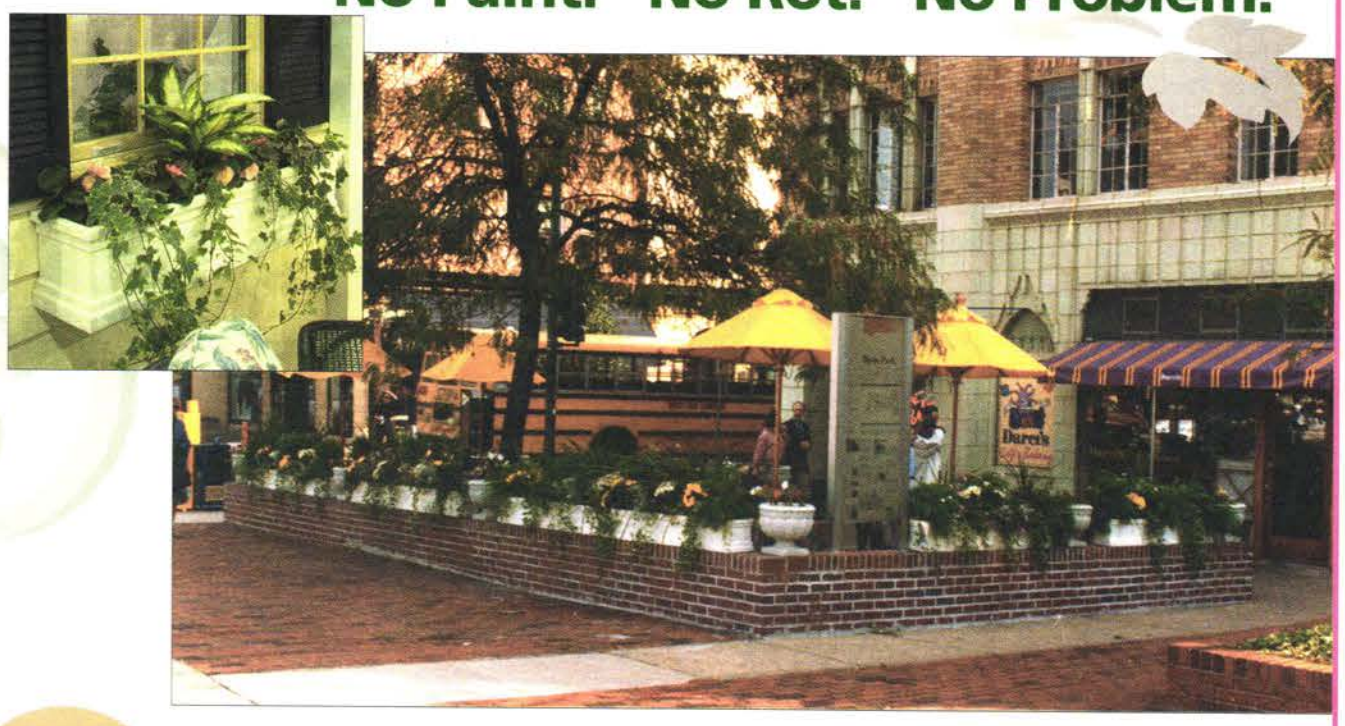

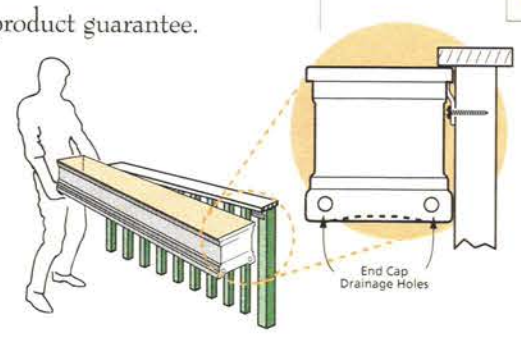

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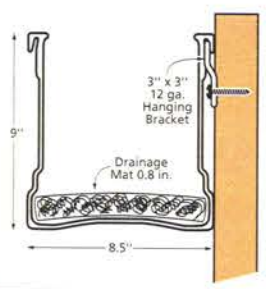

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Farrey's Lighting
Freedom Forge
Graney & Associates Metal Design
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Herwig Lighting
Hinkley Lighting
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Lake Creek Garden Features
LWO Corporation
Mills & Co.
Nebraska Plastics Inc.
Painted Garden
Plastics Research Corp.
Quality Fencing and Supply
Romantic Topiaries
Sitecraft
Stickney's Garden Houses
Sycamore Creek
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Eve Waterlaus
Farrey's Lighting
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Hanover Lantern
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Reggiani USA, Inc.
Rockscapes, Inc.
Rojey Corp.
Sun Valley Lighting
Texas Metal Industries, Inc.
TrimbleHouse Corp.
U.S. Architectural Lighting
Vulcan Supply Corp.

LIGHTING, STREET

Ball & Ball Lighting
Blake Industries
Dutch Product & Supply Co.
Great Gatsby's
Hanover Lantern
Period Lighting Fixtures
Red Baron's Antiques
St. Louis Antique Lighting Co.
Sternberg Vintage Lighting
Sun Valley Lighting
TrimbleHouse Corp.
U.S. Architectural Lighting
Union Metal Corp.
Ward Industries

LIGHTING, UNDERWATER

Farrey's Lighting
Focus Industries
Fountain Crafts Mfg. Co.
Henri Studio, Inc.
Intermatic Professional Landscape Lighting
L.I. Fountain Co.
Otterbine Barebo, Inc.
Rena Corp.
Rojey Corp.
U.S. Architectural Lighting

LUMINAIRES

Blake Industries
King Luminaire Co.
Sternberg Vintage Lighting
TrimbleHouse Corp.
U.S. Architectural Lighting
Ward Industries

MAILBOXES

Barker Metalcraft
Blake Industries
Bose Associates
Chaenomeles, Inc.
Copper Sculptures
Fypon, Inc.
Graney & Associates Metal Design
Great Gatsby's
Hanover Lantern
Heritage Vinyl Products
Nebraska Plastics Inc.
Red Baron's Antiques
Reed Bros.
Robinson Iron Corp.
Romantic Topiaries
Sign of the Crab
Tennessee Fabricating Co.
Texas Metal Industries, Inc.

METALWORK, CAST

Architectural Bronze & Aluminum Corp.
Art Research & Technology, Ltd.
Ball & Ball Hardware
Blake Industries
J.G. Braun Co.
Brumder Ornamental Iron, Inc.
Campbell Foundry Co.
Coe Studios, Inc.
Eve Waterlaus
Historical Arts & Casting Inc.
Johnson Atelier
Kaviar Forge
Kayne & Son Custom Hardware
La Haye Bronze Architectural
Material Plane
Owen Pattern, Foundry & Mfg. Co.
Steigerwald Sculpture
Tennessee Fabricating Co.
Texacraft Outdoor Furnishings
Texas Metal Industries, Inc.

METALWORK, FORGED & WROUGHT

Ball & Ball Hardware
Blake Industries
Bondi Metal Design, Michael
J.G. Braun Co.
Brumder Ornamental Iron, Inc.
Coe Studios, Inc.
Denninger Cupolas & Weather Vanes
Design Associates
Gaby's Shoppe
Graney & Associates Metal Design
Great Gatsby's
Indital, USA
Ned James Architectural Metal
Jefferson Mack & Associates
Kaviar Forge
Kayne & Son Custom Hardware
Maguire Iron Corp.
Material Plane
New Blue Moon Studio
Red Baron's Antiques
Romantic Topiaries
Smith & Hawken; Trade Sales Div.
Tennessee Fabricating Co.
Texacraft Outdoor Furnishings
Texas Metal Industries, Inc.

MURAL TILES, PAINTED

Designs in Tile
Great Gatsby's
McIntyre Tile
Red Baron's Antiques
Terra Designs

MURALS, RELIEF

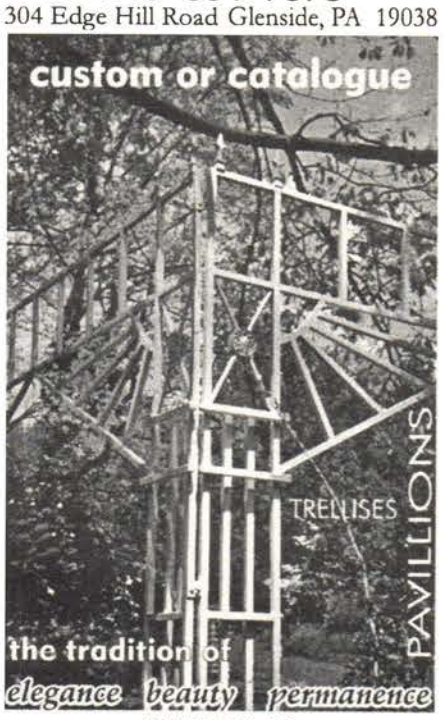
Archicast
Brookbrae Limited
Gladding, McBean
Grajales Architectural Ceramics
Great Gatsby's
Lunaform
McIntyre Tile
Pellettieri Stonecarving
Red Baron's Antiques
Rossato Giovanni, snc
Sculptural Designs
Steigerwald Sculpture
Surving Studios

ORNAMENT, CARVED STONE

Asian Artifacts
Brookbrae Limited
DMS Studios

For full contact information on these companies, consult the SourceList on pp 100-116.

The Painted Garden, Inc.
215 884 7378
304 Edge Hill Road Glenside, PA 19038



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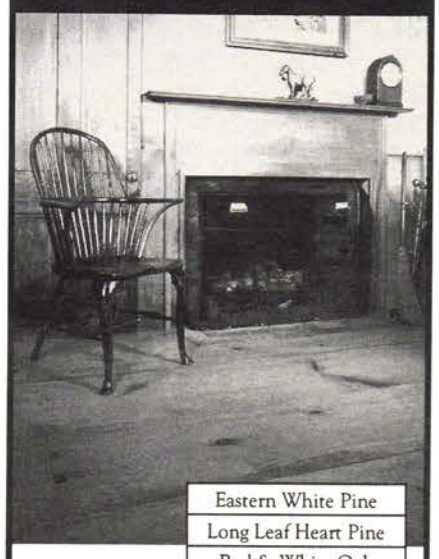
WIDE PLANK FLOORING



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WRITE IN NO. 265

Buyer's Guide for Landscapes, Streetscapes & Gardens

Great Gatsby's
Maine Millstones
Pellettieri Stonecarving
Portland Brownstone Quarries
Red Baron's Antiques
Red Hogan Enterprises, Inc.
Rossato Giovanni, snc
Tierra y Sol

ORNAMENT, CAST STONE

Archicast
Blake Industries
Concrete Shop, Inc.
Essex Works, Ltd.
Great Gatsby's
Henri Studio, Inc.
Home & Garden Ornaments
Key Cast Stone, Inc.
Lynch & Sons
Red Baron's Antiques
Stone Legends
Stone Magic Mfg.
Stoneworks of Vermont
Tropical Tiles, Inc.
Zelby Co.

ORNAMENT, METAL

Architectural Bronze & Aluminum Corp.
Ball & Ball Hardware
Blake Industries
Bose Associates
Brass Baron
J.G. Braun Co.
Brumder Ornamental Iron, Inc.
Chelsea Decorative Metal Co.
Coe Studios, Inc.
Conant Custom Brass, Inc.
Denninger Cupolas & Weather Vanes
Farrey's Lighting & Bath
Freedom Forge
FrenchWyres
Gaby's Shoppe
Graney & Associates Metal Design
Great Gatsby's
Historical Arts & Casting Inc.
JA Sculpture & Casting Supplies
Ned James Architectural Metal
Kaviar Forge
Kayne & Son Custom Hardware
Lighting by Hammerworks
Lynch & Sons, Inc.
Maguire Iron Corp.
Material Plane
Metalmorphosis Studios
Mison Concepts, Inc.
Montoya/MAS Intnl, Inc.
NIKO Contracting Co.
Ornamental Iron Materials & Supply Inc.
Owen Pattern, Foundry & Mfg. Co.
Painted Garden
Red Baron's Antiques
Romantic Topiaries
Schiff Architectural Detail
Sign of the Crab
Specrail
Star Metal Inc.
Tennessee Fabricating Co.
Texas Metal Industries, Inc.
Triebenbacher Bavarian Iron Works
Vulcan Supply Corp.
White Oak Forge, Ltd.

ORNAMENT, POLYMER

Classic Garden Ornaments
Claycraft Fiberglass Planters Co.
Fypon, Inc.
Worthington Group

ORNAMENT, TERRA COTTA

Adobe Elegance
Gladding, McBean
Grajales Architectural Ceramics
Great Gatsby's
Michael Bentley Enterprises
Nocera Art Tile Co.
Pottery Mfg. & Distributing
Red Baron's Antiques
Red Clay Tile Works
Seibert & Rice, Inc.
Smith & Hawken; Trade Sales Div.
Tierra y Sol

PATINA MATERIALS

A&C Distributors
Patina Finishes and Copper Coatings
Sur-Fin Chemical Corp.

PAVERS

A&M Victorian Decorations, Inc.
Artcrete, Inc.
Boral Bricks, Inc.
Cambridge Pavers, Inc.
Cold Spring Granite Co.
Concrete Shop, Inc.
Connecticut Stone Supplies
Custom Stone Supply
Durastone
Echeguren Slate, Inc.
Federal Stone Industries
Grinnell Concrete Paving Stones
Guy Heavener, Inc.
Higgins Brick
Interstate Brick
Invisible Structures
Kirchner Industries
McIntyre Tile
Mortex Mfg. Co.
Old Carolina Brick Co.
Pava, Inc.
PAVE TECH/Probst
PaveLoc Industries
Pine Hall Brick
Portland Brownstone Quarries
Richtex Corp.
Rocktile Specialty Products, Inc.
Seneca Tiles, Inc.
Stampcrete
Stone Legends
Stone Magic Mfg.
Tierra y Sol
Tricon Enterprises, Inc.
Tropical Tiles, Inc.
Wausau Tile, Inc.

PAVERS, ENGRAVED

Cambridge Pavers, Inc.
Grinnell Concrete Paving Stones
Higgins Brick
Kirchner Industries
Old Carolina Brick Co.
PAVE TECH/Probst
Pine Hall Brick
Profit Resources
Wausau Tile, Inc.

PERGOLAS

A&M Victorian Decorations, Inc.
Alumet Building Products, Inc.
Bamboo Fencer
Blake Industries
Bow House/BowBends
Dalton Pavilions
Graney & Associates Metal Design
Mills & Co.
Painted Garden
Romancing The Woods
Romantic Topiaries
Sitecraft
Walpole Woodworkers
Wood Innovations of Suffolk

PLANS FOR GAZEBOS, BRIDGES

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PLANTERS & URNS

Acanthus Garden/H.D. Goddin Antiques
Adobe Elegance
Archicast
Architectural Pottery
Barlow Tyrie Inc.
Blake Industries
Brooks Barrel Co.
Classic Garden Ornaments
Claycraft Fiberglass Planters Co.
Cold Spring Granite Co.
Concrete Shop, Inc.
Copper Sculptures
D-Scan Gloster
Doty & Sons Concrete Products
DuMor, Inc.
Duraform
Florentine Craftsmen
Flower Framers
FrenchWyres
Gladding, McBean
Gladding, McBean Pottery
Goodwin International
Great Gatsby's
Henri Studio, Inc.
Home & Garden Ornaments
Jaz Products
Key Cast Stone, Inc.
Kramer Brothers
Lake Creek Garden Features
Lunaform
Lynch & Sons, Inc.
Metalmorphosis Studios
Michael Bentley Enterprises
New London Brick Works
Nichols Bros. Stoneworks
Pellettieri Stonecarving
Pottery Mfg. & Distributing
Red Baron's Antiques
Reed Bros.
Robinson Iron Corp.
Romancing The Woods
Romantic Topiaries
Seibert & Rice, Inc.
Smith & Hawken; Trade Sales Div.
Stoneworks of Vermont
Tennessee Fabricating Co.
Texacraft Outdoor Furnishings
Texas Metal Industries, Inc.
Tierra y Sol
Tricon Enterprises, Inc.
Vulcan Supply Corp.
Walpole Woodworkers
Wausau Tile, Inc.
Wood Innovations of Suffolk
Zelby Co.

POLES & POSTS, LIGHTING

Baxter & Co., J.H.
Blake Industries
Bose Associates
Bruce Post Co.
Coe Studios, Inc.
Hanover Lantern
HAPCO, Inc.
Hennessy House Wooden Poles
Herwig Lighting
Historical Arts & Casting Inc.
LampLight Industries
Robinson Iron Corp.
Spring City Electrical Mfg. Co.
Sternberg Vintage Lighting
Stewart Ironworks Co.
Traditional Concrete Products
TrimbleHouse Corp.
U.S. Architectural Lighting
Union Metal Corp.

For full contact information on these companies, consult the SourceList on pp 100-116.

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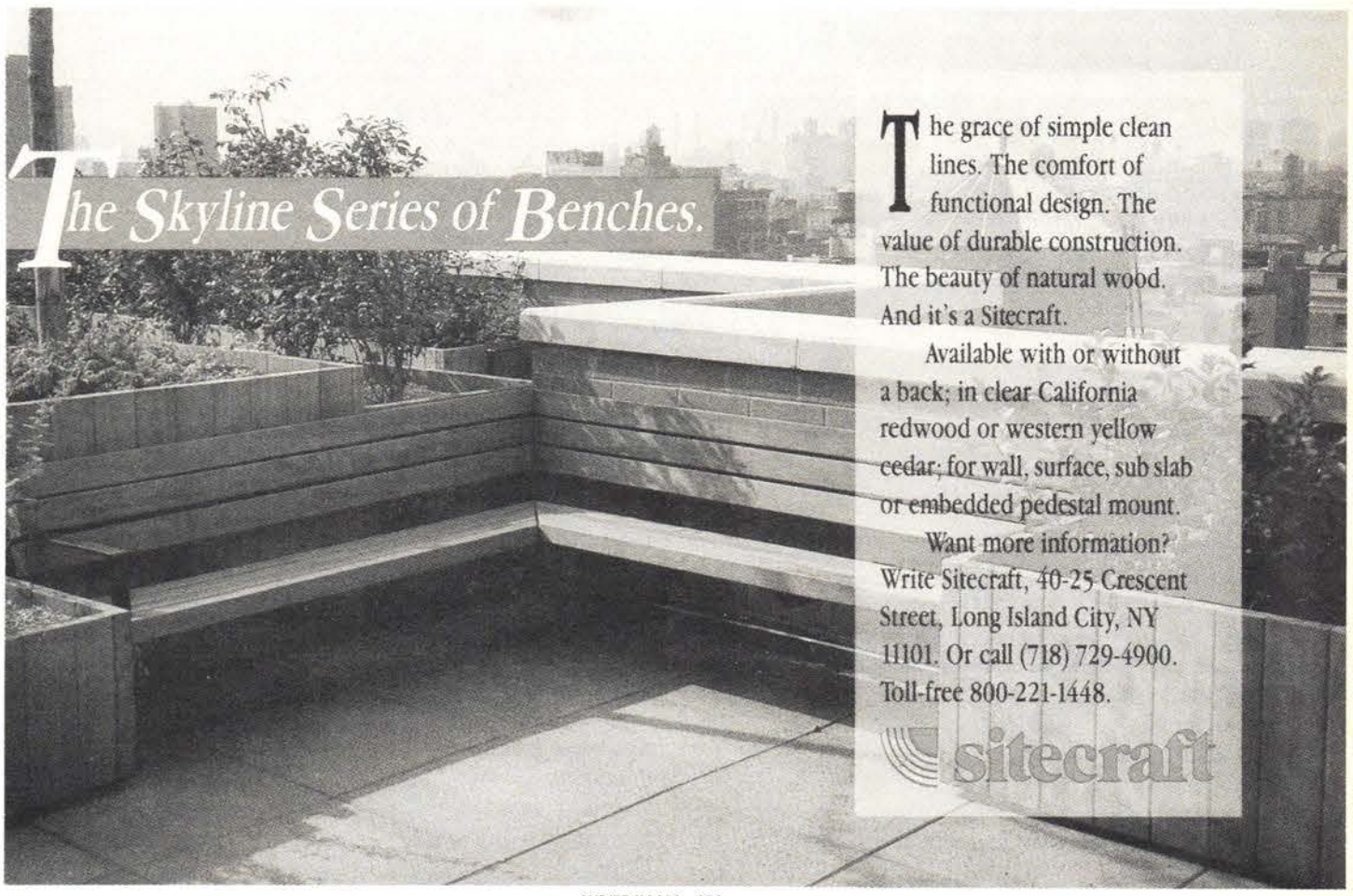

WRITE IN NO. 673

Buyer's Guide for Landscapes, Streetscapes & Gardens

Ward Industries
Woodwright Co.

POND LINERS

Eide Industries,Inc.
Environmental Protection, Inc.
Fountain Crafts Mfg. Co.
Henri Studio, Inc.
L.I. Fountain Co.
Rena Corp.
Al Zimmer's Ponds & Supplies

POOLS

Aquarius Waterworks, Inc.
California Rockscape
Claycraft Fiberglass Planters Co.
Cover-Pools, Inc.
Designs in Tile
Fountain Crafts Mfg. Co.
Henri Studio, Inc.
L.I. Fountain Co.
Rena Corp.
Specrail
Water Structures by Galaxy East Co.

RAILINGS

Adams Stair Works & Carpentry
Architectural Iron Designs, Inc.
Bamboo Fencer
J.G. Braun Co.
Conant Custom Brass, Inc.
Crown Heritage
Fine Architectural Metalsmiths
Freedom Forge
Gaby's Shoppe
Goddard Mfg.
Graney & Associates Metal Design
Heritage Vinyl Products
Historical Arts & Casting Inc.
Ned James Architectural Metal
Jefferson Mack & Associates
Kaviar Forge
LWO Corporation
Merchant's Metals, Inc.
Mison Concepts, Inc.
New Blue Moon Studio
Old Hickory Furniture Co.
Pehoski Metal Smiths
Robinson Iron Corp.
Specrail
Stairways, Inc.
Star Metal Inc.
Steptoe & Wife Antiques, Ltd.
Triebenbacher Bavarian Iron Works
White Oak Forge, Ltd.

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Akzo Nobel Systems Co.
Cambridge Pavers, Inc.
Cold Spring Granite Co.
Connecticut Stone Supplies
Grinnell Concrete Paving Stones
Guy Heavener, Inc.
Innovative Concrete Design Corp./ICD
Kirchner Industries
New York Quarries
Old Carolina Brick Co.
Pava, Inc.
PAVE TECH/Probst
PaveLoc Industries
Portland Brownstone Quarries
Rockwood Retaining Walls, Inc.
Versa-Lok Retaining Wall Systems

SCULPTURE, CUSTOM

Aquarius Waterworks, Inc.
Archicast
Architectural Ornaments, Inc.
Art Research & Technology, Ltd.
Brookbrae Limited
Claycraft Fiberglass Planters Co.
Coe Studios, Inc.
Concrete Shop, Inc.
Essex Works, Ltd.
Eve Waterlaus
Florentine Craftsmen
Fountain Crafts Mfg. Co.
Garbe Fountains & Sculpture
Giust Gallery
Gladding, McBean
Goodwin International
Graney & Associates Metal Design
Great Gatsby's
Harvey Bronze Sculptures
Henri Studio, Inc.
Johnson Atelier
Kaviar Forge
Key Cast Stone, Inc.
LaRocca Sculpture
LeQuire, Alan
Lohr Studio
Maine Millstones
Metalmorphosis Studios
Modern Art Foundry
New York Quarries
Old Carolina Brick Co.
Painted Garden
Pellettieri Stonecarving
Portland Brownstone Quarries
Red Baron's Antiques
Red Hogan Enterprises, Inc.
Reed Bros.
Romantic Topiaries
Rossato Giovanni, snc
Sculptural Designs
Seibert & Rice, Inc.
Smith Bronzes
Steigerwald Sculpture
Surving Studios
Tuck, Travis
Vulcan Supply Corp.
Zelby Co.

SCULPTURE, STANDARD DESIGNS

Adobe Elegance
Architectural Pottery
Asian Artifacts
Brass Baron
Claycraft Fiberglass Planters Co.
Florentine Craftsmen
Fountain Crafts Mfg. Co.
Graney & Associates Metal Design
Great Gatsby's
Harvey Bronze Sculptures
Henri Studio, Inc.
Johnson Atelier
Lynch & Sons, Inc.
Mison Concepts, Inc.
Red Baron's Antiques
Reed Bros.
Rossato Giovanni, snc
Steigerwald Sculpture
Zelby Co.

SCULPTURE & CASTING SUPPLIES

JA Sculpture & Casting Supplies
Montoya/MAS Intnl., Inc.

SHELTER SYSTEMS, BUS STOPS, etc.

Alumet Building Products, Inc.
Bow House/BowBends
LaCor/Streetscape
Recreation Creations, Inc.

SIGNAGE & PLAQUES

Archicast
Architectural Bronze & Aluminum Corp.
Architectural Ornaments, Inc.
Best Sign Systems
Brookbrae Limited
Colonial Brass Co.
Designs in Tile
Durastone
Florentine Craftsmen
Geer & Co.
Gemini Inc.
Graney & Associates Metal Design
Lake Shore Industries
Maguire Iron Corp.
Old Carolina Brick Co.
Owen Pattern, Foundry & Mfg. Co.
Red Clay Tile Works
Reed Bros.
Schiff Architectural Detail
Sign Innovation
Sign of the Crab
Smith-Cornell/Alloy Founders
Steigerwald Sculpture
Stewart Ironworks Co.
Wausau Tile, Inc.

STAIRS, CAST

A&M Victorian Decorations, Inc.
J.G. Braun Co.
Concrete Shop, Inc.
Lynch & Sons
Stairways, Inc.
Stone Legends

STAIRS, METAL

American Ornamental Corp.
J.G. Braun Co.
Coe Studios, Inc.
Goddard Mfg.
Graney & Associates Metal Design
Indital, USA
Jefferson Mack & Associates
Metalmorphosis Studios
Stairways, Inc.
Steptoe & Wife Antiques, Ltd.
Texas Metal Industries, Inc.

STONE, ARTIFICIAL FORMATIONS

California Rockscape
Claycraft Fiberglass Planters Co.
Fountain Crafts Mfg. Co.
Guy Heavener, Inc.
Rockustics, Inc.
Stampcrete Decorative Concrete Inc.

STONE, BOULDERS

Blake's Wholesale Stone
Champlain Stone, Ltd.
Cold Spring Granite Co.
Connecticut Stone Supplies
Guy Heavener, Inc.
New York Quarries
Pava, Inc.
Portland Brownstone Quarries

STONE, CARVED

Asian Artifacts
Cold Spring Granite Co.
DMS Studios
Great Gatsby's
Limestone Concept, Inc.
Maine Millstones
New York Quarries
Pellettieri Stonecarving
Portland Brownstone Quarries
Red Baron's Antiques
Red Hogan Enterprises, Inc.
Rossato Giovanni, snc
Tierra y Sol

STONE, COBBLESTONES

Archean Granite
Cold Spring Granite Co.
Connecticut Stone Supplies
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Guy Heavener, Inc.
New York Quarries
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WRITE IN NO. 407

Buyer's Guide for Landscapes, Streetscapes & Gardens

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New York Quarries
Pava, Inc.
PAVE TECH/Probst

STONE, FLAGSTONE

Archean Granite
Blake's Wholesale Stone
Champlain Stone, Ltd.
Cold Spring Granite Co.
Connecticut Stone Supplies
Construction Resources
Custom Stone Supply
Echeguren Slate, Inc.
Guy Heavener, Inc.
New York Quarries
Pava, Inc.
PAVE TECH/Probst
Robinson Flagstone
Rocktile Specialty Products
Tierra y Sol

STONE, NATURAL

Blake's Wholesale Stone
Champlain Stone, Ltd.
Cold Spring Granite Co.
Connecticut Stone Supplies
Custom Stone Supply
Echeguren Slate, Inc.
Guy Heavener, Inc.
New York Quarries
Pava, Inc.
Pellettieri Stonecarving
Portland Brownstone Quarries
Rocktile Specialty Products, Inc.
Rossato Giovanni, snc
Tierra y Sol

SUNDIALS

Brookbrae Limited
Connecticut Stone Supplies
Designs in Tile
Florentine Craftsmen
Graney & Associates Metal Design
Great Gatsby's
Henri Studio, Inc.
Lynch & Sons, Inc.
New York Quarries
Red Baron's Antiques
Robinson Iron Corp.
Sign of the Crab
Smith-Cornell/Alloy Founders
Tuck, Travis

SWINGS

Labbe Co., M.R.
Centerville Swing Bench & Rocker Shoppe

TECHNICAL SERVICES & CONSULTING

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Color People
Halsted Welles Assoc.
Ornamental Metal Institute of N.Y

TILE, MOSAIC

Designs in Tile
Grajales Architectural Ceramics
McIntyre Tile
Nocera Art Tile Co.
Terra Designs
Tierra y Sol

TILE, PAVING

Ancor Granite Tile
Cold Spring Granite Co.
Connecticut Stone Supplies
Durastone
Echeguren Slate, Inc.
Gladding, McBean
Grajales Architectural Ceramics
London Tile Co.
New London Brick Works
PAVE TECH/Probst
Rocktile Specialty Products, Inc.
Seneca Tiles, Inc.
Tierra y Sol
Tropical Tiles

TILE, POOL & FOUNTAIN

Designs in Tile
Fountain Crafts Mfg. Co.
Grajales Architectural Ceramics
London Tile Co.
McIntyre Tile
New London Brick Works
Nocera Art Tile Co.
Rocktile Specialty Products, Inc.
Seneca Tiles, Inc.
Surving Studios
Tierra y Sol
Tile Restoration Center, Inc.

TOPIARY FRAMES

Kaviar Forge
Lynch & Sons, Inc.
Romantic Topiaries

TRASH RECEPTACLES

Architectural Pottery
Blake Industries
Brooks Barrel Co.
Doty & Sons Concrete Products
DuMor, Inc.
Duraform
Graney & Associates Metal Design
LaCor/Streetscape
Recreation Creations, Inc.
Robinson Iron Corp.
Sitecraft
Smith Co., John P.
Texacraft Outdoor Furnishings
Thomas Mfg. Co.
Trystan Products
Wausau Tile, Inc.

TREE GRATES

Campbell Foundry Co.
Graney & Associates Metal Design
Ironsmith, Inc.
Plastics Research Corp.
Trystan Products

TREE GUARDS

Campbell Foundry Co.
Graney & Associates Metal Design
Ironsmith, Inc.
Kirchner Industries
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TREILLAGE

Alumet Building Products, Inc.
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FrenchWyres
Graney & Associates Metal Design
Labbe Co., M.R.
Lake Creek Garden Features
Legi/Outerspace Landscape Furnishings
Mills & Co.
New Blue Moon Studio
Painted Garden
Plastics Research Corp.
Romancing The Woods
Smith & Hawken; Trade Sales Div.
Sycamore Creek
Trellis Structures
Walpole Woodworkers
Wood Innovations of Suffolk

TURNINGS, STONE

Portland Brownstone Quarries
Rossato Giovanni, snc

TURNINGS, WOOD

(see also the Columns Report on p. 16)
Adams Stair Works
Fagan Design & Fabrication
Fypon, Inc.
Josef's Art Wood Turning
LWO Corporation
Mad River Woodworks
Mohamad Wood Turning Co.
Pagliacco Turning & Milling
Woodwright Co.

WATERFALLS

Aquarius Waterworks, Inc.
Brass Baron
California Rockscape
Claycraft Fiberglass Planters Co.
Custom Cascades
Festive Fountains
Florida Falls
Fountain Crafts Mfg. Co.
Henri Studio, Inc.
L.I. Fountain Co.
New York Quarries
Pava, Inc.
Water Structures by Galaxy East Co.
Waterspirit Sculptures, Inc.
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WEATHERVANES

Allen Cupolas
Architectural Iron Designs, Inc.
Adornments for Architecture
Brookbrae Limited
Brumder Ornamental Iron, Inc.
Conant Custom Brass, Inc.
Denninger Cupolas & Weather Vanes
Dutch Product & Supply Co.
Eder Flagpole Co.
Florentine Craftsmen
Graney & Associates Metal Design
Ned James Architectural Metal
Kayne & Son Custom Hardware
Lynch & Sons, Inc.
Material Plane
Metalmorphosis Studios
Outhouse, The
Salt & Chestnut Weathervanes
Sign of the Crab
Smith & Hawken; Trade Sales Div.
Travis Tuck
Vulcan Supply Corp.

WOODWORK, EXTERIOR

Adams Stair Works & Carpentry
Allen Cupolas
Antique Building Material Co.
Architectural Products By Outwater
Beech River Mill Corp.
Brandt, Sylvan
Carlisle Restoration Lumber
Crown Heritage
Fagan Design & Fabrication, Inc.
Fypon, Inc.
Greenheart Durawoods, Inc.
Josef's Art Wood Turning
Lake Creek Garden Features
Mad River Woodworks
Mills & Co.
Mohamad Wood Turning Co.
Pagliacco Turning & Milling
Quality Fencing and Supply
Reed Bros.
Silverton Victorian Millworks
Walpole Woodworkers
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For full contact information on these companies, consult the SourceList on pp 100-116.

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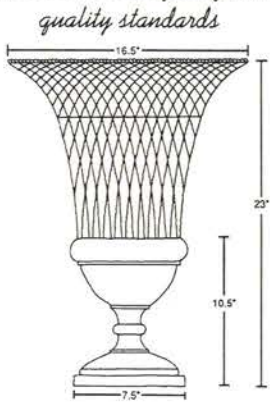

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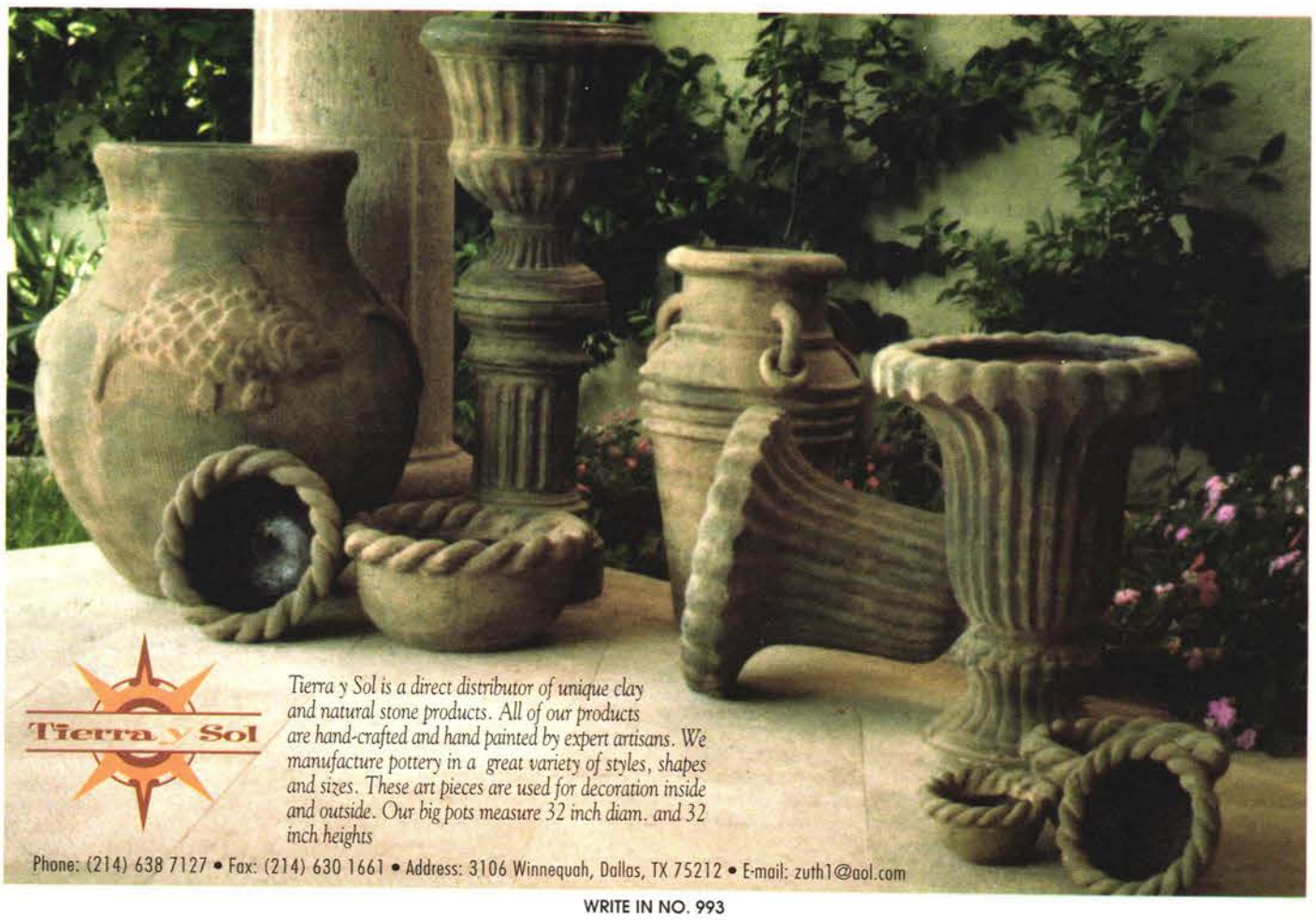

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Acorn Forged Iron **457 School St., Box 31** **Mansfield, MA 02048** **508-339-4500; Fax: 508-339-0104**	Major manufacturer of forged iron hardware in Early American styles, including a selection of fence and gate hardware. Large catalog of forged hardware items.	Free Write in No. 169
Adams Stair Works & Carpentry, Inc. **1083 S. Corporate Cir., Dept. TB** **Grayslake, IL 60030** **847-223-1177; Fax: 847-223-1188**	Complete millwork capabilities, including custom oak staircases. Manufacturing & installations of custom interior stair & railing systems. Stock parts also available.	Free Write in No. 61
Adkins Architectural Antiques **3515 Fannin St., Dept. TB** **Houston, TX 77004** **800-522-6547; Fax: 713-529-8253**	Fireplaces; cast iron and aluminum garden products: Street lights, urns, fountains, mailboxes, and furniture; iron fencing, gates, and bells; cast stone, concrete, and aluminum statuary; retail, wholesale, rental.	Free Write in No. 1
Adobe Elegance **Rt. 3, Box 37, Dept. TB** **Tererro, NM 87573** **505-757-2518; Fax: Same as phone**	Terra-cotta sconces in Southwestern motif: Cowboy boots, cowbosy hats, reptiles in relief, sunburst, etc.	Free
Adornments For Architecture **309 Hollow Rd., Dept. TB** **Staatsburg, NY 12580** **914-889-8390; Fax: 914-889-8350**	Ornamental metalwork for exterior or interiors, including finials, capitals, weathervanes, cresting, lightning rods, and windmills in aluminum, bronze, FRP, and sheetmetal.	Free Write in No. 749
Akzo Nobel Systems Co. **P.O. Box 1057, Dept. TB** **Enka, NC 28728** **704-665-5050; Fax: 704-665-5343**	Manufactures various products for erosion control and drainage applications.	Free
Allen Cupolas **2242 Bethel Rd., Dept. TB** **Lansdale, PA 19446** **215-699-8100; Fax: Same as phone**	Complete selection of cupolas from red cedar, redwood, or painted white pine. 4, 6, or 8-sided wood or metal cupolas with pagoda, bell, or hip roofs in copper, brass, or aluminum. Can be wired for lights.	Free Write in No. 79
Alumet Building Products, Inc. **227 Town East, Dept. TB** **Mesquite, TX 75185** **800-827-6045; Fax: 800-998-2898**	Manufacturers of sunrooms and passive solar rooms; lattice trellis systems.	Free
American Ornamental Corp. **P.O. Box 21548, Dept. TB** **Houston, TX 77226** **800-231-3693; Fax: 713-635-2386**	Manufacturers (for 32 yrs.) of spiral stairways in wrought iron, brass, bronze, aluminum, and stainless steel. The welded units have 88% hidden welds.	Free Write in No. 10
Ancor Granite Tile **435 Port Royal West, Dept. TB** **Montreal, Quebec, CAN. H3L 2C3** **514-385-9366; Fax: 514-382-3533**	Manufacturer of natural granite tile and modular panels for floors and walls, exterior use.	Free Write in No. 12
Antique Building Material Co. **3707 Fifth Ave., #324, Dept. TB** **San Diego, CA 92103** **619-233-1144; Fax: Same as phone**	Auctions of antique (18th to mid-20th century) garden and architectural items held in San Francisco or by appointment. Benches, fountains, statues, building facades, gates, urns, columns, stained glass, and more.	Write in No. 321
Aquarius Waterworks, Inc. **507 Farmers Mills Rd., Dept. TB** **Carmel, NY 10512** **914-225-0328; Fax: 914-228-0141**	Designers and builders of custom fountains, waterfalls, water effects, ponds, and streams. Restoration and repair of existing and antique structures and systems. Construction, consultation, video documentation.	Free Write in No. 90
Archean Granite **24 Campus Plaza, Dept. TB** **Edison, NJ 08837** **908-417-2212; Fax: 908-417-5141**	Natural granite products in various sizes and colors: Pavers (split and flame finish), cobblestones in various patterns in modular units; curb, stair treads, sills, risers, coping, plinth-wall caps; various colors, finishes, sizes.	Free Write in No. 312
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Architectural Facades Unlimited **1990 Stone Ave., Dept. TB** **San Jose, CA 95125** **408-298-2758; Fax: 408-297-8014**	Custom manufacturer of interior and exterior precast architectural ornament. On-site full-service drawings, patterning, moldmaking, casting of columns, balustrades, cornices, niches, mantels, and more.	Free Write in No. 147
Architectural Iron Designs, Inc. **167 Dey St., Dept. TB** **Jersey City, NJ 07306** **800-784-7444; Fax: 201-222-7767**	Distributors of a large selection of high-quality, hot-forged steel components for gates, fences, railings, balconies, grilles, furniture, and decorative accessories. Exclusive distributor for B. Rourke & Co.	Free Write in No. 795
Architectural Ornaments, Inc. **921 Winchester Ave., Dept. TB** **Kansas City, MO 64126** **816-241-3363; Fax: 816-241-3386**	Specialist in state-of-the-art moldmaking and casting techniques, including sculpture and custom ornamental elements; any design, shape, or color. Fountains, columns, balustrades, steps, pavers, etc.	Free Write in No. 96
Architectural Pottery **15161 Van Buren, Dept. TB** **Midway City, CA 92655** **714-895-3359; Fax: 714-898-5109**	Importers of Italian hand-carved sandstone, English style cast stone, handmade Italian and Greek pottery, and now, their own fiber-crete (FGRC).	Free Write in No. 2
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Art Research & Technology, Ltd. **3050 Industry Dr., Dept. TB** **Lancaster, PA 17603** **717-299-9333; Fax: 717-299-0149**	Foundry specializes in custom sculpture and architectural products for interior and exterior use. Works in small to monumental dimensions. On-site mold-making, conservation and installation services available.	Free Write in No. 170
Artcrete, Inc. **5812 Hwy. 494, Dept. TB** **Natchitoches, LA 71457** **318-379-2000; Fax: 318-379-1000**	Imprinted concrete cast-in-place paving; templates can be used to mask off mortar joints prior to coloring concrete.	Free Write in No. 214
Arte De Mexico **1000 Chestnut St., Dept. TB** **Burbank, CA 91506** **818-508-0993; Fax: 818-563-1015**	Eclectic mix of antique architectural elements, furnishings, and art from Mexico, Morocco, India, etc. Company also produces new items such as wrought ironwork, religious sculptures, hardware, and lighting.	Free
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Bamboo Fencer **31 Germania St., Dept. TB** **Jamaica Plain, MA 02130** **617-524-6137; Fax: 617-524-6100**	Fences, gates, trellises, arbors, pergolas, and paneling in bamboo; custom, Japanese, Chinese, and original designs. 'Good Neighbor' 6-ft. fence.	Free
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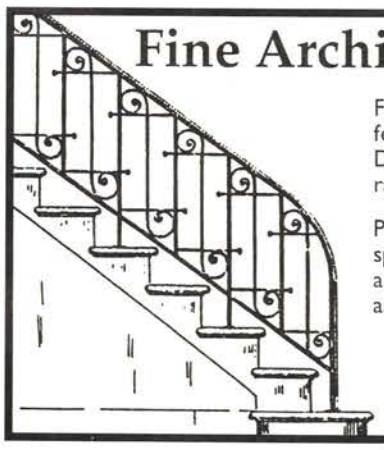

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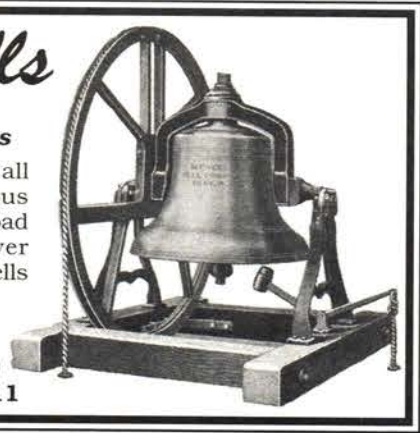

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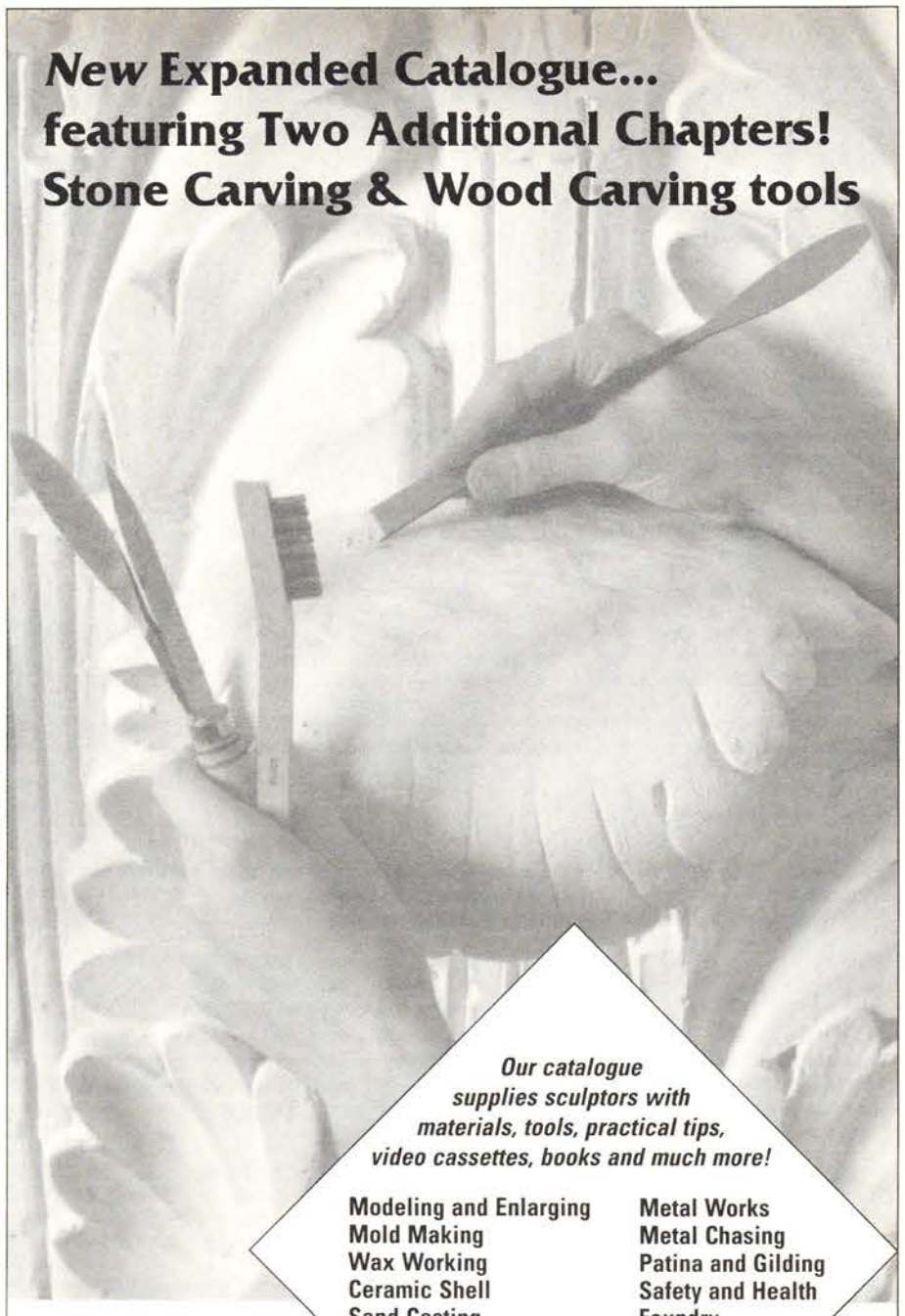

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Border Concepts, Inc. P.O. Box 471185, Ste. 100/110, Dept. TB Charlotte, NC 28247 704-541-5509; Fax: 704-541-5610	Manufactures steel edging systems for landscape and pavers.	Free
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Bow House /BowBends P.O. Box 900, Dept. TB Bolton, MA 01740 508-779-2271; Fax: 508-779-2272	Makers of exotic garden structures, including bridges, gazebos, arbors, follies, privies, trellage, and more.	Free Write in No. 345
Brandt, Sylvan 653 Main St., Dept. TB Lititz, PA 17543 717-626-4520; Fax: 717-626-5867	18th-and 19th-century building materials salvaged from old houses, grist mills, and barns, including hand-hewn logs, windows, doors, flooring, and paneling.	Free Write in No. 395
Brass Baron 10151 Pacific Mesa Blvd., #104, Dept. TB San Diego, CA 92121 800-536-0987; Fax: 800-536-0988	Solid-brass garden fountains and statuary, individually hand-cast by the lost-wax method; verdigris or bronze patina finishes.	Free Write in No. 20
Brass Light Gallery, Inc. 131 South 1st St., Dept. TB Milwaukee, WI 53204 800-243-9595; Fax: 414-271-7755	Designer/manufacturer of a wide range of interior and exterior lighting fixtures for both residential and commercial use. Stock and custom fixtures available.	Free Write in No. 889
Braun, J.G. Company P.O. Box 66, Dept. TB Skokie, IL 60076 800-323-4072; Fax: 847-674-1012	Architectural metal warehouse of brass/bronze, aluminum, and steel; extrusions, handrails, and accessories; stamped ornaments (husks, candle cups, etc.); forged ornaments; castings (rosettes, finials, etc.); hollow balls.	Free Write in No. 139
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Bruce Post Co., Inc. P.O. Box 332, Dept. TB Chestertown, MD 21620 410-778-6181; Fax: 410-556-6432	This company specializes in center drilling redwood, 4x4 in. and 6x6 in. and up to 14 ft. Custom turnings in traditional styles; also finials and porch posts.	Free Write in No. 141
California Redwood Assn. 405 Enfrente Dr., Ste. 200, Dept. TB Novato, CA 94949 415-382-0662; Fax: 415-382-8531	Non-profit trade association with generic information about redwood fences.	Free
California Rockscape 978 Amelia Ave., Dept. TB San Dimas, CA 91773 909-592-6213; Fax: 909-592-8659	Artificial rockwork and water features: Custom design and construction of lightweight GFRC rocks and water systems.	Free
Cambridge Pavers, Inc. P.O. Box 157, Dept. TB Lyndhurst, NJ 07071 201-933-5000; Fax: 201-933-5532	Interlocking concrete pavers and segmented retaining walls.	Free
Campbell Foundry Co. P.O. Box 515, Dept. TB North Haven, CT 06473 203-288-7584; Fax: 203-288-0660	Manufacturer and distributor of a full line of grates and tree guards, as well as yard drains and heavy-duty and light-duty roadway castings.	Free
Carlisle Restoration Lumber HCR 32, Box 556C, Dept. TB Stoddard, NH 03464 800-595-9663; Fax: 603-446-3540	Wide plank wood in old-growth eastern white pine, longleaf heart pine, red and white oak, cherry; hand-hewn beams; 30 years experience.	Free Write in No. 558
Centerville Swing Bench & Rocker Shoppe P.O. Box 211, Dept. TB Valencia, PA 16059 800-875-3724; Fax: No fax	Porch and garden swing specialists offer classic styles in cedar, cypress, oak, teak, and redwood. Also, hammocks, rockers, and benches.	Free Write in No. 116
Chadsworth's 1.800.Columns 277 N. Front St., Dept. TB Historic Wilmington, NC 28401 1-800-COLUMNS; Fax: 800-265-8667	Custom and stock columns, capitals, pilasters, and balustrades; interior and exterior; plain or fluted; round, square, octagonal, all sizes; wood, fiberglass, stone, and marble. Jobsite delivery. Worldwide shipping.	Free Write in No. 158 for Polystone and No. 18 for Wood
Chaenomeles, Inc. P.O. Box 7011, Dept. TB Dallas, TX 75209 214-249-6785; Fax: 214-826-1693	Handcrafted heavy-gauge copper mailboxes with rich patina; wall or post installations (one model with Art Deco handle); torch-cut house numbers; cast-bronze and machined brass decorative flag staff holders.	Free Write in No. 136
Champlain Stone, Ltd. P.O. Box 650, Dept. TB Warrensburg, NY 12885 518-623-2902; Fax: 518-623-3088	Stone from their six quarries in granite, quartzite, and limestone, for building veneer, wall stone, flagging, and ashlars, in various colors and textures.	Free Write in No. 427

COMPANY	SPECIALTY	Literature
City Visions/Heritage Garden Houses 311 Seymour St., Dept. TB Lansing, MI 48933 517-372-3385; Fax: 517-482-7304	Elegant functional component buildings in 15 meticulous historic styles, to be used as summer houses, tool sheds, gazebos, and conservatories; pergolas and colonades. Kits can be assembled within 2 days.	Free Write in No. 903
Cla-Val Co. P.O. Box 1325, Dept. TB Newport Beach, CA 92659 800-942-6326; Fax: 714-548-5441	Offers a complete line of automatic control valves for decorative fountains, irrigation, waterworks, fire protection, marine, and industrial applications. Sizes from 3/8 in. to 24 in. in a wide variety of materials.	Free
Classic Garden Ornaments 274 Glen Head Rd., Dept. TB Glen Head, NY 11545 516-676-6236; Fax: 516-759-8419	Classic resin reproductions of planters and garden ornaments collected from estates here and abroad; lighweight and durable, the pieces are used indoors and out. Custom work available.	Free Write in No. 180
Claycraft Fiberglass Planters Co. 807 6th Ave., Dept. TB New York, NY 10001 212-242-2903; Fax: 212-989-0844	For indoor or outdoor use: Fiberglass planters, urns, and decorative garden pieces that are reproductions of classic European designs. Also, imports an extensive line of ceramic planters.	Free Write in No. 182
CleForm Tool Company 4343 Easton Rd., Dept. TB Saint Joseph, MO 64503 816-233-4840; Fax: 816-233-4624	Landscape rakes, shovels, hoes, forks, scoops, striking tools, picks, mattocks, and more from this tool company.	Free
Coe Studios, Inc. 1214 Fourth St., Dept. TB Berkeley, CA 94710 510-527-2950; Fax: 510-527-0103	This metalsmith/mountaineer/naturalist does forging, hammering, repousse, and lost-wax castings in solid bronze and iron, with inspiration for his designs drawn from nature. Art Deco styles are a specialty.	Free Write in No. 83
Cold Spring Granite Co. 202 S. Third Ave., Dept. TB Cold Spring, MN 56320 800-328-5040; Fax: 320-685-8490	Supplier of domestically quarried granite for building facing (interior and exterior), paving, landscape areas, and industrial uses. Product line includes slabs, thin tile, and Tumblestone cobblestones made to look worn.	Free
Colonial Brass Company 29 Vine St., Dept. TB Middleboro, MA 02346 508-947-1098; Fax: 508-947-1039	Manufacturer of cast bronze and aluminum plaques, signs, and nameplates, including bas-relief work, sundials, and compass indicators.	Free Write in No. 302
Color People 1522 Blake St., Suite 300, Dept. TB Denver, CO 80202 303-534-4600; Fax: 303-534-1310	Create custom exterior color schemes for houses, businesses, Main Streets, and townscapes; consultation through photos via mail; some on-site consulting.	Free Write in No. 547
Conant Custom Brass, Inc. 270 Pine St., Dept. TB Burlington, VT 05401 800-832-4482; Fax: 802-864-5914	Custom manufacturing, production, design, restoration, and repair of lighting in all metals to builders'/architects' specs. Manufacturers of a traditional line of pendants, chandeliers, and sconces; many finishes and styles.	Free Write in No. 62
Concrete Shop, Inc. 1702 NE 99th St., Dept. TB Vancouver, WA 98665 360-573-5775; Fax: 360-574-3370	Architectural precast elements, both standard and custom designs, including balustrades, columns, stair treads, pavers, sculpture, planters, garden ornaments, and landscape furniture. Custom castings.	Free Write in No. 308
Connecticut Stone Supplies 138 Woodmont Rd., Dept. TB Milford, CT 06460 203-882-1000; Fax: 203-878-2094	Manufacturer, distributor, and importer of cobblestones, granite pavers, Indian slate, and French limestone; flagging, and fieldstone.	Free
Construction Resources Roofing 200 Broadhollow Rd., Dept. TB Melville, NY 11747 800-369-1418; Fax: 516-425-0535	Distributor of slate, roofing slate: Vermont Slate & Copper, Evergreen Slate, and more.	Write in No. 607 for slate and No. 190 for millwork
Copper Gardens P.O. Box 341, Dept. TB Rough & Ready, CA 95975 916-432-9598; Fax: 916-432-9599	Garden gates and garden elements, from stock or custom work.	Free Write in No. 677
Copper Sculptures 5230 Hwy 25, Dept. TB Brandon, MS 39042 800-235-6725; Fax: 601-992-7099	Company offers finely handcrafted copper lanterns, mailboxes, posts, and metal furniture.	Free Write in No. 30
Copperworks of Don Miller 206 S. Thomas, Dept. TB Orange, CA 92869 714-633-9308; Fax: Same as phone	Copper raingutters with ornate bronze brackets; curved gutter in any profile; goosenecks; collectors; cast bronze lotus flower Japanese chain waterways and cisterns, and other ornate Japanese chains.	Free Write in No. 200
Cover-Pools, Inc. 66 East 3335 South, Dept. TB Salt Lake City, UT 84115 801-484-2724; Fax: 801-484-2763	Automatic and manual swimming pool safety covers that keep out dirt, leaves, debris, and unwanted visitors; keep in heat, water, and expensive pool chemicals.	Free
Crown Heritage P.O. Box 5468, Dept. TB Lenoir, NC 28645 800-745-5931; Fax: 704-728-0022	Complete premium hardwood interior stair systems featuring roped, twisted, reeded, fluted, and octagon carving details. Exterior architectural products include box newels, handrails, and balusters in pine and redwood.	Free Write in No. 596
Custom Cascades 2222 Kansas Ave., Suite G, Dept. TB Riverside, CA 92507 800-420-3255; Fax: 909-686-1374	Designer/manufacturer of custom watefall/ waterflow devices, including manifolds, spill edges, fountain heads, and spillways. Unlimited sizes, including radius units; available in plastic, stainless steel, copper, and brass.	
Custom Stone Supply 124 SE 9th St., Unit 1, Dept. TB Bend, OR 97702 541-317-1840; Fax: 360-834-1104	Quarrier and importer of natural stone; cobblestones, flagstones, quarry tile, and granite pavers.	Free Write in No. 757

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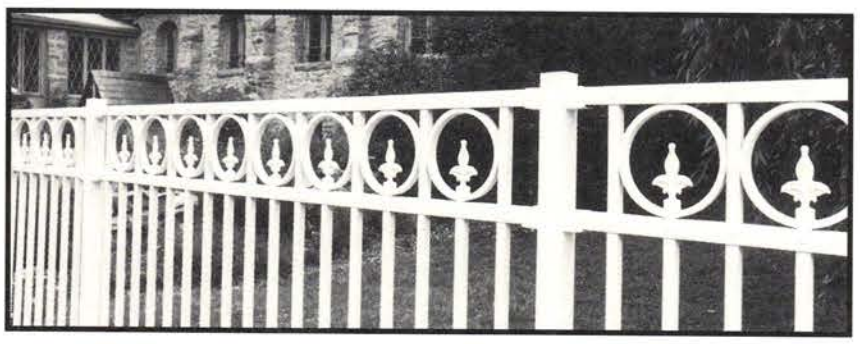

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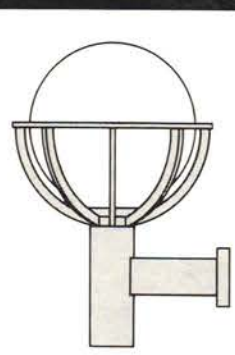

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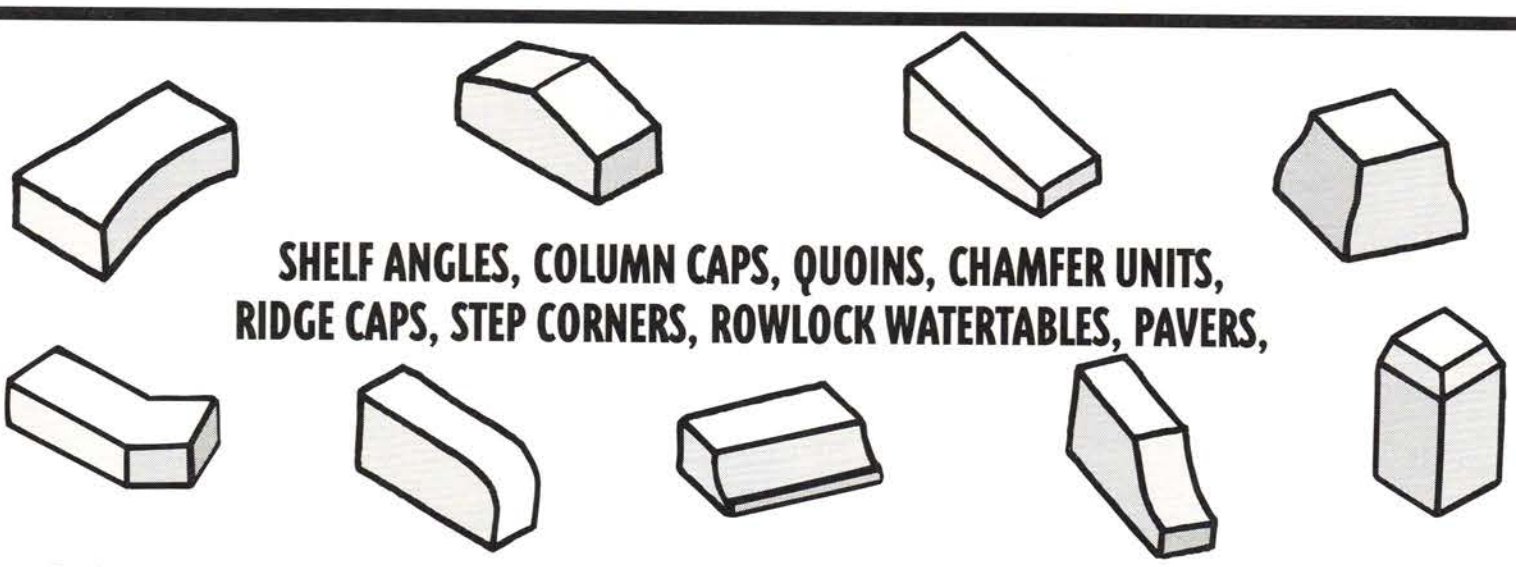

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COMPANY	SPECIALTY	Literature
D-Scan Gloster **P.O. Box 1067, Dept. TB** **South Boston, VA 24592** **800-932-2006; Fax: 804-575-0946**	Plantation teak furniture; kiln-dried timber, mortise-and-tenon joinery, solid brass fittings, with three basic thicknesses.	Free
Dalton Pavilions **20 Commerce Dr., Dept. TB** **Telford, PA 18969** **800-532-5866; Fax: 215-721-1501**	Designers and manufacturers of gazebos in several styles and sizes, starting at $3,100. Installation available, as are accessories like screening, benches, tables, deck railings. Also produces architectural birdhouses.	Free Write in No. 33
Denninger Cupolas & Weather Vanes **RD 1, Box 447, Dept. TB** **Middletown, NY 10940** **914-343-2229; Fax: 914-343-2229**	Extensive catalog of weathervanes, banners, arrows, caps, and finials in natural, patinated, or gilded finish. Historical replications a specialty.	Free
Design Associates **87 Willow St., Dept. TB** **New Haven, CT 06511** **203-497-8913; Fax: 203-497-8915**	Automated entrance gates to complement architecture and landscape, handcrafted in mahogany, teak, forged steel, aluminum, and stainless. State-of-the-art technology.	Free Write in No. 824
Designs in Tile **P.O. Box 358, Dept. TB** **Mt. Shasta, CA 96067** **916-926-2629; Fax: Same as phone**	Custom historic tiles and murals, suitable for interiors or exteriors, Victorian mosaic entries, Arts & Crafts style hand-decorated pavers, pools, fountains, floors, custom a specialty.	Free Write in No. 25
Dickson Elbertson Mills **P.O. Box 6107, Dept. TB** **Elberton, GA 30635** **706-283-3721; Fax: 706-283-7833**	'Diklon 32' acrylic fabric for awnings and other applications; 100 solids and striped designs.	Free Write in No. 608
DMS Studios **5-50 51st Ave., Dept. TB** **Long Island City, NY 11101** **718-937-5648; Fax: 718-937-2609**	Specializes in historically accurate, hand-carved marble and limestone fireplace mantels, and other architectural and landscape ornament and elements. Will design, sculpt, or fabricate anything in stone or metal.	Free Write in No. 910
Doty & Sons Concrete Products **1275 E. State St., Dept. TB** **Sycamore, IL 60178** **800-233-3907; Fax: 815-895-8035**	Concrete litter receptacles in over 34 styles, recycling receptacles, products using recycled plastic lumber; 17 bench styles, 40 sizes of planters, bollards, and table sets. Finishes include exposed aggregate, sandblast, colors.	Free Write in No. 209
DuMor, Inc. **P.O. Box 142, Dept. TB** **Mifflintown, PA 17059** **800-598-4018; Fax: 717-436-9839**	Site furnishings including benches, waste receptacles, urns, and planters. Offers custom manufacturing options.	Free
Duraform **1435 S. Santa Fe Ave., Dept. TB** **Compton, CA 90221** **800-823-1121; Fax: 310-761-1646**	Company produces fiberglass furnishings and accessories for interiors and exteriors: Planters, trash receptacles, ash urns, seating custom moldings.	Free Write in No. 184
Durastone **66 Milliken St., Dept. TB** **Portland, ME 04103** **207-797-3552; Fax: 207-797-3800**	Specialize in historical reproductions and custom architectural details, replicating granite, limestone, bluestone, and brownstone; ornamental arches, sills, and lintels; signage panels, watertables.	Free Write in No. 365
Dutch Product & Supply Co. **P.O. Box 269, Dept. TB** **Yardley, PA 19067** **215-493-4873; Fax: 215-493-4873**	Galvanized steel entrance gates and fencing; solid brass chandeliers for churches, synagogues, etc.; one, two, or three tiers. Genuine Delft fireplace tile.	Free Write in No. 314
Eaglebrook Products **2600 West Roosevelt Rd., Dept. TB** **Chicago, IL 60608** **312-638-0033; Fax: 312-638-2567**	Site amenities incorporate plastic lumber, along with sand-cast aluminum structural components.	Free
Echeguren Slate, Inc. **1465 Illinois St., Dept. TB** **San Francisco, CA 94107** **415-206-9343; Fax: 415-206-9353**	Importer and distributor of roofing and flooring slate. The company stocks approximately 50 different colors and can ship on short notice.	Free Write in No. 722
Eder Flagpole Co. **1000 W. Rawson Ave., Dept. TB** **Oak Creek, WI 53154** **800-558-6044; Fax: 414-764-1039**	Hand cast aluminum weathervanes in more than 50 types; colors include black enamel, pewter, gold bronze, or 23-K gold leaf. Replacement parts available.	Free Write in No. 429
Eide Industries,,Inc. **16215 Piuma Ave., Dept. TB** **Cerritos, CA 90703** **310-402-8335; Fax: 310-924-2233**	Traditional waterpipe frames of galvanized steel, traditional awning fabric patterns, custom striping, custom lettering, and logos.	Free
Elderhorst Bells, Inc. **875 Gravel Pike, Dept. TB** **Palm, PA 18070** **215-679-3264; Fax: 215-679-3692**	Manufacturers of tower clocks, street clocks, post clocks, and bell towers.	Free Write in No. 210
Environmental Protection, Inc. **P.O. Box 333, Dept. TB** **Mancelona, MI 49659** **800-OK-LINER; Fax: 616-587-8020**	PVC geomembrane liners for ponds, lakes, fountains, and water features; custom fabricated; installation available.	Free
Essex Works, Ltd. **843 Meeker St., Dept. TB** **Brooklyn, NY 11222** **718-218-8800; Fax: 718-218-8048**	Pattern and mold work done on-site; shop fabrication in GFRC, cast stone, and precast concrete.	Free Write in No. 720
Eve Vaterlaus **441 Buena Vista Rd., Dept. TB** **New City, NY 10956** **914-634-8412; Fax: 914-634-8412**	Cast bronze sculpture; torchieres, fountains, custom designs; stone and bronze tables; one-of-a-kind and limited editions.	Free
Fagan Design & Fabrication, Inc. **44 Railroad Ave., Dept. TB** **West Haven, CT 06516** **203-937-1874; Fax: 203-937-7321**	Custom hand-turned columns, cylinders, rope twists, and spirals. Also, capitals and other carvings. Exact duplicates for restoration; hardwoods a specialty.	Free Write in No. 821
Farrey's Lighting & Bath **1850 N.E. 146th, Dept. TB** **Miami, FL 33181** **305-947-5451; Fax: 305-940-0157**	Landscape lighting, lighting controls, and bath equipment, decorative hardware, and home furnishings for the Southeast region.	Free

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Federal Stone Industries **142 Water St., Dept. TB** **Thurmont, MD 21788** **301-271-7121; Fax: No fax**	Precast-concrete deck pavers, lintels, keystones, and copings; wall, bullnose, automatic pool cover coping, depth marker coping, drain systems, and bullnose brick coping for swimming pools and inground spas. Custom sizes.	Free Write in No. 234
Festive Fountains **61 St. Andrews Dr., Dept. TB** **Rochester, NY 14626** **716-225-0083; Fax: 716-225-2169**	Suppliers of water display equipment, including cascades and waterfalls, fountains, water-control devices, engineering, and consultation.	Free Write in No. 384
Fine Architectural Metalsmiths **P.O. Box 30, Dept. TB** **Chester, NY 10918** **914-651-7550; Fax: 914-651-7857**	Full metalworking capabilities; meticulous hand- and hot-forge work; restoration and new designs; authentic Art Deco lines, colors, and techniques in stainless, copper, brass, and iron.	Free Write in No. 264
Florentine Craftsmen **46-24 28th St., Dept. TB** **Long Island City, NY 11101** **718-937-7632; Fax: 718-937-9858**	Garden ornaments, fountains (freestanding and wall-mounted), statuary, furniture, and accessories in lead, aluminum, iron, stone, and bronze. Some custom work; weathervanes.	Free Write in No. 439
Florida Falls **10453 Tillery Rd., Dept. TB** **Spring Hill, FL 34608** **800-353-2557; Fax: 800-329-7331**	Manufacturers of patented 'sheeting' waterfall devices, rockfall liners, and other water-effect products for use in interior and exterior ponds, pools, fountains, and signs. Custom fabrication available.	Free
Flower Framers **671 Wilmer Ave., Dept. TB** **Cincinnati, OH 45226** **800-315-1805; Fax: 513-321-7269**	Fiberglass planter boxes in long lengths up to 12-ft.; sits flat or hangs easily; standard full-flow drainage system.	Free Write in No. 385
Focus Industries **14752 Sinclair Cir. #B, Dept. TB** **Tustin, CA 92680** **714-573-5800; Fax: 714-573-5807**	Complete line of 12 volt and 120 volt landscape lighting fixtures and power supplies utilizing today's most popular light sources.	Free
Fountain Crafts Mfg. Co. **2686 W. Patapsco Ave., Dept. TB** **Baltimore, MD 21230** **410-525-3344; Fax: 410-525-1606**	Engineers and manufactures fountain packages; product line includes nozzles, spray rings, pumps, strainers, filters, wind control devices, skimmers, water level controls, and lights.	Free
Four Seasons Sunrooms **5005 Veterans Memorial Hwy.** **Holbrook, NY 11741** **516-563-4000; Fax: 516-563-4010**	Wide variety of sunrooms, available with insulated glass and UV protection.	Free Write in No. 91
Freedom Forge **1505 Bulb Ave., Dept. TB** **Santa Cruz, CA 95062** **408-427-3422; Fax: 408-439-9024**	Fine-art metalwork combining hand-forged components, traditional joinery, and modern fabrication techniques this company calls 'architectural jewelry.'	Free Write in No. 265
FrenchWyres **P.O. Box 131655, Dept. TB** **Tyler, TX 75713** **903-597-8322; Fax: 903-597-9321**	Handmade wire garden furnishings made for permanent outdoor installations. Modern powder-coated finishes are applied to traditionally crafted wire products.	Free Write in No. 266
Front Range Precast Concrete **5439 N. Foothills Hwy., Dept. TB** **Boulder, CO 80302** **303-442-3207; Fax: 303-442-3209**	Manufactures custom designed precast concrete bridges for period accent in landscape design, such as the latest, a Scottish style bridge.	Free Write in No. 208
Fypon, Inc. **22 W. Pennsylvania Ave., Dept. TB** **Stewartstown, PA 17363** **800-537-5349; Fax: 717-993-3782**	Offers full line of molded architectural elements — over 3,500 items: Window features, turnings, columns, brackets, and more - in high-density polmer, and other polymers. New line of load-bearing polymer/steel columns.	Free Write in No. 617
Gaby's Shoppe **1311 Dragon St., Dept. TB** **Dallas, TX 75207** **214-748-6644; Fax: 214-748-7701**	Handcrafted wrought-iron furniture, tables, chairs, chandeliers, floor and table lamps, drapery hardware, stair rails, and fencing.	Free Write in No. 252
Garbe Fountains & Sculpture **130 Mulberry St., #6, Dept. TB** **New York, NY 10013** **212-925-8256; Fax:**	Sculptor produces unusual custom decorative fountains for public, commercial, and residential installations. Design subjects range from whimsical to commemorative.	Free
Geer & Co. **Route 22A, Dept. TB** **Bridport, VT 05734** **800-545-6677; Fax: 802-758-2492**	Hand-chiseled 23K goldleaf wooden and stone signs using historic methods like smalt, a black sand background. Signs for Main Street projects, entrance signs for historic towns and districts, and residential number signs.	Free Write in No. 933
Gemini Inc. **103 Mensing Way, Dept. TB** **Cannon Falls, MN 55009** **800-LETTERS; Fax: 507-236-4887**	Cast and flat cut-out metal letters and plaques, custom letters and logos, formed, flat cut, and injection molded plastic letters, changeable copy, theater marquee letters, and channel letters.	Free
Gladding, McBean Pottery **1345 Toleman Creek Rd., Dept. TB** **Ashland, OR 97520** **800-815-4462; Fax: 503-488-0779**	Manufactures architectural terra cotta; vitrified clay sewer pipe; clay roof tile; indoor/outdoor glazed garden pottery; chimney tops and caps; and structural, veneer, and glazed brick. Thousands of custom ornament orders filled.	Free
Glass House **553 Mine Brook Rd., Dept. TB** **Far Hills, NJ 07931** **800-222-3065; Fax: 908-766-8946**	Design, fabricate, and erect wood frame and insulated glass conservatories, solariums, glass roof systems, and skylights.	Free Write in No. 187
Goddard Mfg. **P.O. Box 502, Dept. TB** **Logan, KS 67646** **913-689-4341; Fax: 913-689-4303**	Custom-built spiral stairs in wood or steel; circular stairs in wood. Also, balusters, newels, and handrails. Steel stairs for interior or exterior.	Free Write in No. 478

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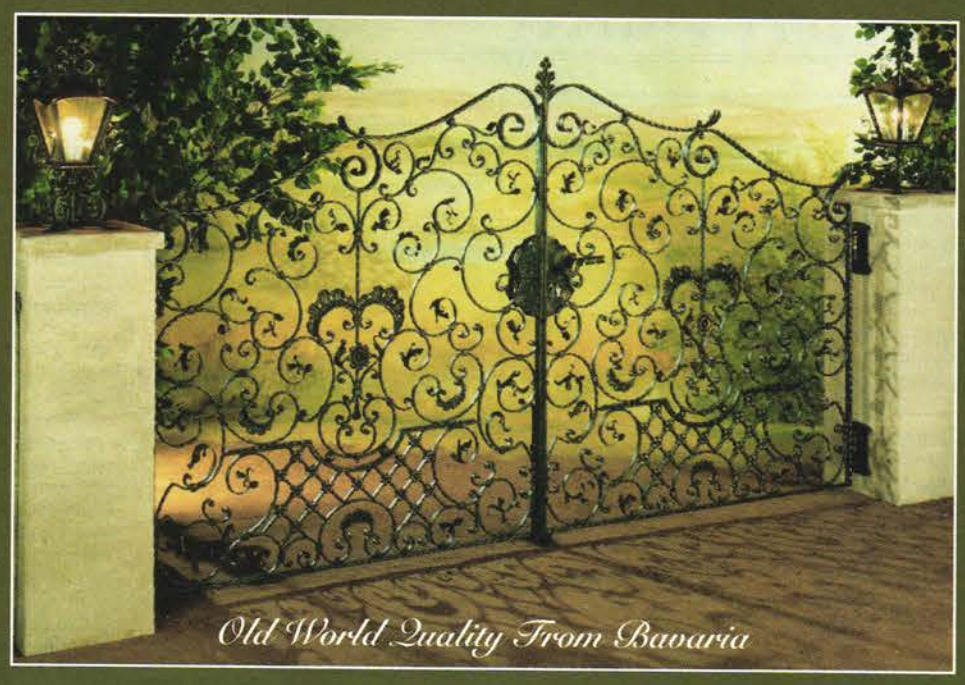

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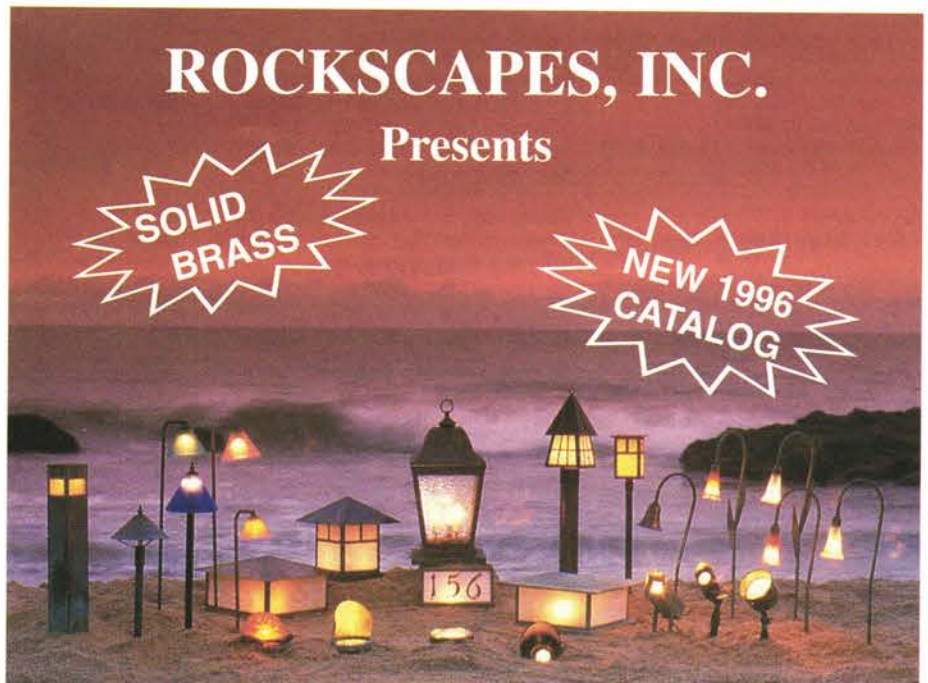

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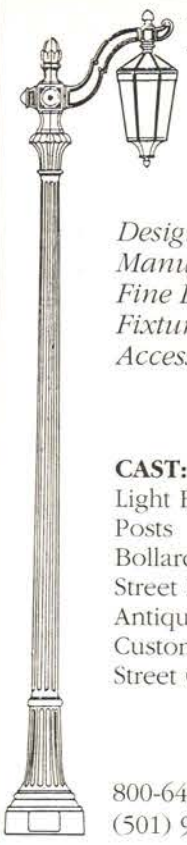
COMPILED BY LAURA R. ALLEN

COMPANY	SPECIALTY	Literature
Goodwin International 2915 Redhill Ave., Ste. D-101, Dept. TB Costa Mesa, CA 92626 800-600-3200; Fax: 714-241-1874	Landscape and garden oranments from around the world: Stone fountains, statues, planters, and terra cotta planters; GFRC planters, urns, benches, tables, and water features. Also, custom designs and finishes.	Free Write in No. 416
Gothic Arch Greenhouses Box 1564, Dept. TB Mobile, AL 36633 800-628-4974; Fax:	Classically designed greenhouses, available in hobby to commercial sizes; redwood with red cedar framing and polycarbonate glazing.	Free
Grajales Architectural Ceramics 667 Carroll St., Dept. TB Brooklyn, NY 11215 718-857-0729; Fax: Same as phone	Custom relief interior and exterior handcrafted ceramic tiles. Specializes in large formats, relief murals, mosaics. Custom fabrication for architects, artists, and designers.	Free
Graney & Associates Metal Design 7 North Ave., Dept. TB Garwood, NJ 07027 908-789-8500; Fax: 908-789-7606	Ornamental forged metalwork in classical and contemporary designs in various metals; gold leaf; exotic finishes. Railings, gates, entryways, furniture, lighting; design service; historical restoration.	Free Write in No. 484
Grayson Woodcarving & Design, Kelly 5111 Todd Rd., Dept. TB Sebastopol, CA 95472 707-829-7764; Fax:	Completely handmade/handcarved redwood garden furniture and accessories. Carved animals for finials, hose holders, planters, bird feeders, children's furniture, gates, arches, custom installations, and custom designs.	Free Write in No. 398
Great Gatsby's 5070 Peachtree Ind. Blvd., Dept. TB Atlanta, GA 30341 800-428-7297; Fax: 770-457-7250	Antique gallery and auction house with an ever-changing inventory of antique home furnishings, chandeliers, stained glass, entryways, fountains, gazebos, mantels, fine art, and statuary.	Free Write in No. 327
Greenheart Durawoods, Inc. 665 Rte. 9 N., P.O. Box 279, Dept. TB Bayville, NJ 08721 800-783-7220; Fax: 908-269-9797	Exotic hardwood decking, "Pau Lope" hardwood suited for benches, gazebos, walkways, fences, and flooring. Available in standard dimension lumber sizes and lengths. Fire- and scratch-resistant. Very durable.	Free Write in No. 814
Grinnell Concrete Paving Stones 482 Houses Corner Rd., Dept. TB Sparta, NJ 07871 201-383-9300; Fax: 201-383-3224	Produces 9 shapes of interlocking concrete paving stones in 9 standard earth-tone colors. Also offers color matching ability.	Free
Hanover Lantern 470 High St., Dept. TB Hanover, PA 17331 717-632-6464; Fax: 717-632-5039	Design-manufacturers of cast titanium/aluminum lighting fixtures, poles, bollards, and accessories for commercial, residential, and landscape lighting applications.	Free
HAPCO, Inc. P.O. Box 547, Dept. TB Abingdon, VA 24212 540-628-7171; Fax: 540-628-7707	Aluminum poles for highway, parking lot, residential, and street lighting and traffic control. Also carries flagpoles.	Free Write in No. 407
Hartford Conservatories 96 A Commerce Way, Dept. TB Woburn, MA 01801 800-963-8700; Fax: 617-937-9025	British-style, hardwood, year-round sunrooms designed to withstand harsh weather; many design options; professionally installed or do-it-yourself.	Free Write in No. 296
Harvey Bronze Sculptures Box 8, Rockland Rd., Dept. TB Rockland, DE 19732 302-656-7955; Fax: 302-656-7974	Realistic bronze sculpture created for outdoor and water environments. Commissions welcomed.	Full color catalog, $15
Heavener Supply, Inc. 480 School Ln., Dept. TB Harleysville, PA 19438 215-256-8861; Fax: 215-256-9987	Supplier to landscape professionals with many brands of concrete pavers, brick pavers, retaining walls, flagstone, and natural landscaping stone.	Free
Hennessy House Wooden Poles P.O. Box 57, Dept. TB Sierra City, CA 96125 800-285-2122; Fax: 916-862-0125	Handmade, old-style wooden flagpoles, nautical-style poles, and wooden street lamp poles up to 40 ft. All accessories. Poles lower for maintenance; high axial strength construction guaranteed to 90 mph; ships anywhere.	Free Write in No. 118
Henri Studio, Inc. 1250 Henri Dr., Dept. TB Wauconda, IL 60084 847-526-5200; Fax: 847-526-6782	Large designer/manufacturer of cast stone fountains, statuary, birdbaths, planters, and garden ornaments. Also, a complete line of water gardening products, including pre-formed ponds, flexible liners, nozzles, filters, and more.	Free Write in No. 263
Heritage Vinyl Products Hwy. 45 Bypass, P.O. Box 460, Dept. TB Macon, MS 39341 800-736-5143; Fax: 601-726-4054	Major manufacturer of vinyl fencing designed for high impact, weather resistance, and zero maintenance. Over 26 styles, from residential pickets with Gothic caps to post and rail ranch fencing. Also, trellises and picnic tables.	Free
Herwig Lighting P.O. Box 768, Dept. TB Russellville, AR 72811 800-643-9523; Fax: 501-968-6422	Hand-crafted original designs; cast aluminum or bronze; exterior, residential, commercial, and municipal lighting fixtures; wall brackets, pendants, pier or post lanterns; street clocks, bollards, benches; restoration and custom.	Free Write in No. 913
Higgins Brick 1845 S Elena Ave, Box 7000-167, Dept. TB Redondo Beach, CA 90277 213-772-2813; Fax: 310-540-0619	"Renaissance" brick paving, flexible paving systems; complete line of brick veneer and pavers; thin brick and bullnose.	Free Write in No. 902
Hilltop Slate Co. Route 22A, Dept. TB Middle Granville, NY 12849 518-642-2270; Fax: 518-642-1220	New York-Vermont natural roofing slate and flagstones in all colors and sizes; semi-weathering and unfading shades. Specialists in color matching and roofing slate for restoration.	Free
Hinkley Lighting 12600 Berea Rd., Dept. TB Cleveland, OH 44111 216-671-3300; Fax: 216-671-4537	Interior and exterior lighting fixtures for 75 years: Post lights, lanterns, garden lighting, sconces, pendants, and chandeliers in a wide range of finishes.	Free Write in No. 68

COMPANY	SPECIALTY	Literature
Historical Arts & Casting Inc. 5580 W. Bagley Pk. Rd., Dept. TB West Jordan, UT 84088 800-225-1414; Fax: 801-280-2493	Expertly crafted lighting and metal ornament, including cornices, railings, store fronts, fences, newels, planters, finials, street furnishings, and fountains, in bronze, aluminum, or cast iron. Restoration and custom work.	Free Write in No. 121
Hobbs, William, Ltd. 3786 Dekalb Technology Pkwy, Dept. TB Atlanta, GA 30340 770-457-3000; Fax: 770-457-4225	Thirty years of designing, engineering, and manufacturing architectural fountains. Provides mechanical and electrical equipment for complete system. Products include underground pump vaults, lights, jets, level control, and more.	Free
Home & Garden Ornaments RR1 Box 2434, Dept. TB Windsor, ME 04363 207-445-3598	Design and cast architectural elements and garden ornament in cement; free-standing and wall-plaques; range of colors; also, one-of-a-kind installations and designs.	Free
Hunt Stained Glass Studios 1756 W. Carson St. Pittsburgh, PA 15219 412-391-1796; Fax: 412-391-1560	Custom design and fabricated resin cast bronze or wood fonts and life-size sculpture; painted murals; liturgical, commercial, residential custom designed and/or beveled glass windows, door lites, side lites, transoms, skylights, medallions.	Free Write in No. 330
Indital, USA P.O. Box 21018, Dept. TB Houston, TX 77226 800-772-4706; Fax: 713-694-2055	Over 4,000 Italian designed architectural steel forgings: Signature rosettes, intricately designed baroque leaves, spears, and a full array of pickets that can be fabricated to create staircases, partitions, window grilles, etc.	Free Write in No. 656
Innovative Concrete Design Corp./ICD 3934 N. Ridgefield Cir., Dept. TB Milwaukee, WI 53211 414-962-4065; Fax: 414-332-9678	StoneWall Select is a dry stacked, light-weight retaining wall system made of high-strength concrete. Modules have natural hewn stone appearance; variety of integral colors.	Free
Intermatic Prof. Landscape Lighting Intermatic Plaza, Dept. TB Spring Grove, IL 60081 815-675-2321; Fax: 815-675-2112	Low voltage landscape lighting.	Free
Interstate Brick 9780 South 5200 West, Dept. TB West Jordan, UT 84088 800-233-8654; Fax: 801-565-5220	Custom brick masonry products; face brick, thin brick, structural brick, paver brick, and pool coping.	Free
Invisible Structures 14704-D East 33rd Pl., Dept. TB Aurora, CO 80011 800-233-1510; Fax: 303-233-1522	For grass drives and parking areas; prevents compaction of turf and a strong, stable, driveable surface with grass.	Free
Ironsmith, Inc. P.O. Box 1141, Dept. TB Palm Desert, CA 92261 800-338-4766; Fax: 619-776-5080	12 patterns of cast-iron tree grates that meet ADA requirements for pedestrian safety. Also, cast-iron bollards, steel tree guards, trash receptacles, and trench gates in iron, aluminum, and bronze.	Free Write in No. 900
Island Arbors 63 3rd Ave., Dept. TB Bay Shore, NY 11706 516-968-6852; Fax: 516-968-6928	Wood arbors and garden gateways and entrances handcrafted from red cedar.	Free Write in No. 426
J.A. Nearing Co. 9390 Davis Ave., Dept. TB Laurel, MD 20723 800-323-6933; Fax: 301-497-9751	Manufacture and install greenhouses.	Free
JA Sculpture & Casting Supplies 60 Ward Ave. Ext., Dept. TB Mercerville, NJ 08619 609-936-7204; Fax: 609-936-7206	Supplies moldmaking materials, tools, and other products for sculpture production.	Free Write in No. 380
James, Ned -- Architectural Metal 83 Scott Rd., Dept. TB Ashfield, MA 01330 413-625-2625; Fax: 413-625-0190	Custom blacksmithing and coppersmithing (especially complex jobs requiring different techniques): Lanterns, chandeliers, door hardware, furniture, grilles, gates, railings. Also, restoration work.	Free Write in No. 306
Jaz Products 1212 E. Santa Paula St., Dept. TB Santa Paula, CA 93060 805-525-8800; Fax: 805-525-8808	Planters made from polyethylene plastic are durable and lightweight, and have the look of terra cotta. Other colors available.	Free Write in No. 317
Jefferson Mack & Associates P.O. Box 884103, Dept. TB San Francisco, CA 94188 415-550-9328; Fax: 415-285-3365	Hot-forged, hand-finished architectural metalwork: Railings, grilles, gates, fences. Also, custom iron furniture, garden torches, chandeliers, more.	Free
Johnson Atelier 60 Ward Ave. Ext., Dept. TB Mercerville, NJ 08619 609-890-7777; Fax: 609-890-1816	Design consultation, pattern development, custom modeling, enlargements, moldmaking; lost-wax and sand casting for bronze, aluminum, and ductile iron. Fabrication in most metals. Restoration; delivery; installation.	Free Write in No. 733
Josef's Art Wood Turning 71 Sewell St., Dept. TB Hempstead, NY 11550 516-489-3080; Fax: 516-489-3148	Wood columns; interior or exterior; load-bearing or not; fluted, reeded, roped and carved styles. Also posts, balusters, table & chair legs, and other turnings, custom or production; hand rails, moldings, balls, dowels & rosettes.	Free Write in No. 31
Kasco Marine, Inc. 1925 Quinlan Ave. South, Dept. TB Lakeland, MN 55043 612-436-7611; Fax: 612-436-6734	Floating display aerators; environmentally-friendly way to improve water quality; oxygenation allows for higher levels of beneficial microorganisms that accelerate decomposition.	Free
Kaviar Forge 147 Stevenson Ave., Dept. TB Louisville, KY 40206 800-500-3890; Fax: 502-561-0377	Forge metal design and fabrication; lighting, gates, architectural elements, furnishings; have own line and do custom work, can quote from drawings.	Free Write in No. 984



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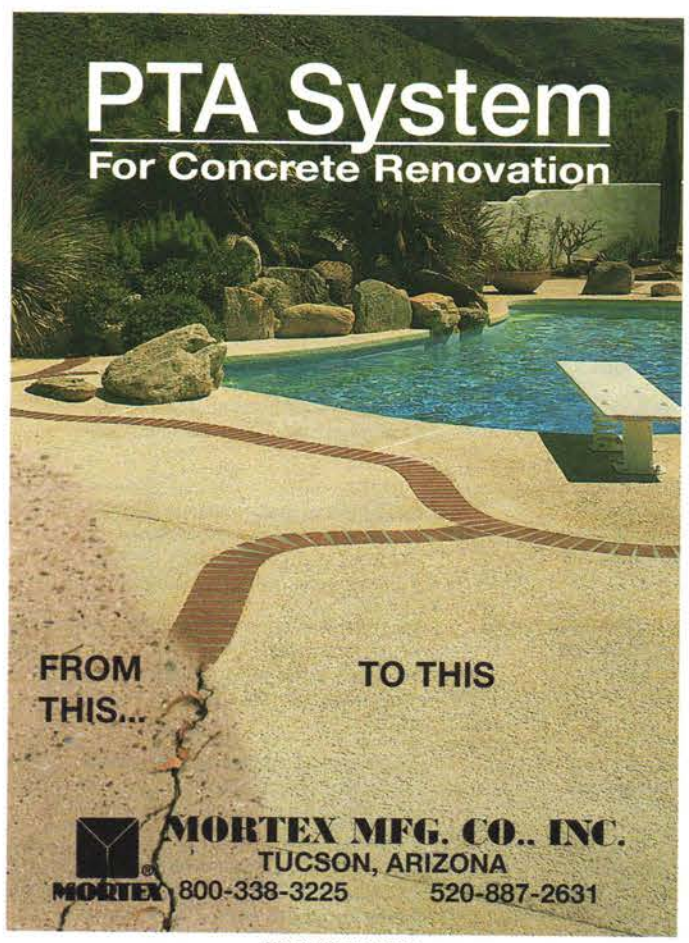

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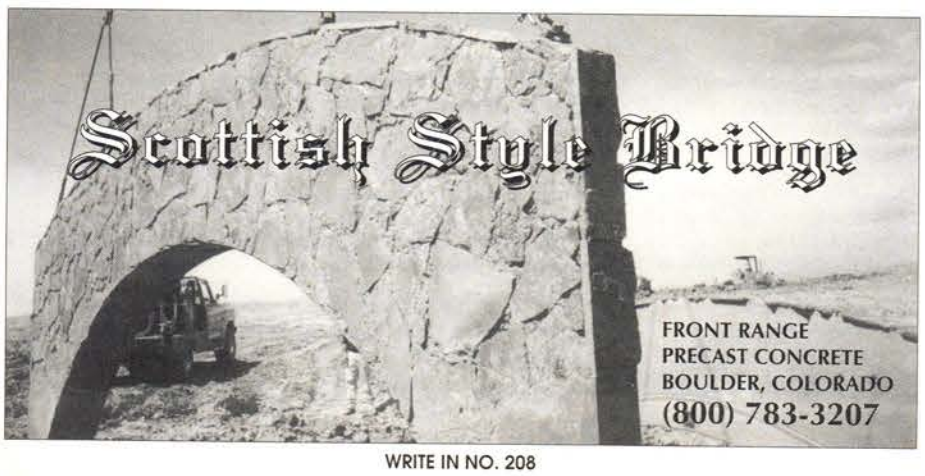

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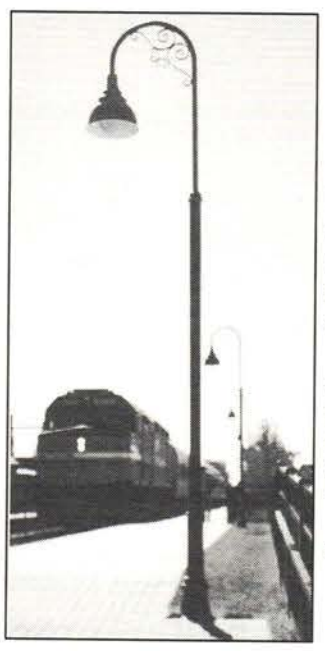

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COMPANY	SPECIALTY	Literature
Kaylien, Inc. P.O. Box 711599, Dept. TB Santee, CA 92072 800-748-5627; Fax: 619-448-5196	Waterproof fiberglass gates and doors in a variety of designs; authentic reproductions or modern designs. Wood grain-look gates.	Free
Kayne & Son Custom Hardware 100 Daniel Ridge Rd., Dept. TB Candler, NC 28715 704-667-8868; Fax: 704-665-8303	Custom hand forging of ferrous and non-ferrous metals; custom sand casting of brass and bronze. Curved and straight strap hinges, Norfolk & Suffolk thumb latches and locks, drop & surface bolts; special fasteners and hasps.	Free Call for information.
Keep In Touch/Villager Storm Window 30 Lafayette Sq., Ste. 118, Dept. TB Vernon, CT 06066 800-569-9075; Fax: 860-872-3468	Distributors of 'The Villager Window,' an 'invisible' storm window designed for Old Sturbridge Village.	Free
Key Cast Stone, Inc. 18-31 42nd St., Dept. TB Astoria, NY 11105 718-274-5195; Fax: 718-274-2703	Cast stone and precast concrete elements, including cornices, moldings, columns and capitals, balustrades, brackets, and more.	Free
King Luminaire Co. P.O. Box 266, Dept. TB Jefferson, OH 44047 800-268-7809; Fax: 905-632-8116	Period lighting fixtures with cast ductile iron poles, and decorative concrete poles and bollards in a variety of colors. Acorn luminaires are available in polycarbonate or acrylic.	Free Write in No. 341
Kirchner Industries 12901 St. Charles Rock Rd., Dept. TB Bridgeton, MO 63044 800-264-8700; Fax: 314-291-0265	Romanstone concrete pavers, Versa-Lok retaining walls, architectural precast, Evercrete concrete fences, Kentucky rail concrete fence, bollards, and more, through Midwest distributors.	Free
Kramer Brothers P.O. Box 255, 17 Dell St., Dept. TB Dayton, OH 45404 513-228-4194; Fax: Same as phone	Cast iron garden furniture and ornament cast from original 19th Century patterns. Decorative Victorian and Art Nouveau designs for the home and garden.	Free
La Haye Bronze Architectural P.O. Box 2319, Dept. TB Corona, CA 91718 800-523-9544; Fax: 909-734-9846	This company has been producing custom signage and metalwork for over 150 years in cast bronze and aluminum. Services include designs and pattern making.	Free Write in No. 916
Labbe Co., M.R. PO Box 467, Dept. TB Biddeford, ME 04005 207-282-3420; Fax:	Handcrafted wood products: Arbors, trellis, porch swings, cold frames, and custom work.	Free
LaCor/Streetscape 8611 N. Black Canyon Hwy; Ste. 216 Phoenix, AZ 85021 602-995-9272; Fax: 602-995-0928	Manufacturer of quality landscape furniture that combines bent pipe and perforated steel to create transit shelters, seating elements, trash receptacles, and streetscape accessories.	Free
Lake Creek Garden Features, Inc. P.O. Box 118, Dept. TB Lake City, IA 51449 712-464-8924; Fax: 712-464-3098	Manufacturers of cedar architectural features for the garden, patio, landscape or streetscape; planter boxes, obelisks, plant stands, and gazing globe stands. Custom work invited.	Free Write in No. 364
Lake Shore Industries P.O. Box 59, Dept. TB Erie, PA 16512 800-458-0463; Fax: 814-453-4293	Manufacturers of custom cast aluminum signs and plaques. Specialize in street signs, town seals, historical markers, and custom work.	Free Write in No. 873
LampLight Industries/ Renaissance Design Center 486 First St., Dept. TB Solvang, CA 93463 805-688-6222; Fax: 805-686-4044	High quality, full-scale authentic street lamps, wall lanterns, bollards, poles, and custom fixtures in cast iron and steel, or aluminum. Traditional street clocks, towers clocks, and public clocks made to order.	Free Write in No. 647
LaRocca Sculpture 66 Chester Rd., Dept. TB Belmont, MA 02178 617-489-4997; Fax: Same as phone	Original figurative sculpture in cast bronze.	Free Write in No. 363
LeQuire, Alan - Sculptor 1222 Fourth Ave. No., Dept. TB Nashville, TN 37208 615-242-5408; Fax: 615-367-4525	A figurative sculptor and portrait artist, LeQuire's themes focus on the classical and Renaissance. Monumental, miniature, and life-sized work.	Free Write in No. 523
Liberty Brass Turning Co., Inc. 38-01 Queens Blvd., Dept. TB Long Island City, NY 11101 718-784-2911; Fax: 718-784-2038	Thousands of solid-brass and aluminum turned-metal parts: Lamp finials, couplings, spacers, balls, check rings, furniture, and display fittings. Custom parts; large and small orders.	Free Write in No. 844
Liberty Die Casting Co. 872 E. Trevitt St., Dept. TB Bryan, OH 43506 800-636-5470; Fax: 419-636-2365	Makes a wide line of ball tops, caps, spears, shoes, etc., for fabricating fences, gates, and other ornamental metal assemblies. Parts available in sizes from 1/4 in. to 3 in. in #3 zinc with a non-rusting pewter finish.	Free Write in No. 534
Lighting by Hammerworks 6 Fremont St., Dept. TB Worcester, MA 01603 508-755-3434; Fax: No fax	Handmade Colonial reproduction lighting fixtures: Chandeliers, wall sconces, wall and post lanterns made in copper, brass, and tin. Also, hand-forged door hardware, shutter hinges and dogs, slide bolts; exact reproductions.	Free Write in No. 509
L.I. Fountain Co. 10-2 Drew Ct., Dept. TB Ronkonkoma, NY 11779 516-467-5115; Fax: 516-467-5295	Suppliers of prefabricated fiberglass bowl fountains, fountain pumps and nozzles, and designers of complete fountain effects.	Free Write in No. 499
Limestone Concept, Inc. 13416 Estrella Ave., Dept. TB Gardena, CA 90248 310-329-9885; Fax: 310-329-9903	Fabrication of limestone architectural pieces carved in the French tradition, from Gothic to contemporary styles. Products include fireplaces, fountains, columns, moldings, benches, balusters, and statuary. Imported tile and French limestone.	Free Write in No. 539
Little Tikes Commercial Play Systems P.O. Box 897, Dept. TB Farmington, MO 63640 314-756-4591; Fax: 573-756-0319	Commercial playground systems and park service equipment in steel, plastic, and recycled materials.	Free

COMPANY	SPECIALTY	Literature
:L:M:N:O: Arts 675 Pleasant Valley Rd., Dept. TB Aptos, CA 95003 408-728-3998; Fax: No fax	Designs and produces architectural and sculptural birdbaths; birdfeeders, garden gates, posts, and arches; materials include steel, glass, cast concrete, and redwood.	Free
Lohr Studio 604 Hill St. Churdan, IA 50050 515-389-3210; Fax: 515-389-3401	Realistic and stylized sculptor of figurative and imaginative works. Available materials include one-of-a-kind ceramic and stone pieces, as well as edition works in bronze, aluminum, and cold cast stones.	Free Write in No. 434
London Tile Co. 65 Walnut St., Dept. TB New London, OH 44851 419-929-1551; Fax: 419-929-1552	Glazed and unglazed floor, wall, and counter tiles. Tiles 3/8 in. thick, shipped in 10 sq.ft. packages with a 3/8 in. mortar joint. Pavers manufactured in 3/8 in. up to 1-1/2 in. thick; palettes are blues, greens, browns, and white.	Free Write in No. 50
Loran, Inc. 1705 E. Colton Ave., Dept. TB Redlands, CA 92374 909-794-2121; Fax: 909-794-7292	'Nightscaping' is a line of safe, efficient 12-volt outdoor lighting. Manufacturers of standard and custom lighting fixtures and transformers. Finishes include powder-coating over steel, aluminum, natural copper, and verdigris.	Free
Lunaform P.O. Box 189, Dept. TB Sullivan, ME 04664 207-422-0923; Fax: 207-422-0923	Studio specializes in handmade, all-weather garden planters, bowls, urns, and fountains; made of steel-reinforced concrete hand-turned on large wheels; smooth and rough finishes.	Free Write in No. 762
LWO Corporation P.O. Box 17125, Dept. TB Portland, OR 97217 503-286-5372; Fax: 503-286-4092	Specialty wood products; lattice products; interior wood paneling; garden accents; arbors, trellises, fencing, pickets, deck accessories.	Free Write in No. 699
Lynch & Sons, Inc. P.O. Box 488, Dept. TB Wilton, CT 06897 203-762-8363; Fax: 203-762-2999	Top-of-the-line fabricators with an extensive catalog of fountain designs, garden ornament, site furniture (including full park-bench manufacturing capabilities), weathervanes, finials, gazebos. Custom capabilities.	Free Call for information.
Maas-Rowe Carillons, Inc. 2255 Meyers Ave., Dept. TB Escondido, CA 92029 800-854-2023; Fax: 619-747-2677	Tower clocks, architectural bell shells, chimes, bells, carillons, and digital electronic carillon systems.	Free
Mad River Woodworks P.O. Box 1067, 189 Taylor Way Blue Lake, CA 95525 707-668-5671; Fax: 707-668-5673	Full line of Victorian millwork and turned products, including fancy-butt shingles, gingerbread, balusters, finials, corbels, moldings, and screen doors. Products primarily manufactured in redwood.	Free Write in No. 267
Maguire Iron Corp. 215 22nd St., Dept. TB Richmond, CA 94801 510-234-7569; Fax: 510-232-7519	Door and window hardware, push plates, kick plates, hooks, etc., in wrought iron, pewter, brass, bronze, and much more. Custom fabrication.	Free Write in No. 760
Maine Millstone P.O. Box 228, Dept. TB West Southport, ME 04576 207-633-6091	Manufacturer of hand-carved traditional granite millstones; all sizes and patterns available; for landscape use.	Free Write in No. 444
Master-Halco, Inc. 110 E. La Habra Blvd., Dept. TB La Habra, CA 90631 310-694-5066; Fax: 310-691-4686	Industrial ornamental iron fencing and PVC fencing.	Free
Material Plane 577 Sixth Ave., Dept. TB San Francisco, CA 94118 415-752-5156; Fax: 415-750-1707	Custom lighting design and manufacture using hand forging and hammering; most of the work is in bronze.	Free
McIntyre Tile 55 W. Grant St., Dept. TB Healdsburg, CA 95448 707-433-8866; Fax: 707-433-0548	Full custom capabilities for ceramic tiles: Murals, cut tile, mosaics; over 200 colors. High-fired stoneware or porcelain is frostproof and will not crack.	Free
Melton Classics P.O. Box 465020, Dept. TB Lawrenceville, GA 30246 800-963-3060; Fax: 770-962-6988	Classically correct architectural columns and balustrades; 10-year warranty redwood columns, stain-grade hardwood columns, and marble composite columns. DuraClassic poly-resin columns & poly-resin marble composite balustrades.	Free Write in No. 410
Merchants Metals, Inc. 515 W. Greens Rd. #710, Dept. TB Houston, TX 77067 800-254-0080; Fax: 713-876-1648	Merchants Metals manufactures hot-dipped galvanized and vinyl coated chain link fence systems; distributor of wood, vinyl, ornamental, and aluminum fence systems.	Free
Metalmorphosis Studios 6123 Ridge Rd., Dept. TB Sodus, NY 14551 315-483-6189; Fax: Same as phone	Sculptor, metalsmith, and staff create forged, fabricated, and cast bronze architectural metalwork, sculpture, furniture, and accessories in all architectural metals. Contemporary design, historic, and liturgical metalwork.	Free Write in No. 119
Michael Ashford Design, Inc. 6543 Alpine Dr. S.W., Dept. TB Olympia, WA 98512 360-352-0694; Fax: Same as phone	Designer and fabricator of hand-hammered copper and mica lighting fixtures in Arts & Crafts style (original designs and reproductions). Also, oak and slag-glass lamps.	Free Write in No. 503
Michael Bentley Enterprises 1915 Brush Run Rd., Dept. TB Avella, PA 15312 412-345-3601; Fax: Same as phone	Chimney pots, Victorian antiques, European and American. Use on chimneys, ornamental planters, or as lighting; also ornate European cast gutter collectors.	Free Write in No. 41
Mills & Company P.O. Box 15, Dept. TB Bovina Center, NY 13740 607-832-4361; Fax: 607-832-4608	Custom built planters, pergolas, and trelliswork in traditional designs, using teak, cedar, and mahogany.	Free Write in No. 667

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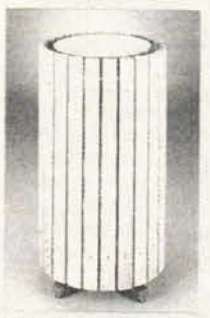

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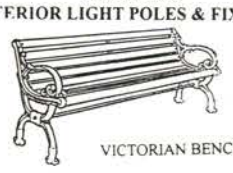

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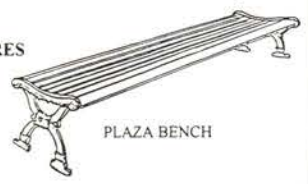

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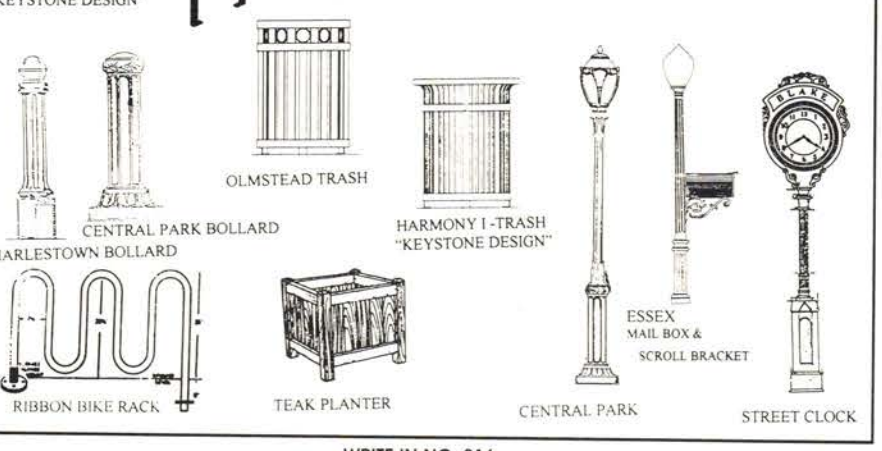

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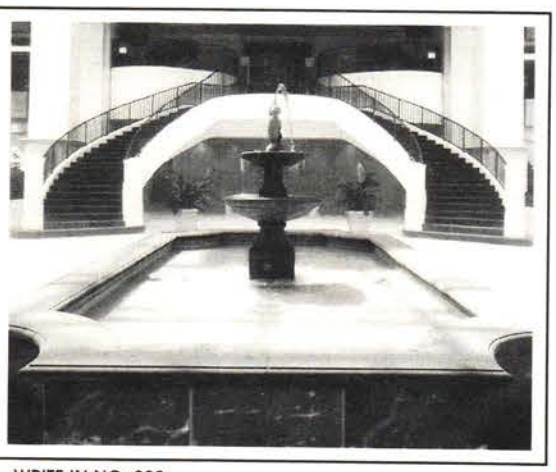

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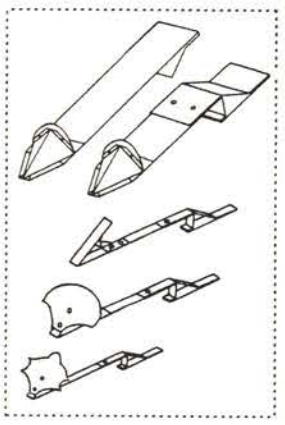

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Romancing The Woods 33 Raycliffe Dr., Dept. TB Woodstock, NY 12498 914-246-6976; Fax: 914-246-1021	Re-creators of rustic garden and woodland structures, made of Eastern red cedar in the romantic tradition of 19th century English and French estate gardens, and the Adirondack camps.	Free Write in No. 501

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Rossato Giovanni, snc P.O. Box 524, Dept. TB 36100 Vicenza ITALY 39-444-928499; Fax: 39-444-928711	Classic statues, fireplaces, consoles, columns, bench-seats, balls, pineapples, balustrades, fountains, vases, and more, hand-carved in Vicenza stone.	Free Write in No. 611
Ruffner & Co. P.O. Box 459, Dept. TB Altus, OK 73522 405-482-4600; Fax: No fax	Company produces elegant metal birdcages in limited editions or custom designs.	Free Write in No. 775
Salt & Chestnut Weathervanes P.O. Box 41, Dept. TB West Barnstable, MA 02668 508-362-6085; Fax: 508-362-3012	Produces hundreds of silhouette and swell-bodied weathervane designs for rooftops, flagpoles, decks, or garden ornament. Cupolas, dovecotes, decorative trellises, chime towers, finials, and roof decoratives. Stock and custom.	Free Write in No. 659
Salt Creek Furniture 50 Persimmon Ave., Dept. TB Effingham, IL 62401 217-536-9104; Fax: Same as phone	Bent willow rustic furniture: benches, chairs, arbors, and trellises of willow and hickory.	Free
Santa Barbara Greenhouses 721 Richmond Ave., Dept. TB Oxnard, CA 93030 805-483-4288; Fax: No fax	Glass polycarbonate and fiberglass covered, redwood framed greenhouses with galvanized hardware.	Free
Schiff Architectural Detail 120 Eastern Ave., Dept. TB Chelsea, MA 02150 617-887-0202; Fax: 617-887-0127	Foundry, forge, and fabrication shop offers custom castings, nonferrous forge work and fabrication, machine shop service, rubber molding, and pattern work. Historic restoration and refurbishment.	Free Write in No. 773
Sculptural Designs 202 Fir Dale, Suite 104, Dept. TB Converse, TX 78109 800-397-1452; Fax: 210-659-7250	Figurative and wildlife sculpture in limited edition bronze and architectural sculpted brick (lifesize, heroic); garden and public fountains.	Free
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Smith & Hawken; Trade Sales Div. 117 East Strawberry Dr., Dept. TB Mill Valley, CA 94941 415-389-8300; Fax: 415-383-7243	Supplier of high-quality exterior site furnishings including benches, chairs, tables, planters, and trellis fixtures in teak, cast iron, and other materials. Also: Garden tools and ornament.	Free Write in No. 14
Smith Bronzes 11055 N. Gambol Oak, Dept. TB Highland, UT 84003 801-756-6404; Fax: 801-756-6431	Limited edition and commissioned bronze sculptures for private and public, and indoor and outdoor spaces.	Free Write in No. 392
Smith Company, John P. P.O. Box 840, Dept. TB Branford, CT 06405 203-488-7225; Fax: 203-483-5405	Norwich square mesh tapered litter baskets in 46, 35, 25, or 15 gal. Features include heavy-gauge woven wire construction, sheet-metal pan with drainage and vertical braces. 22 gal. redwood slat receptacles.	Free
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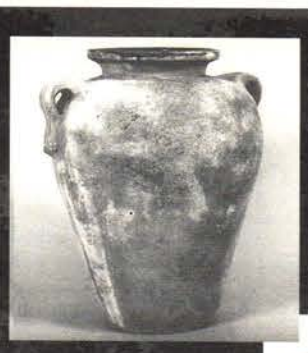

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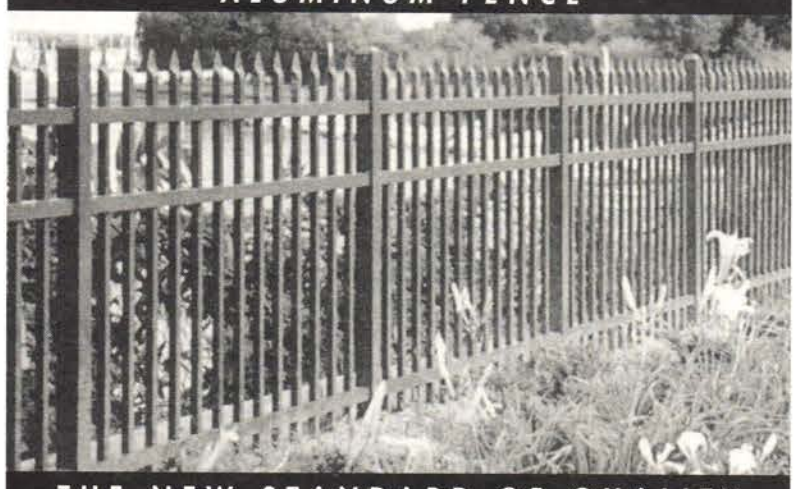

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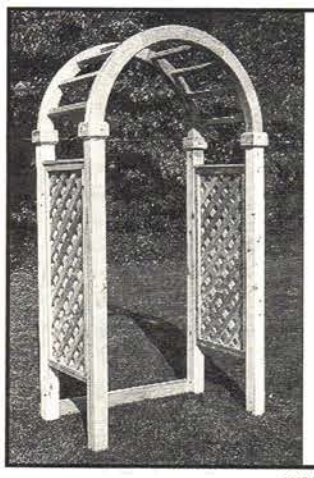

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Stairways, Inc. 4166 Pinemont, Dept. TB Houston, TX 77018 800-231-0793; Fax: 713-680-2571	Custom-designed stairways manufactured from standard components in both wood and metal, for commercial or residential use. Also sells stair parts and kits.	Free
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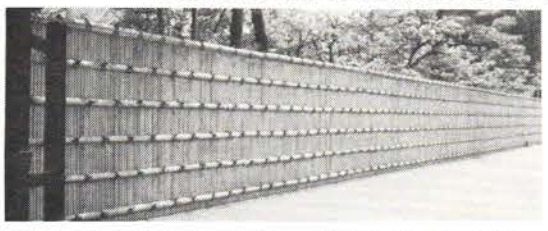

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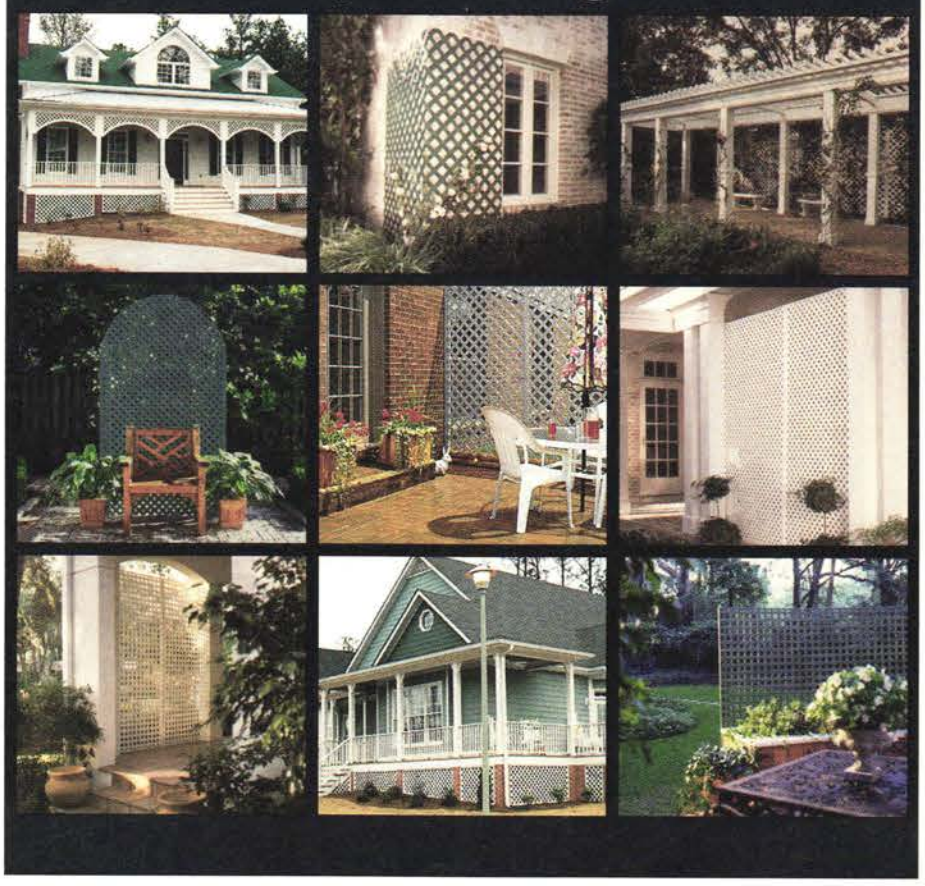

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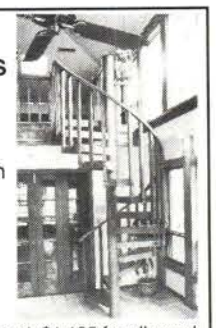

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Urban Archaeology 285 Lafayette St., Dept. TB New York, NY 10012 212-431-6969; Fax: 212-941-1918	Architectural antiques and one-of-a-kind lighting fixtures from the Victorian-1940's; reproduction lighting fixtures; and antique and reproduction plumbing fixtures, including clawfoot tubs, faucets, and showers.	Free Write in No. 299
Vermont Outdoor Furniture P.O. Box 375, Dept. TB East Barre, VT 05649 800-588-8834; Fax: 802-476-8834	Full line of white cedar outdoor furniture, including benches, tables, chairs, porch swings, and lounge chairs. Designs evoke English garden furniture. Residential and commercial; fully guaranteed. Factory-direct shipping.	Free Write in No. 386
Versa-Lok Retaining Wall Systems 6348 Hwy. 36, Ste 1, Dept. TB Oakdale, MN 55128 800-770-4525; Fax: 612-770-4089	Segmented retaining wall systems. No mortar or footings required. Easy construction of curves, corners, and steps.	Free
Victorian Gate & Fence Works P.O. Box 943, Dept. TB Paonia, CO 81428 970-527-5670; Fax: 970-527-5670	Standard and custom Victorian fencing and gates in standard sizes.	Free
Vixen Hill P.O. Box 389, Dept. TB Elverson, PA 19520 800-423-2766; Fax: 610-286-2099	Manufactures high-quality Pavilions, Gardenhouses, and Gazebos in easy-to-assemble modular kits. Delivered factory-direct by common carrier. Western red cedar modules create a durable structure that meets all building codes.	Free Write in No. 710 for gazebos, No. 123 for shutters
Vulcan Supply Corp. P.O. Box 100, Dept. TB Westford, VT 05494 802-878-4103; Fax: Same as phone	Replication of historic architectural sheetmetal ornamentation; custom and stock finials, weathervanes, cornice, vented ridge cresting, leader boxes, cupolas, roof vents, more; all periods and styles.	Free Write in No. 721
Walpole Woodworkers 767 East St., Rt. 27, Dept. TB Walpole, MA 02081 508-668-2800; Fax: 508-668-7301	Manufactures wide variety of period fences and gates, from peeled-pole pickets to exact copies of Colonial Williamsburg originals. Gazebos, arbors.	Free Write in No. 28
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Wausau Tile, Inc. P.O. Box 1520, Dept. TB Wausau, WI 54402 800-388-8728; Fax: 715-355-4627	Manufacturers of precast concrete pavers in 30 standard colors, sizes; also, site amenities: planters, waste receptacles, bollards, ash snuffers, recycling containers, tables, benches, signs. Standard or custom designs.	Free
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White Oak Forge, Ltd. P.O. Box 341, Dept. TB The Plains, VA 22171 540-253-5269; Fax: 540-253-5173	Artist-blacksmith uses hot-forging and traditional joinery methods to produce architectural elements, such as andirons, fire tools, fences, gates, railings, balustrades, and furniture.	Free Write in No. 630
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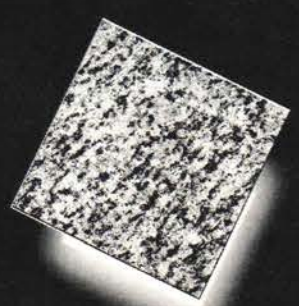

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LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

For more information on these companies, consult the SourceList on pp. 100-116.

HISTORICAL ARTS & CASTING, INC., fabricated this bronze fountain for the Governor's Mansion in Annapolis, MD. Brass fish decorate the lower tier, birds decorate the middle tier, and the top tier features agricultural elements. *Write in No. 121*

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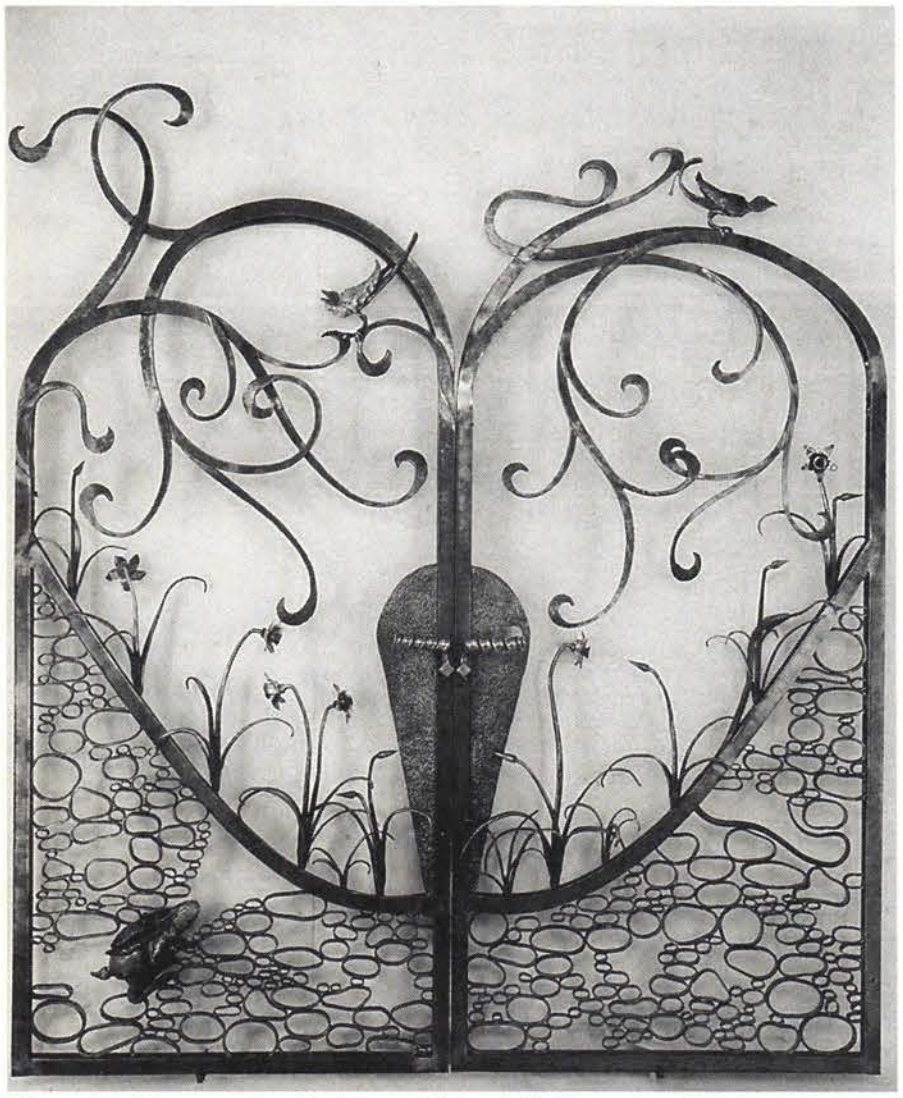
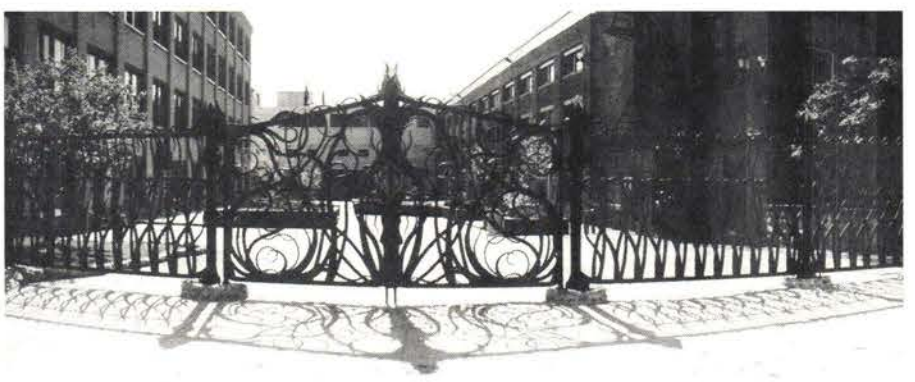


This gate, with copper details, features birds, daffodils, and a rabbit. FREEDOM FORGE. *Write in No. 265*

Bob Brosamer, of BROSAMER'S BELLS, stands next to some of the cast-iron and bronze bells in his inventory. *Write in No. 713*



Reminiscent of the Art Nouveau style, this fencing and gate was the creation of METALMORPHOSIS. *Write in No. 119*

DURAFORM's slab bench of fiberglass reinforced resin can be attached to cube tables or planters, as shown here. *Write in 184*

LIBERTY BRASS TURNING CO. produces the "Aurora" turning, No. 9011 in their catalog. *Write in No. 844*

This wind-swept goddess was sculpted by DAVID LA ROCCA. *Write in No. 363*

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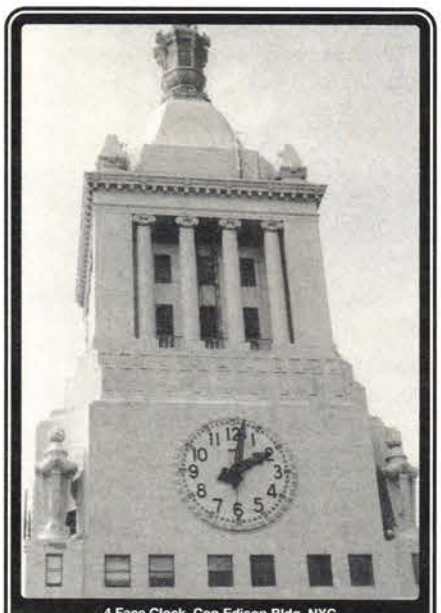

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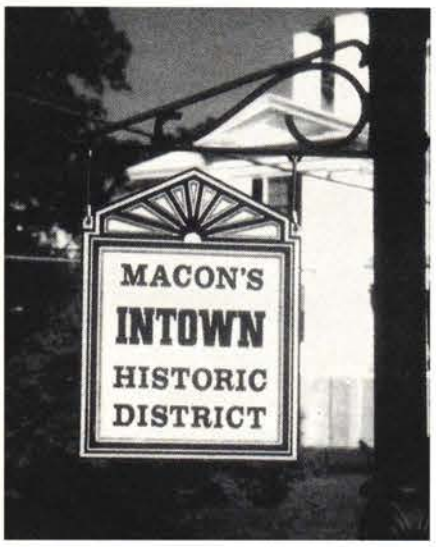
WRITE IN NO. 378

LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

For more information on these companies, consult the SourceList on pp. 100-116.

This plaque, for a historic site in North Carolina, was fabricated by SMITH-CORNELL. *Write in No. 46*



Custom designed signs are a specialty of LAKE SHORE INDUSTRIES. This decorative post base fits 2- or 2-1/2-in. "schedule 40" pipe. *Write in No. 873*

Public art and mosaic signage is a specialty of TERRA DESIGNS TILE-WORKS.

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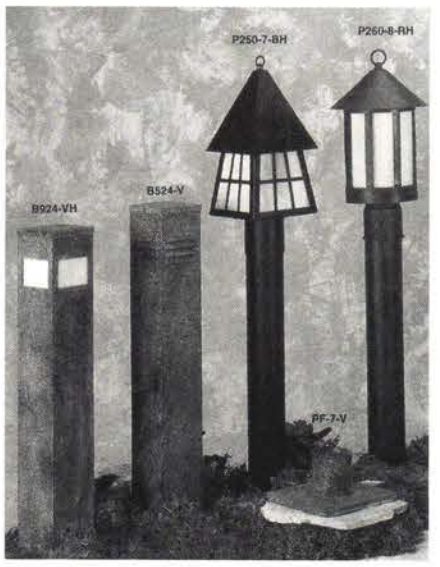
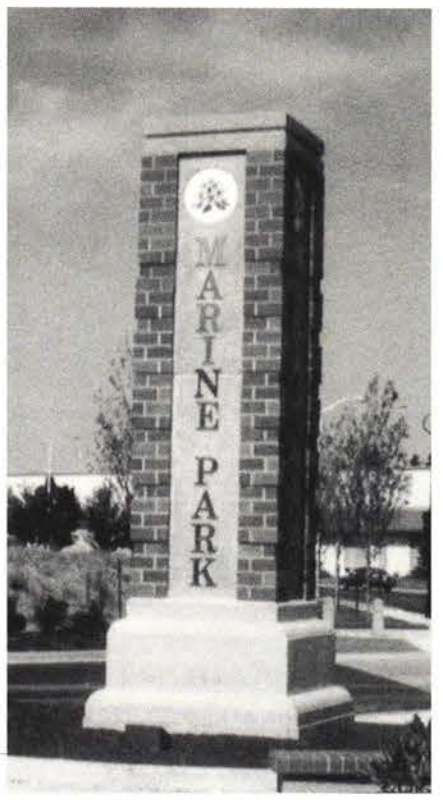
This is a combination model spa with built-in waterfalls from WATER STRUCTURES BY GALAXY. *Write in No. 290*



Craftsman style bollards — with louvers (B924-VH) and window glass (B524-V) — are found in the ROCKSCAPES catalog of lighting and garden amenities. *Write in No. 894*

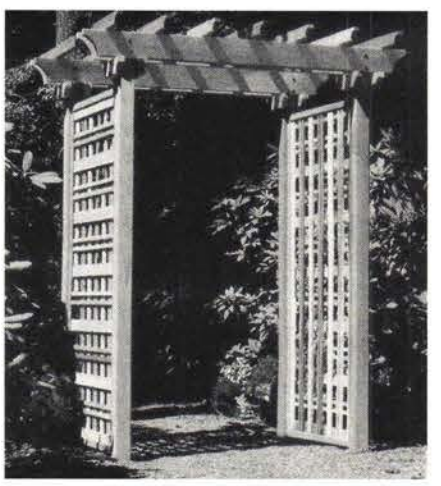


The CONCRETE SHOP, INC., fabricated this monumental sign in precast concrete. *Write in No. 308*

This high-relief Impruneta terra-cotta planter is imported by SEIBERT & RICE. *Write in No. 550*

GABY'S SHOP specializes in fine wrought iron, including commissions like this entry gate. *Write in No. 252*

These sea horse garden ornaments from BRASS BARON are #N200FVM and #N200FVS (measuring 19-in. H. and 10-in. H., respectively). *Write in No. 20*



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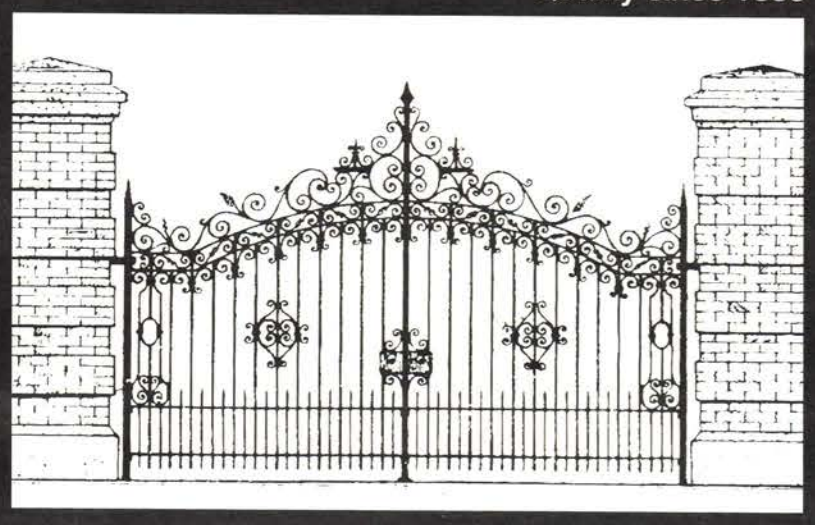

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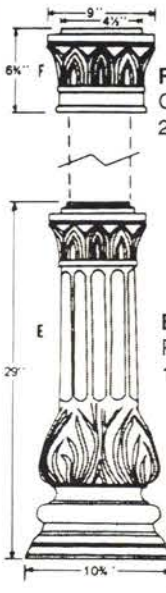

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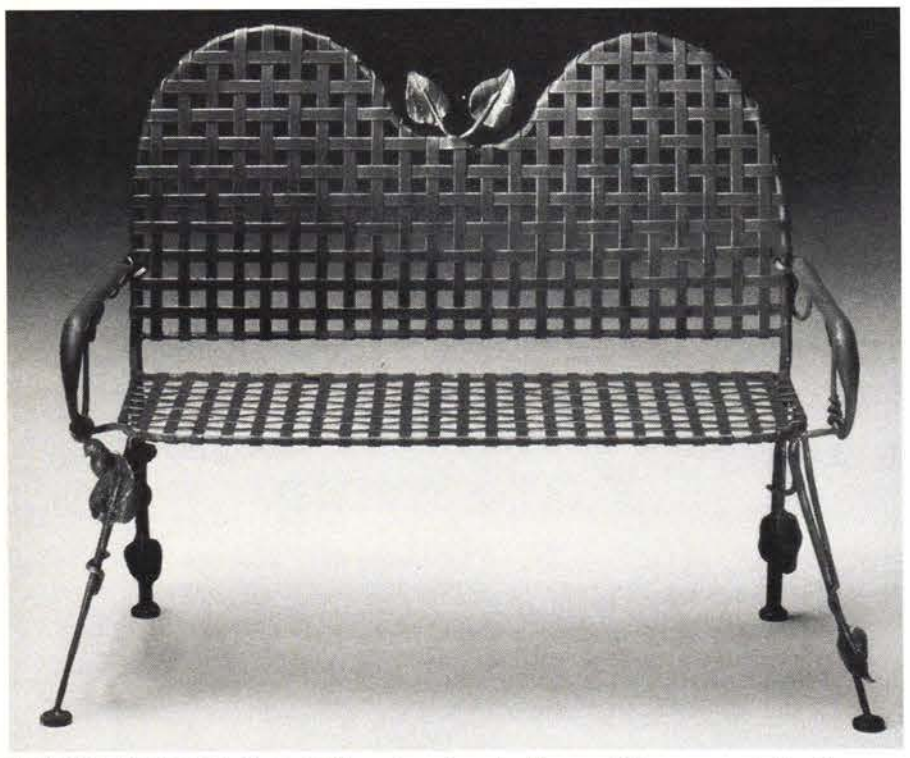
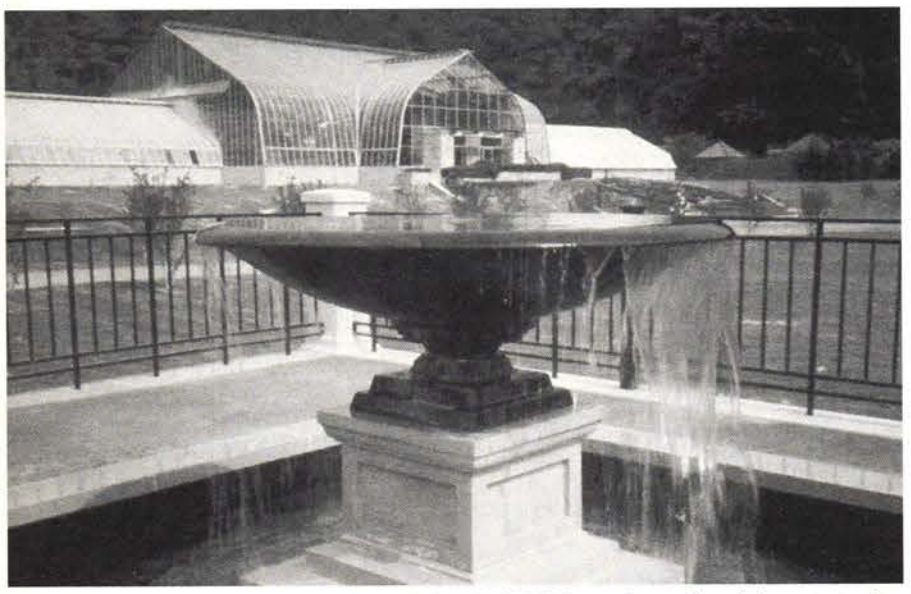
For more information on these companies, consult the SourceList on pp. 100-116.



KAVIAR FORGE fabricated this custom bench of wrought iron accented with ornamental leaves and birds. The bench, coated with an outdoor epoxy, measures 42-in. H., 44-in. W., and 24-in. L. *Write in No. 984*



Fountains are a specialty of ROBINSON IRON CO. — from the elaborate to the ele-gantly simple — like this Botanical Gardens fountain. *Write in No. 324*

Western red cedar lampposts are a specialty of WOODWRIGHT CO. *Write in No. 660*

Weathervanes and cupolas are a specialty of ALLEN CUPOLAS. *Write in No. 79*

Vicenza stone urns and sculpture, like this robust cherub, are a specialty of ROSSATO GIOVANNI SNC. *Write in No. 611*

This tall bronze crane is from the RED BARON'S inventory of architectural antiques. *Write in No. 989*

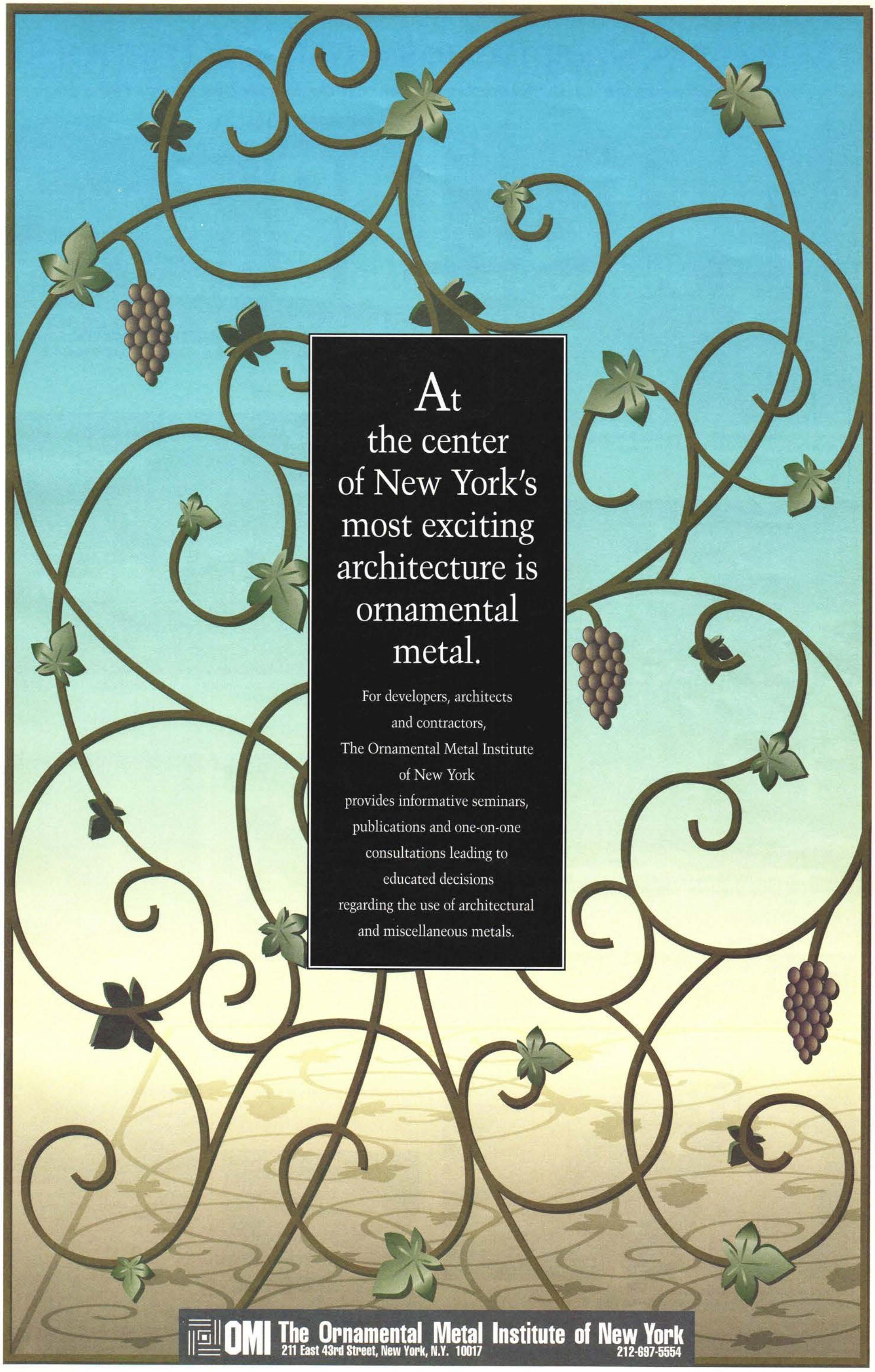
This two-sided wooden sign measures 4x6 ft., with hand-lettered top seal, hand-chiseling, and 24-K gold lettering. GEER & CO. *Write in No. 933*

This lounge chair and ottoman were fabricated and handcarved by GRAYSON WOODCARVING & DESIGN. *Write in No. 398*

This grandstand gazebo in Exton, PA, is part of the Victorian line from VIXEN HILL GAZEBOS. Features include a 27-ft. dia. three-tier roof, three entrances, and kiln-dried cedar fabrication. *Write in No. 710*

GREENHEART DURAWOODS sells pau lope, a strong, rich hardwood with high resistance to decay and insects, and is suitable for decking and exterior furniture, like this bench. *Write in No. 814*

POLYTEK supplied the Poly 75-60 mold rubber and Poly 15-6 liquid plastic used to cast this 6-ft. dia. fountain of dry pack concrete. It was a multi-part mold with plastic mold shell. *Write in No. 636*

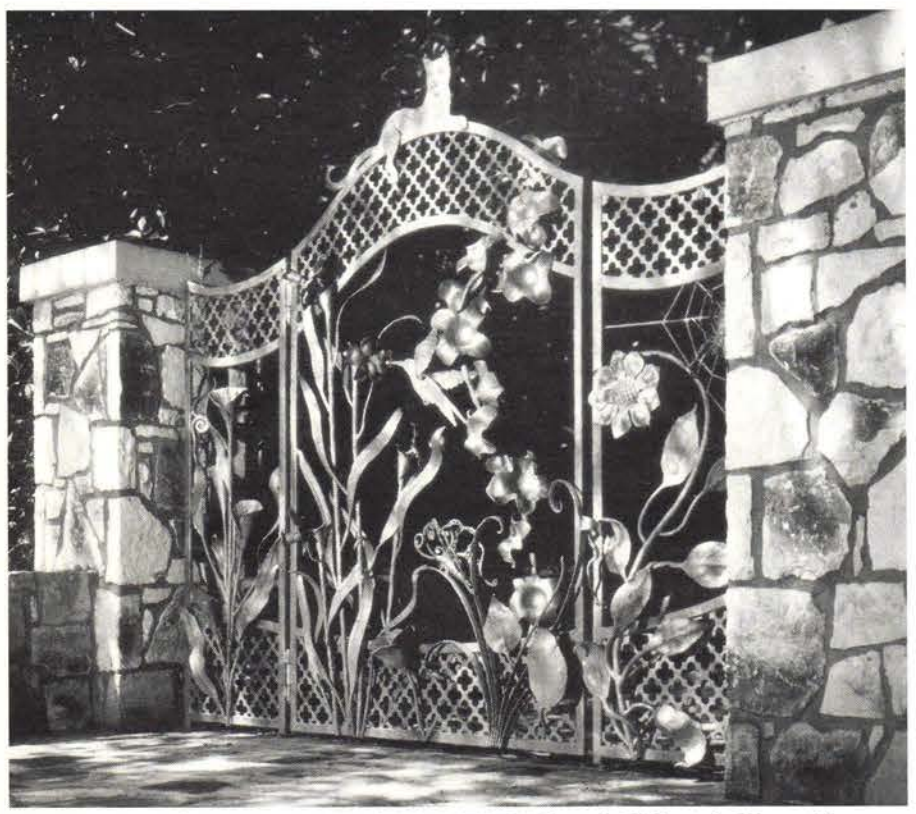


WRITE IN NO. 543

LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

For more information on these companies, consult the SourceList on pp. 100-116.

These all-heart clear redwood planters, style R, were ordered from SITECRAFT for this public plaza in New York City. *Write in No. 673*



This entry gate from BRUMDER ORNAMENTAL is 7-ft. H. by 9-ft. W., and is decorated with foliage forged from barstock (and a cat that sits on top of the gate). *Write in No. 186*

The floor of this interior court was paved with Stanstead Grey, Regal Grey, and Prairie Green granite from ANCOR GRANITE TILE. *Write in No. 12*

The waterjet stonecutting on this monument was done by CREATIVE EDGE CORP. *Write in No. 717*

This garden set — table, bench, and armchairs — was fabricated by TENNESSEE FABRICATING CO. *Write in No. 518*

"At the Pond," by sculptor DENNIS SMITH, is one of a limited edition of bronzes he has created that depict children. *Write 392*

Rough-surfaced modular granite units from ARCHEAN GRANITE are set in sand. *Write in No. 312*

FESTIVE FOUNTAINS creates all kinds of water effects, including spouting fountains. *Write in No. 384*

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Left: ***Athena Parthenos****, 1990, The Parthenon, Nashville, fiberglass-reinforced gypsum, 42'H*

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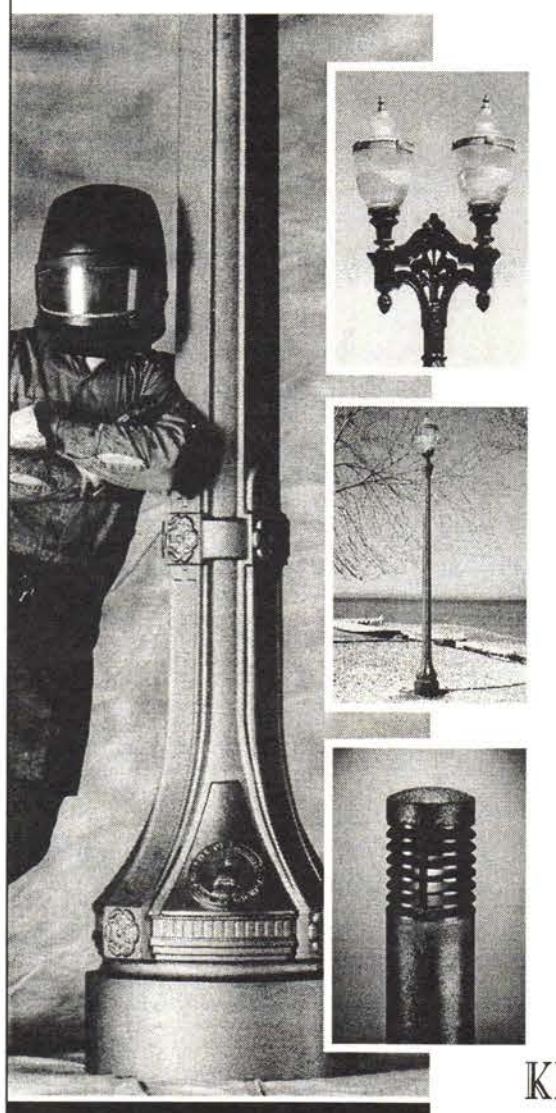

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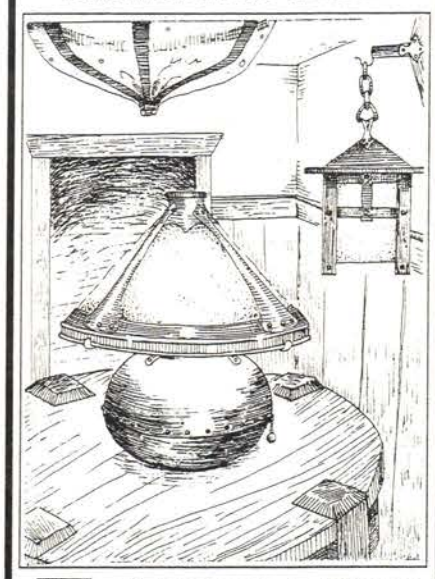

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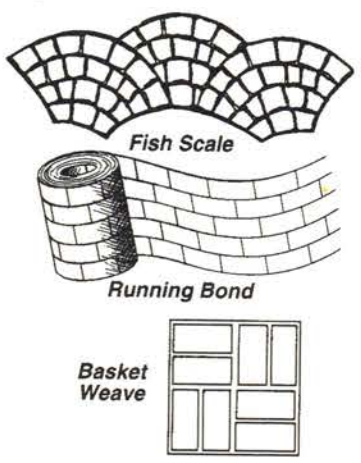

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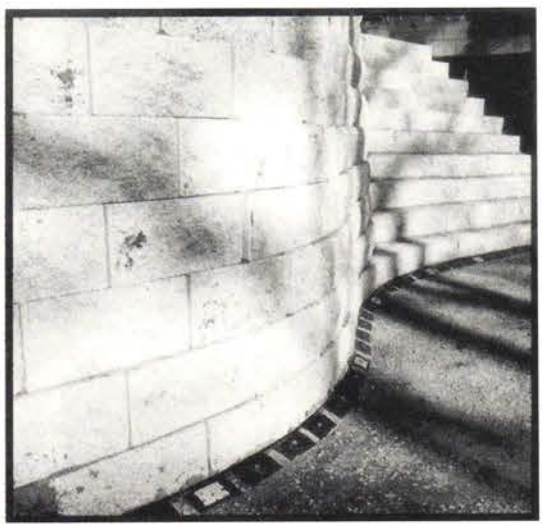
LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

For more information on these companies, consult the SourceList on pp. 100-116.

Diamond shaped PVC privacy lattice was used to enclose this garden pergola. **PLASTICS RESEARCH - TUFF BILT.** *Write in No. 467*



PAVE TECH's edging system avoids the need for a foundation trench when constructing a retaining wall. *Write in No. 366*

This stepped waterfall is a custom water feature designed by AQUARIUS WATERWORKS. *Write in No. 90*

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MONUMENTAL IRON WORKS has many combinations of ornamental picket fences and gates. *Write in No. 691*

FRONT RANGE PRECAST CONCRETE manufactured this arched bridge, with Lyon's sandstone and mocha-colored concrete. *Write in No 208*

This elegant floral gate was fabricated by WHITE OAK FORGE, LTD. *Write in No. 630*

GEMINI manufactures plaques and signs, including those appropriate in landscape settings.

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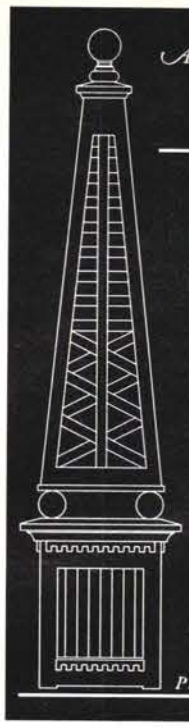
DESIGNS IN TILE fabricated this custom Persian revival mural. *Write in No. 25*



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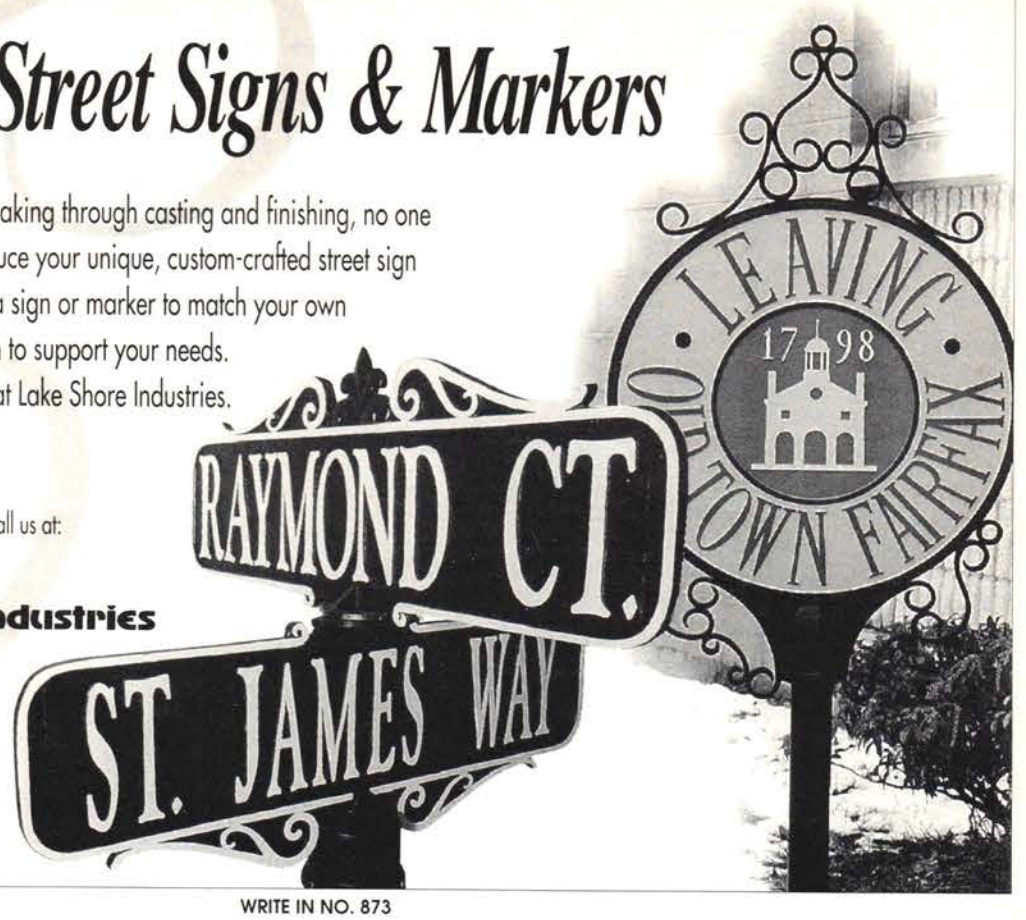

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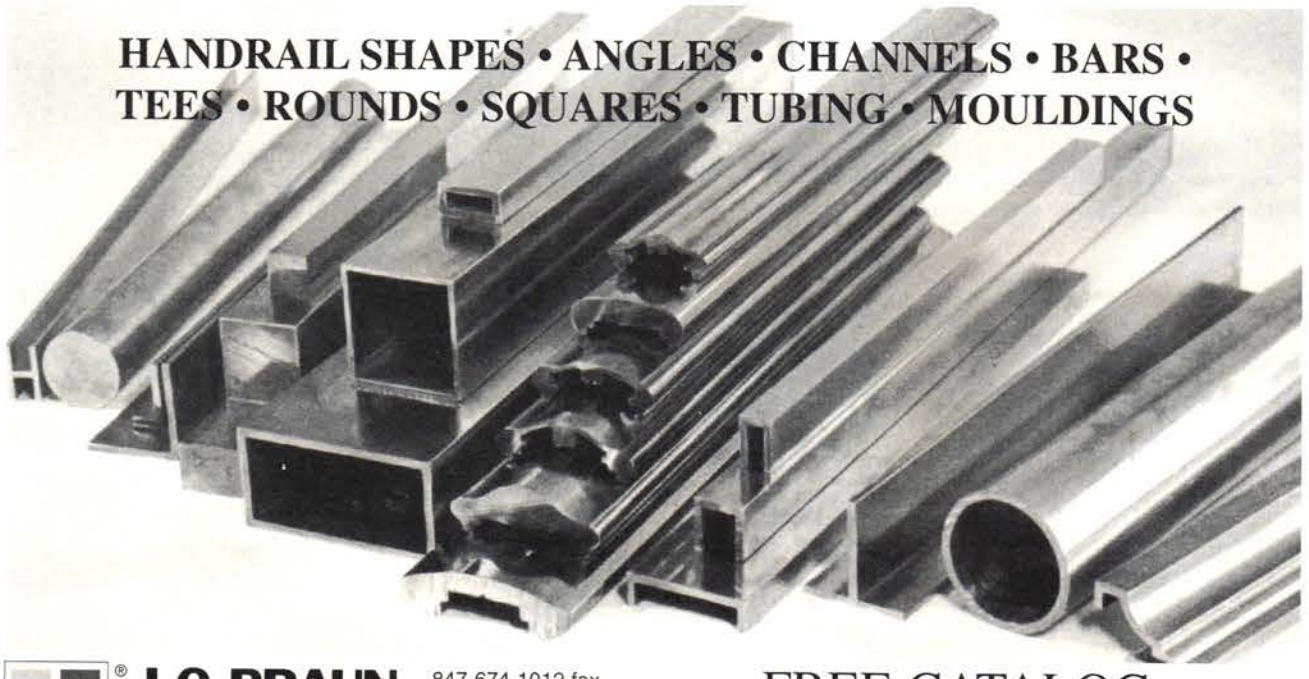

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This rustic red cedar sitting arbor is from ROMANCING THE WOODS, who uses mortise-and-tenon joinery and other fine woodworking techniques. *Write in No. 501*

CAMBRIDGE PAVINGSTONES come in various shapes and sizes and are part of the "Kings Court Collection."

ICD manufactures retaining systems and edgings made of concrete.

This cast plaque from COLONIAL BRASS CO. tells the history of a historic building. *Write in No. 302*

The "Weeping Willow," from AERATORS, INC., is among the models of floating aerators they manufacture.

The M-84 jug filler fountain is activated by a top-mounted push button or side lever and is manufactured by MURDOCK FOUNTAINS. *Write in No. 378*

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STEPTOE & WIFE fabricated this custom wrought-iron gate for a residence. *Write in No. 47*

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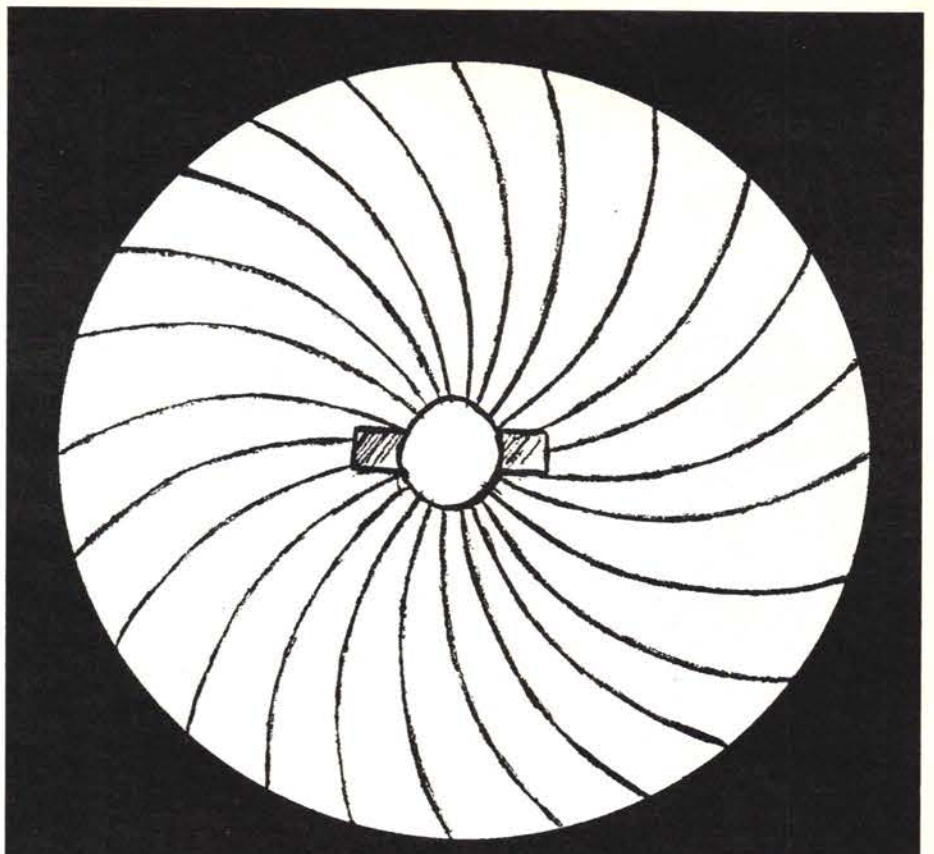

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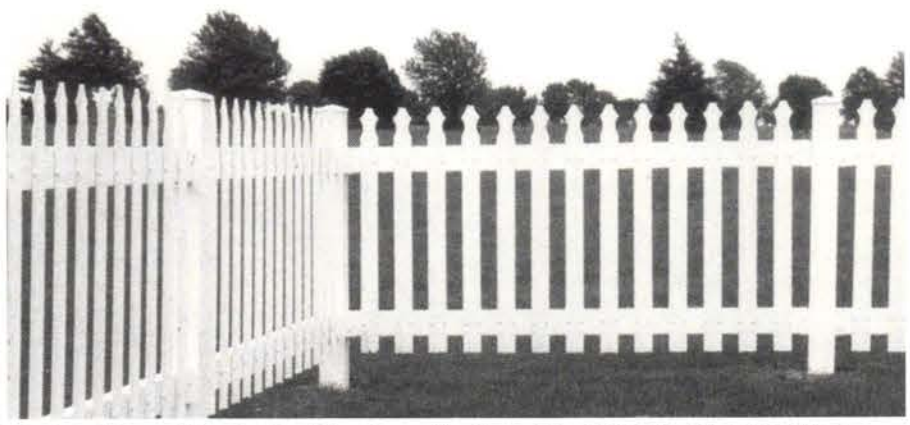
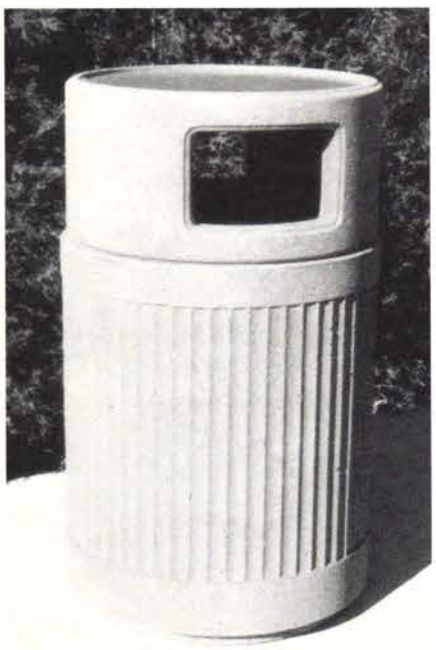


The "Bellflower" is a PVC picket fence distributed by NEBRASKA PLASTICS, which sells more than 20 traditional styles. *Write in No. 718*

The landscaper of this project set a millstone into this brick walk to create an unusual focal point. MAINE MILLSTONES *Write in No. 444*



The "Townsquare," from DOTY & SONS, features a heavy-duty hinged steel lid, 31-gallon inner liner, and is just over 26-in. dia. and 43-in. H. *Write in No. 209*

HANOVER LANTERN custom designed these nautical style fixtures, #L47260; poles were supplied by the customer.

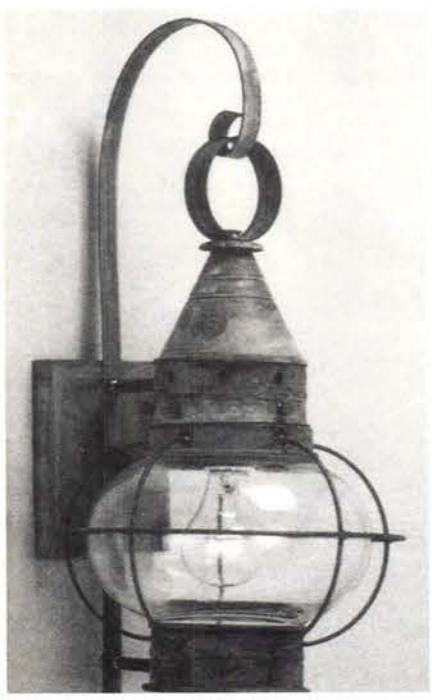
This cast-metal bench and chair from KRAMER BROTHERS is decorated with a delicate fern design.

An urn and two gargoyle planters from JAZ PRODUCTS are made of a lightweight polymer. *Write in No. 317*

BLAKE'S regular flagstone ranges in thickness from 1-1/2 to 2-1/2 in. and is typically used for walkways, driveways, patios, and pool decks. *Write in No. 216*

This classic reproduction cast stone foliate planter is from ACANTHUS GARDEN. *Write in No. 319 for fountains and No. 968 for planters*

MICHAEL BENTLEY ENTERPRISES' antique chimney pots can also be used as garden accents. *Write in No. 41*



The "Cape," Model 2570, is available with either a natural brass or patinated finish. A nautical look is achieved with a "dura-mount" backplate from HINKLEY LIGHTING. *Write in No. 68*

The flagpole tops from EDER FLAGPOLE include an eagle and ornamental ball. *Write in No. 429*

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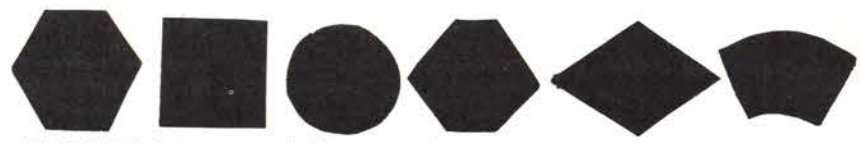

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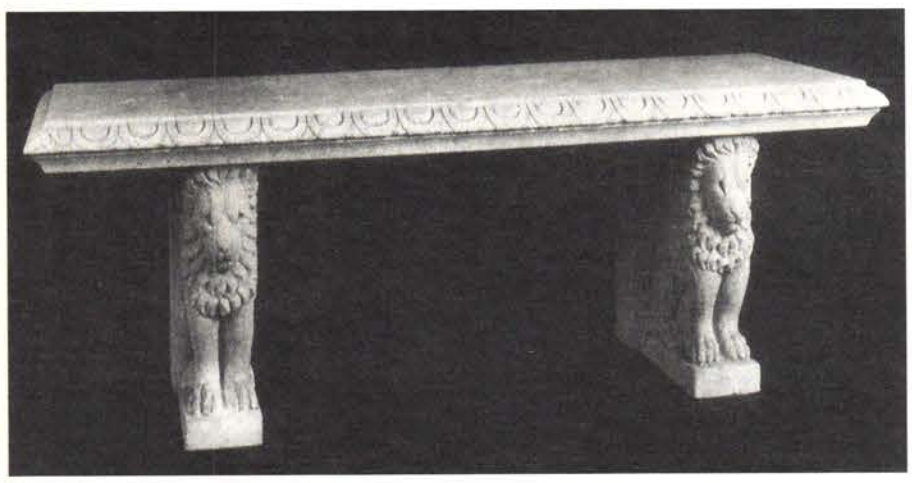
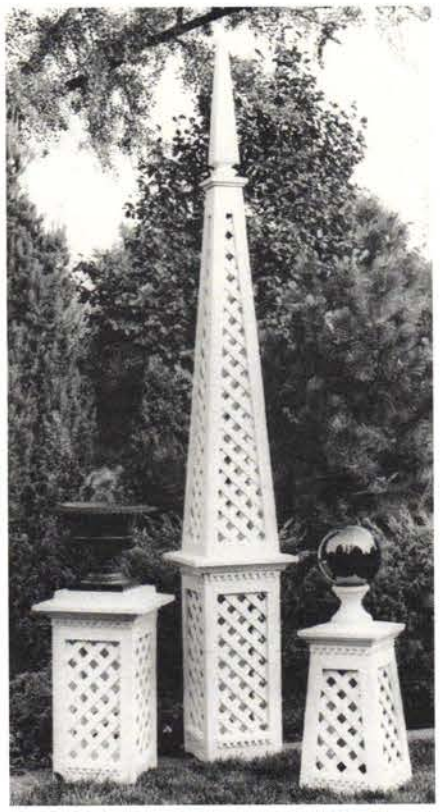
For more information on these companies, consult the SourceList on pp. 100-116.

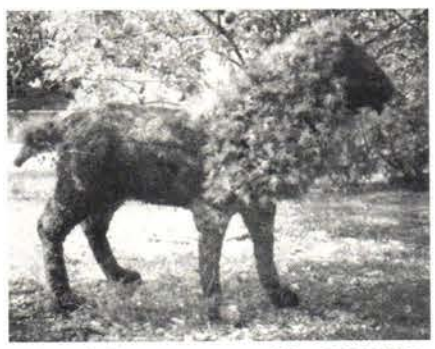


This stone bench with twin lion supports measures 63-in. L. and 17-1/2-in. D. GOODWIN INTERNATIONAL. *Write in No. 416*

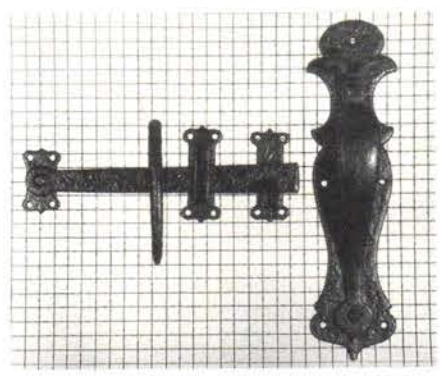
CUSTOM CASCADES creates waterfall manifolds in a range of effects — from sheeting to cascading. *Write in No. 155*



Elegant lattice bases holding gazing balls, planters, and obelisks are a specialty of LAKE CREEK GARDEN FEATURES. *Write in No. 364*

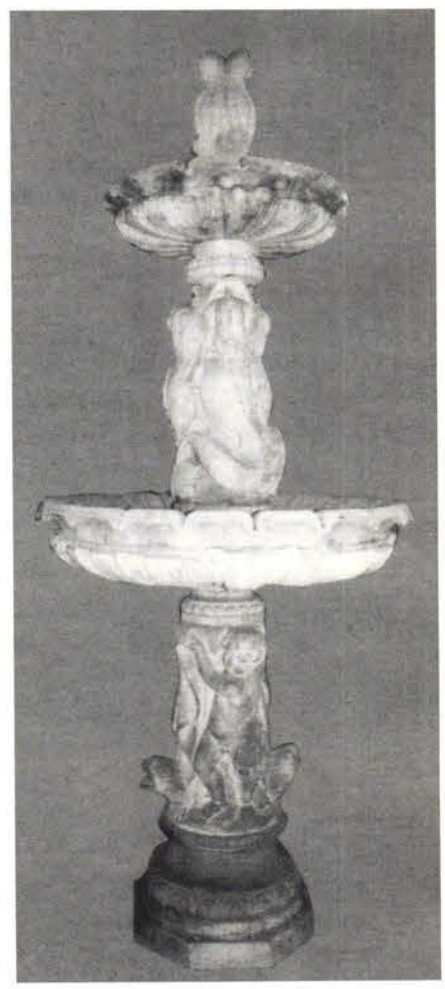


This 8-ft. lion was created by ROMANTIC TOPIARIES for the World Bromeliad Conference in Florida a few years ago. The lion's mane features a Central American bromeliad that was recently introduced to the U.S. *Write in No. 703*



MAGUIRE IRON's gate latch and handle are fabricated in wrought iron. *Write in No. 760*

Fountains, pool coping, and patio pavers in a wide range of finishes are available from FEDERAL STONE INDUSTRIES. *Write in No. 234*

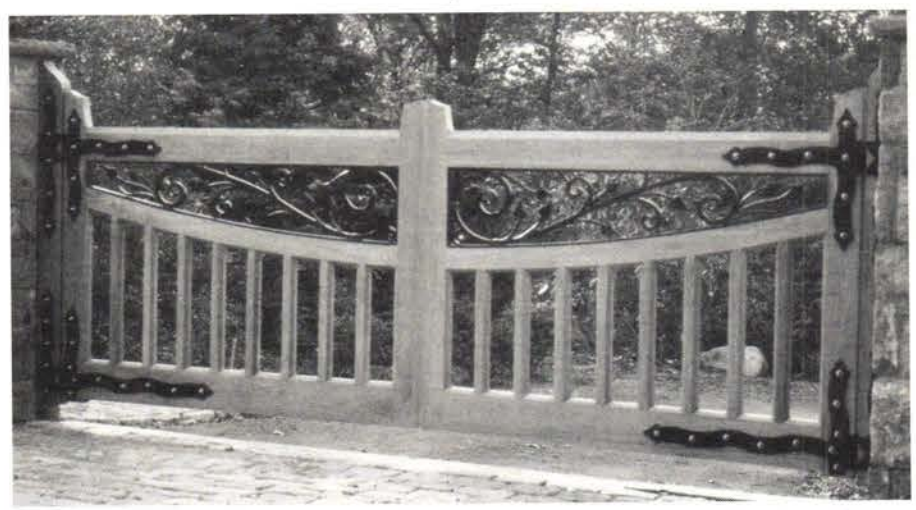


Puttis and wild animals decorate this 9-ft. tall, two-tiered fountain carved from grey limestone; an antique available through GREAT GATSBY'S. *Write in No. 327*

The whitewash finish on this rectangular planter from ARCHITECTURAL POTTERY is just one of the many finishes (including custom) available for pottery. *Write in No. 2*

DICKSON ELBERTSON MILLS is a manufacturer of cotton awning canvas (used here for a French restaurant) and a wide range of acrylic and PVC-coated polyester fabrics. *Write in No. 608*

This brick circle pattern with running bond field pattern is actually a concrete paving system created with templates and coloring agent by ARTCRETE. *Write in No. 214*



These English style gates with operators are 4-in. solid teak, have forged steel decorations, utilize hydraulic gate operators, and are a specialty of DESIGN ASSOCIATES INC. *Write in No. 824*

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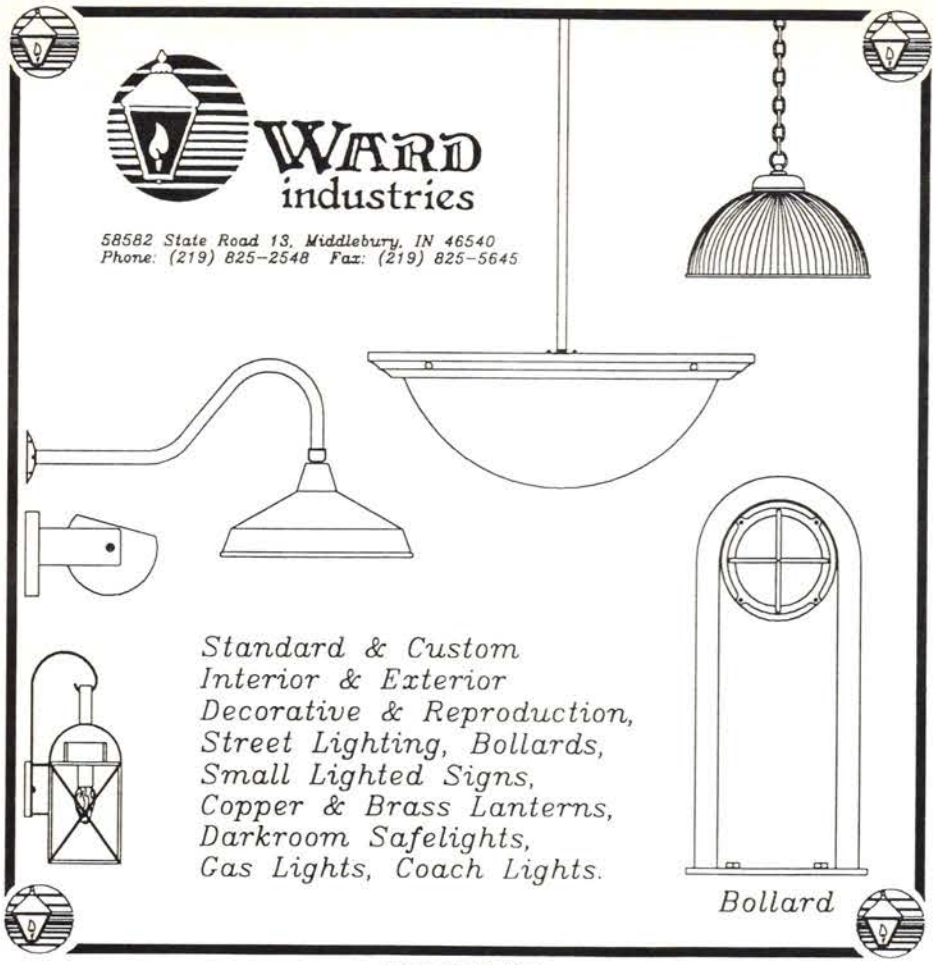

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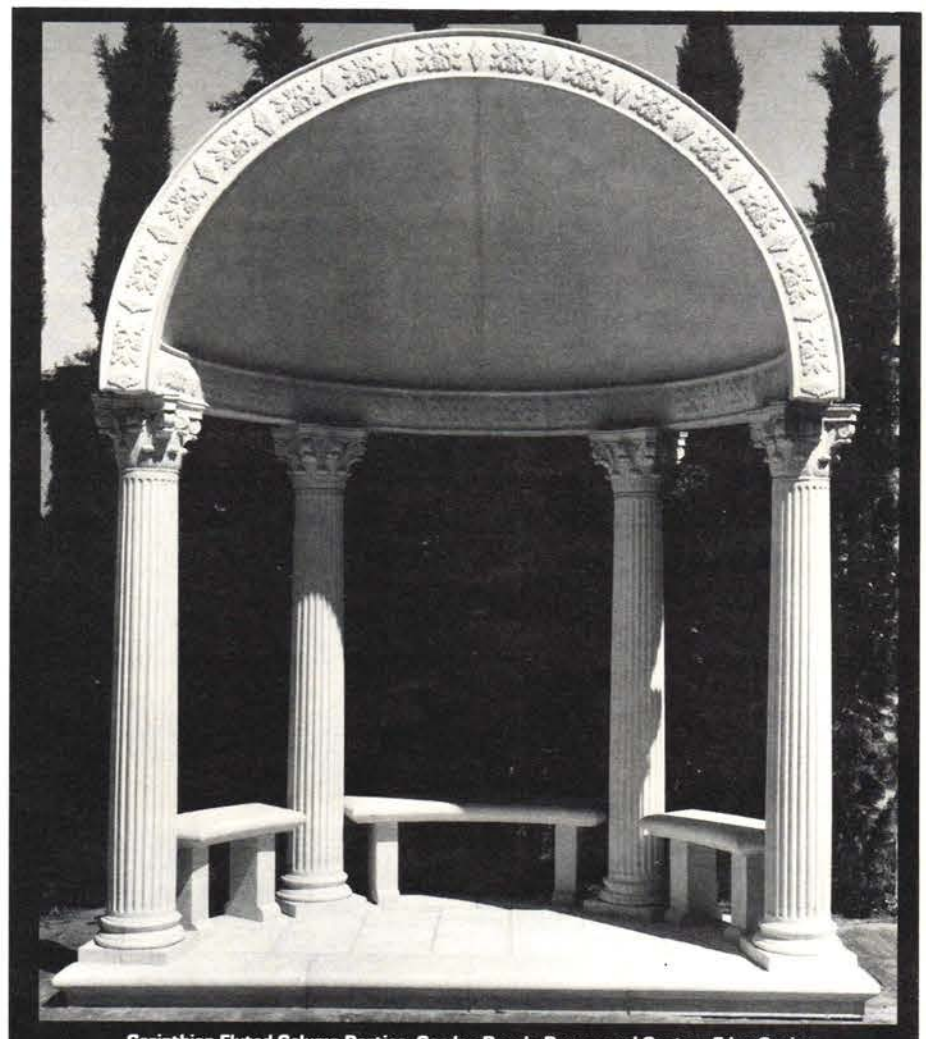

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WRITE IN NO. 147

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For more information on these companies, consult the SourceList on pp. 100-116.

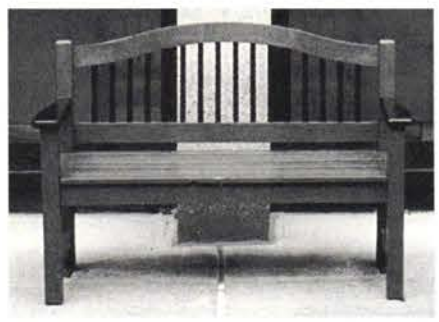
TRIMBLEHOUSE created the "Atlanta" streetlight — poles and luminaires — for the Georgian city as part of its pre-Olympics spruce-up. The streetlight features a cast-iron base with an extruded, fluted steel shaft, and a fixture of cast aluminum with a prismatic polycarbonate lens. *Write in No. 105*

The "Knightsbridge" lighting fixture is mounted with a wall bracket, and features a 4-5/8-in. tall fancy fitter, white ornamental globe, and decorative cast top finial. WARD INDUSTRIES. *Write in No. 409*

TRYSTAN's Regal Bench is made with cast-iron ends and cedar slats, and comes standard at 6-ft. long. *Write in No. 541*

CHAENOMELES cast-bronze star adds a patriotic touch to the flag staff holder. *Write in No. 136*

The model WM59A exterior wall lantern from ARTE DE MEXICO measures 14-in. wide by 6-in. deep and is illuminated with two 60-watt candles.



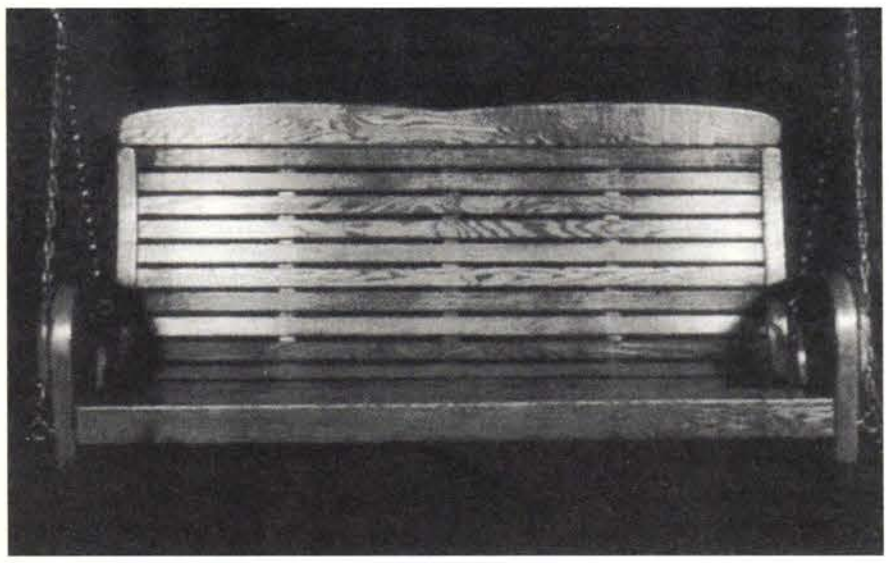
This painted bench from VERMONT OUTDOOR FURNITURE is sited in an urban plaza park. *Write in No. 386*

The fountain at Marshall University, Huntington, W.V., combines sculpture (by Harry Bertoia) and water in motion with submersible pumps. ROMAN FOUNTAINS, INC. *Write in No. 651*

Garden items from STONEWORKS OF VERMONT include the Irish Stone House planter. *Write in No. 744*

The stock dimensions for the "Rose Temple" from FRENCHWYRES are 6-ft. W. by 9-ft. H., but custom sizes can be accommodated. *Write in No. 266*

NEW LONDON BRICKWORKS hand-manufactures brick of all types: Radial, circular, semi-circular, elliptical, and jack arches. *Write in No. 556*



The "Country Classic" steam-bent oak swing is available as glider or hanging from CENTERVILLE SWING. *Write in No. 116*

The downtown revitalization of Rochester, N.H., included 301-ft. of No. 10-R ornamental iron fencing from STEWART IRON WORKS CO. *Write in No. 991*

Architectural metalwork from NED JAMES ARCHITECTURAL METAL includes fine, handwrought lanterns. *Write in No. 306*

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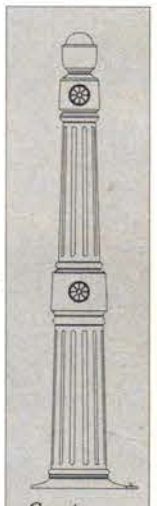

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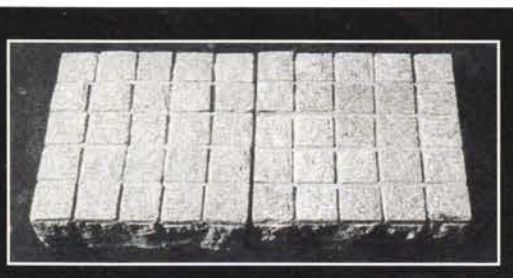

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WRITE IN NO. 509

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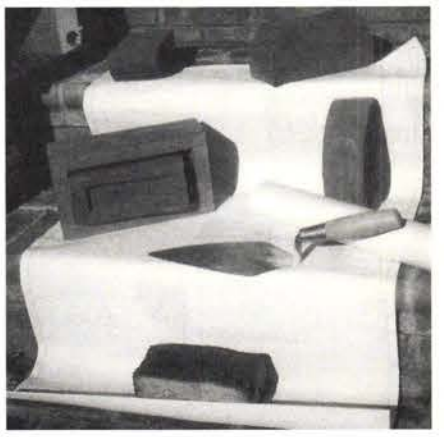
For more information on these companies, consult the SourceList on pp. 100-116.

The "Adironsor" iron bench can be found in the PAINTED GARDEN catalog. *Write in No. 452*

Earthtone colors in granite were chosen for the stone walls of this poolside, from CHAMPLAIN STONE, LTD. *Write in No. 427*



BORAL BRICKS makes specialty brick, including wood molded brick, coping, and bullnose shapes. *Write in No. 93*

Wall model greenhouses from UNDER GLASS MFG. help reduce heat loss in winter and provide an area to run baseboard heat, electric, or water lines. *Write in No. 351*

Precast material for this streetscape project in Arcadia, Calif., includes planters, wall caps, pier caps, signage, and planters with sandstone finishes and custom color match from A&M VICTORIAN DECORATION. The planters are PL5 and PL11 basket-weave, measuring 18-in. and 23-in. tall, respectively. *Write in No. 747*

The Lansing, Mich., streetscape is outfitted with K118 luminaires from KING LUMINAIRE CO. and is available in an external refractor, Model EO. *Write in No. 341*

This garden feature combines chime tower with weathervane for an unusual garden accent. SALT & CHESTNUT WEATHERVANES *Write in No. 659*

TRELLIS STRUCTURES manufactures easy-to-assemble garden trellises in forms from simple to unusual, like this garden bench. *Write in No. 849*

JOHN P. SMITH CO. produces traditional Norwich wire-mesh litter baskets.

This private residence patio is set in a random rectangular pattern in the full color range of ROBINSON FLAGSTONE. Pavers are cut to size and numbered for ease of installation. *Write in No. 979*

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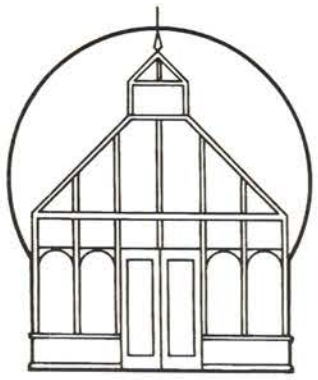

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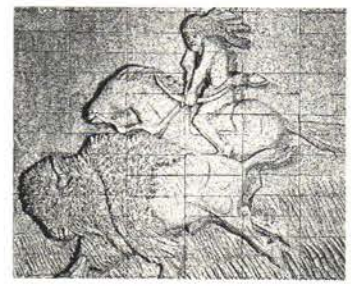

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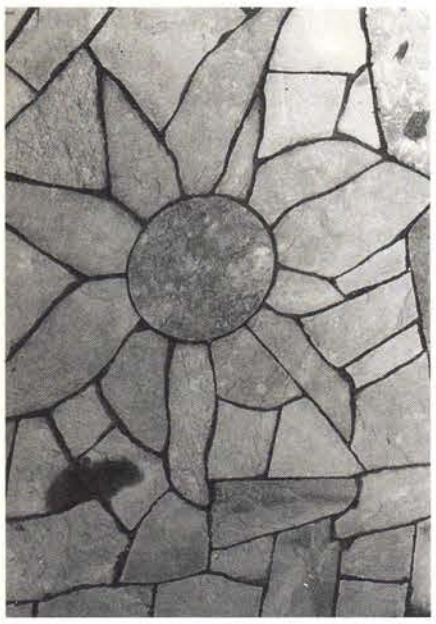
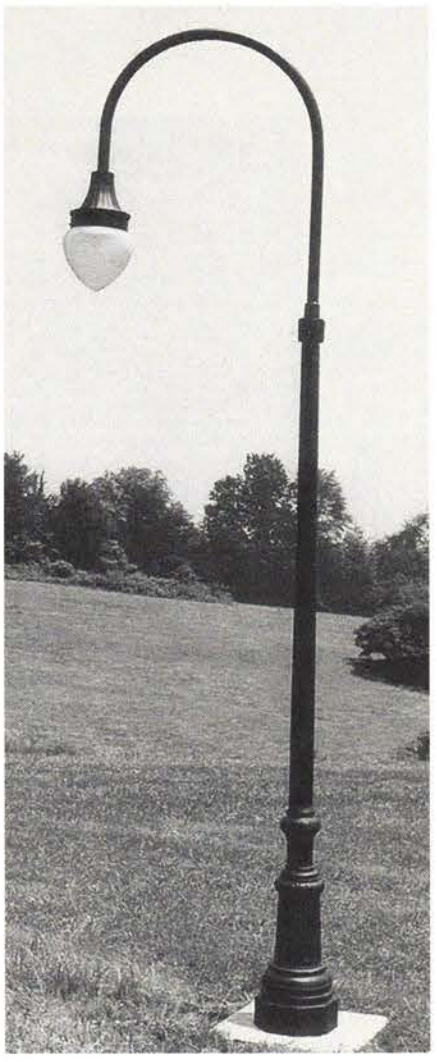
For more information on these companies, consult the SourceList on pp. 100-116.



Bluestone from NEW YORK QUARRIES forms a mosaic flower pattern in this paver setting. *Write in No. 447*

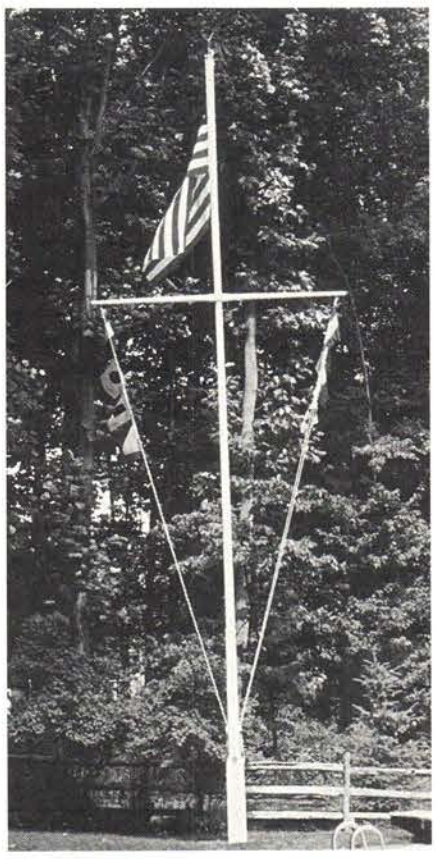


The "Belvedere," available from HAPCO's catalog, has a cast-aluminum base, tapered aluminum pole, and is available in heights from 8-14 ft. *Write in No. 407*

The lion head doubles as a beach shower and was fabricated in cast bronze by SCHIFF ARCHITECTURAL DETAIL. *Write in No. 773*

BOSE ASSOC. sells handcast-aluminum letter boxes and poles. This one, style #227, features a horse-drawn carriage. *Write in No. 488*

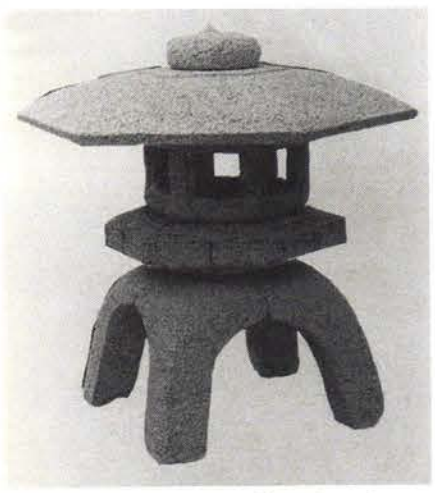
This armillary sundial in bronze (model ST7710) has a height of 20 inches and is available from HENRI STUDIO, INC. *Write in No. 263*



This HENNESSY HOUSE nautical style pole is available with yardarms and gaffs in heights from 15-40 ft. Poles come with all rigging, brass fittings, galvanized-steel anchoring irons, and optional custom marine flags (like the "Jolly Roger"). *Write in No. 118*

In addition to interior Arts & Crafts lighting fixtures, MICHAEL ASHFORD DESIGN also produces porch lanterns in the same style. *Write in No. 503*

This theme park features IRONSMITH tree grates, which are also available with removable corners for the installation of subgrade lighting. *Write in No. 900*



ASIAN ARTIFACTS sells oriental-style garden ornament like this Japanese stone pagoda.

LUNAFORM makes large urns and garden containers in reinforced concrete and steel that are available in a wide variety of natural colors and textures. *Write in No. 762*

These Renaissance style fiberglass urns are from CLAYCRAFT. *Write in No. 182*

This classic fruit and flower basket is from CLASSIC GARDEN ORNAMENTS. *Write in No. 180*

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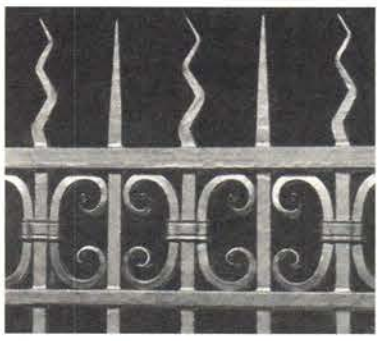

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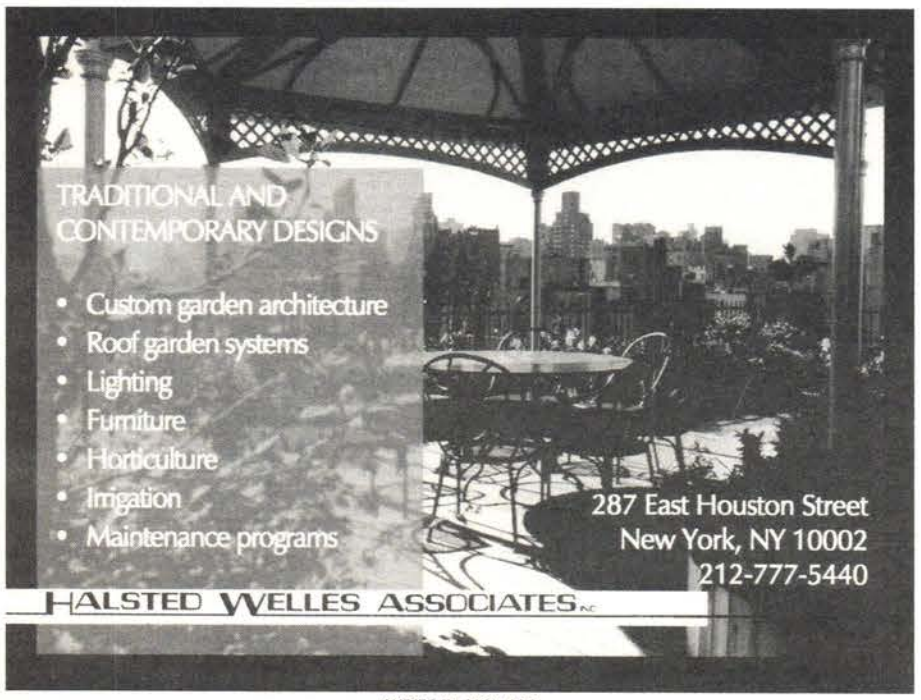

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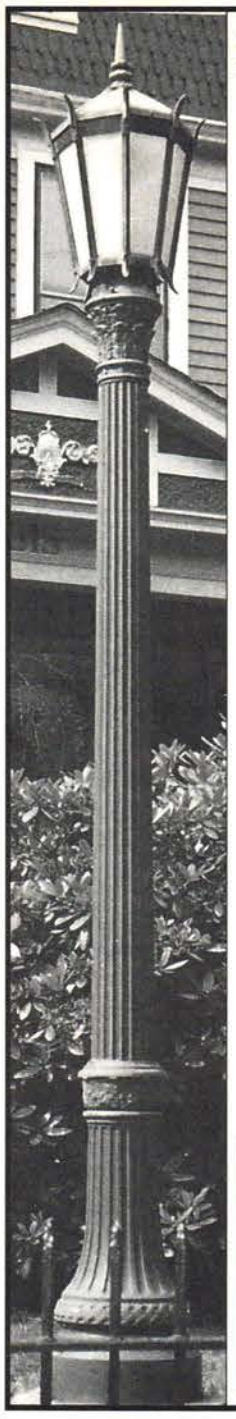

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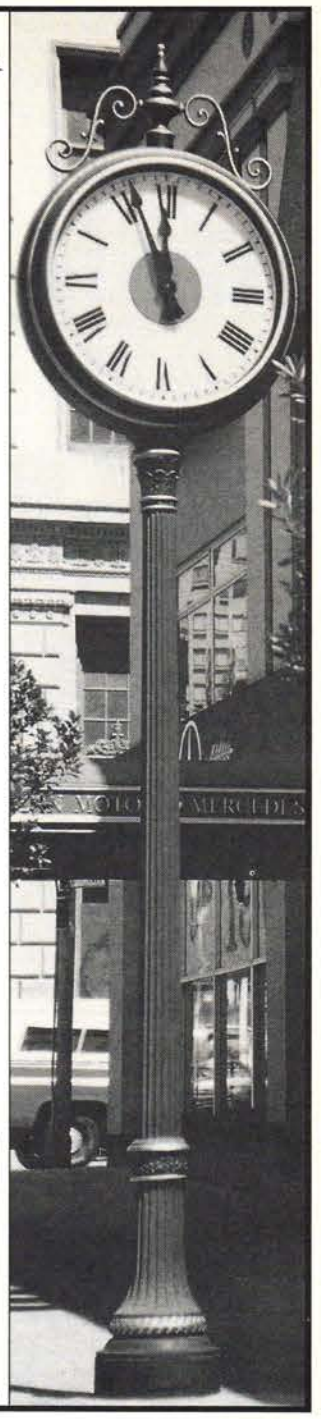

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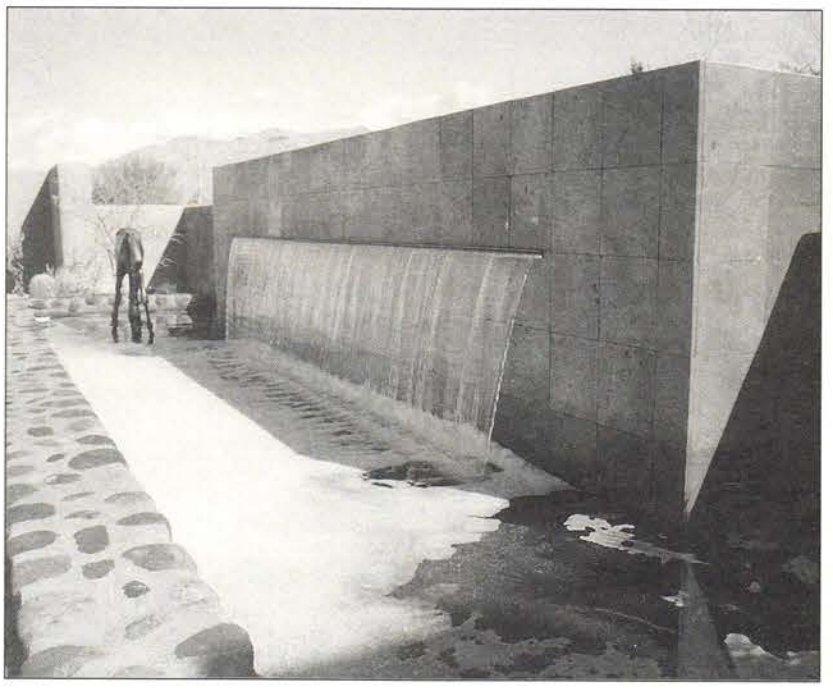

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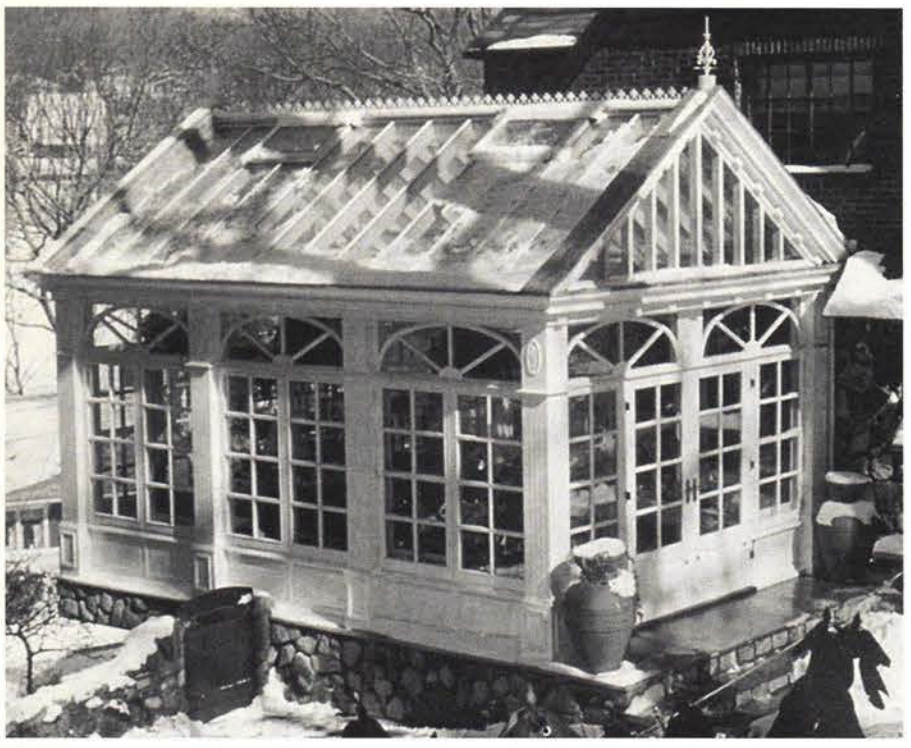
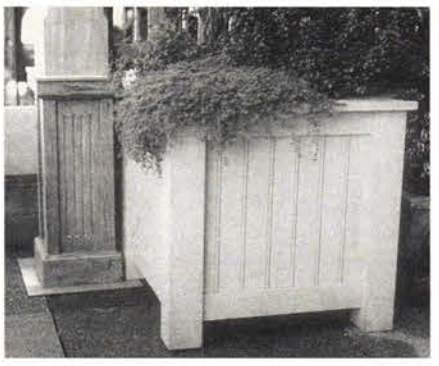
For more information on these companies, consult the SourceList on pp. 100-116.

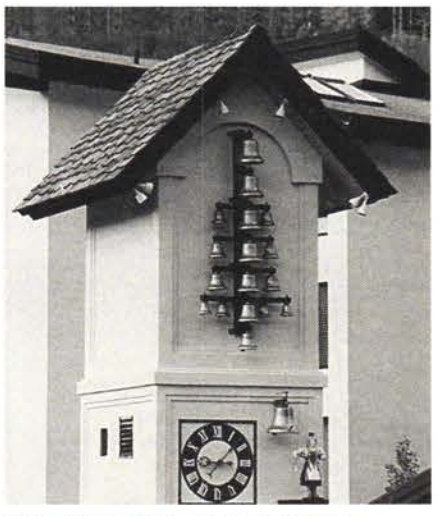


This conservatory, located in New York State, doubles as a year-round artist's studio. OAK LEAF CONSERVATORIES. *Write in No. 686*

SMOOTH-ON flexible moldmaking materials were used to recreate this oversized wall and balustrade. *Write in No. 65*

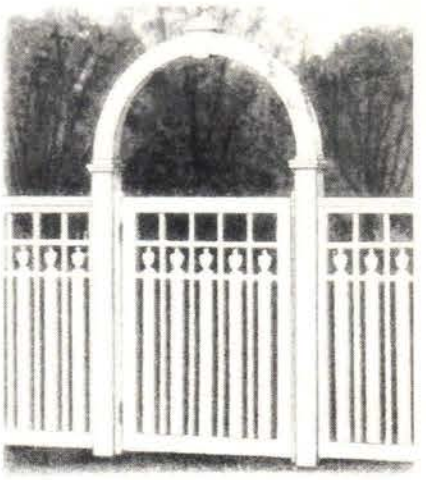


JEFFREY MILLS & CO. fabricates traditional planters and pergolas in cedar and teak. *Write in No. 667*



Vail, Colo., is the location of this computer-controlled animated glockenspiel and tower clock from ELDERHORST BELLS, INC. *Write in No. 210*

TIERRA Y SOL distributes handcrafted and handpainted urns, vases, and other stone products. *Write in No. 993*

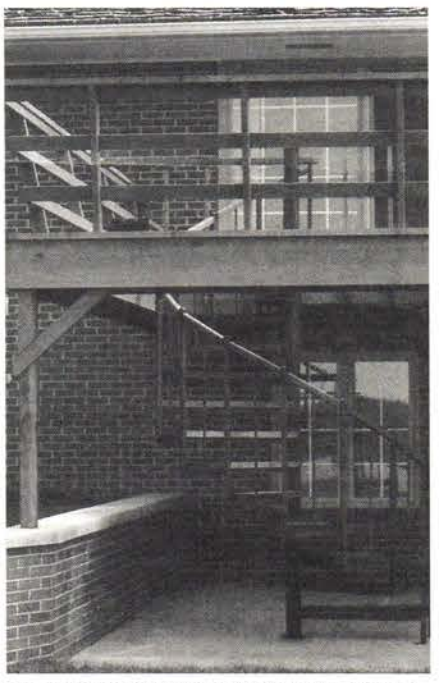


SUMERSET ARBORS' garden gate is available simply as an entryway or with attached gate. *Write in No. 672*

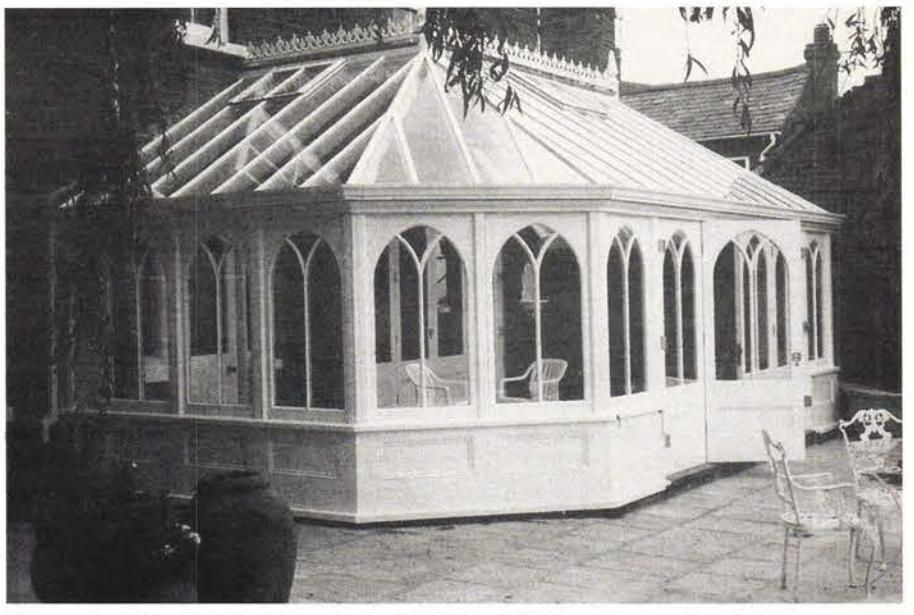
This armillary sundial is from LA HAYE BRONZE. *Write in No. 916*

LAMPLIGHT INDUSTRIES/ RENAISSANCE DESIGN produces detailed cast-iron posts with dial housings in aluminum. Dials are backlit, and the remote control time set with reference clock can be mounted anywhere. *Write in No. 647*

TRADITIONAL CONCRETE PRODUCTS, INC., makes light poles with a rigid construction that is less prone to "wind sway" and saltwater corrosion than other, less dense materials. *Write in No. 924*



GODDARD MANUFACTURING CO. makes these standard exterior spiral stairs using welded steel construction. *Write in No. 478*



Elements of the Gothic style are used in this wide bay conservatory from WINTERGARDEN, LTD. *Write in No. 867*

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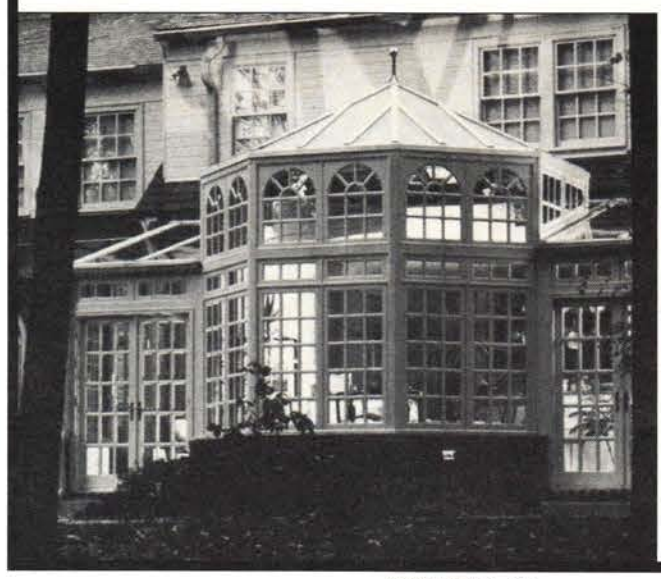

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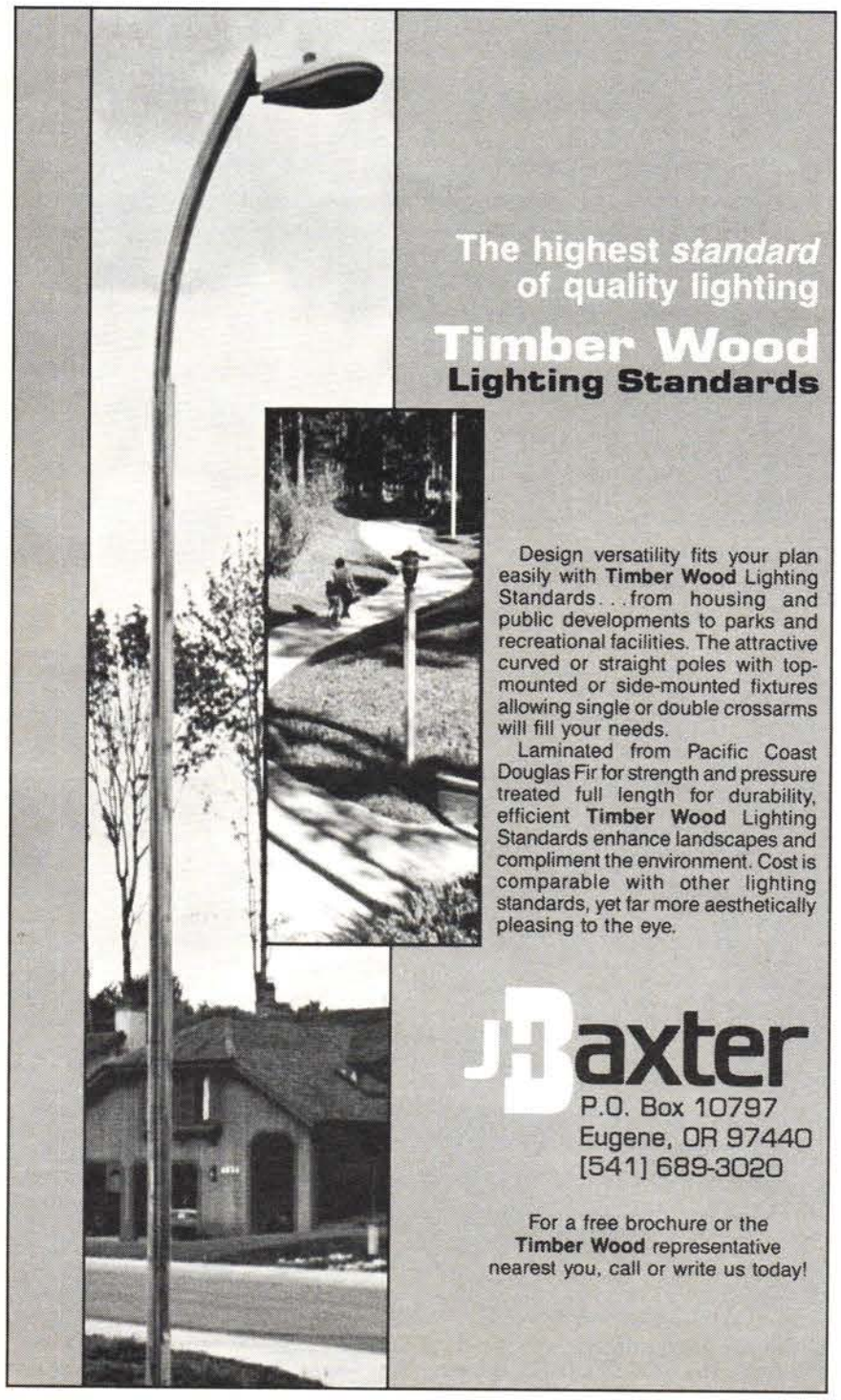

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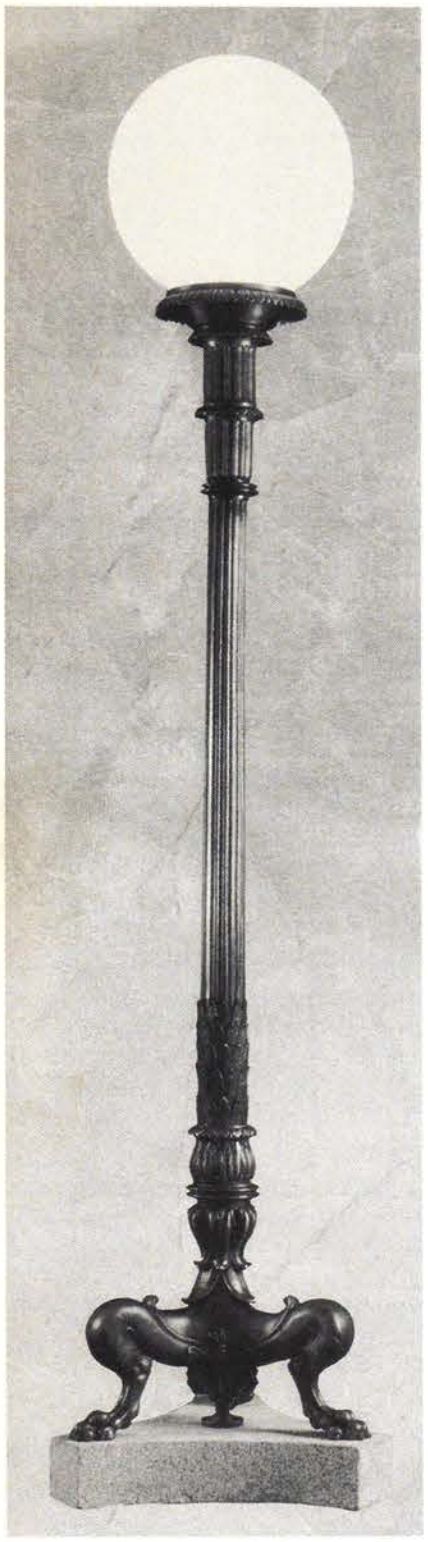
For more information on these companies, consult the SourceList on pp. 100-116.



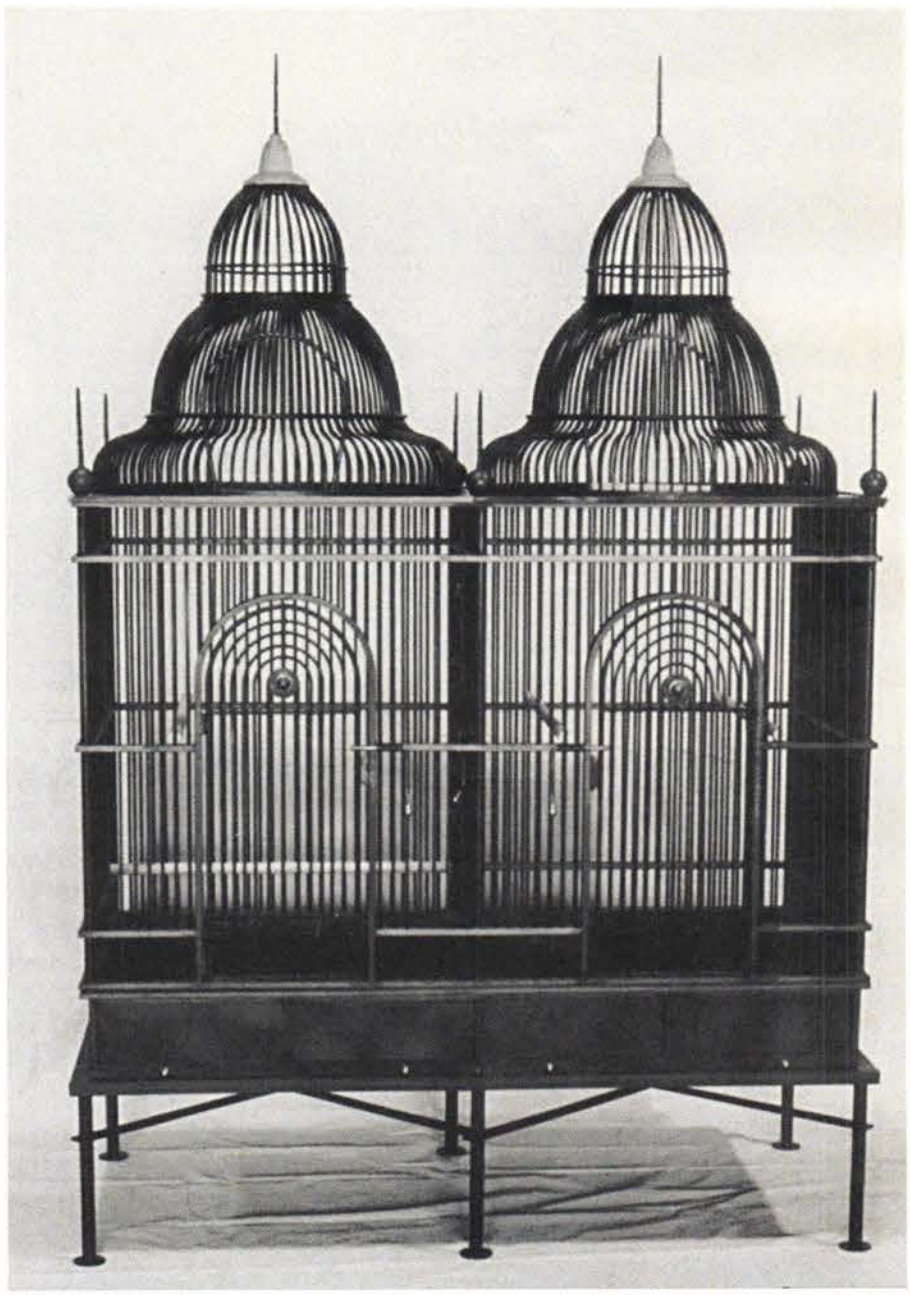
Cast-bronze light standards wer reproduced for the Scottish Rite Cathedral, in St. Louis, Mo., in 1990. ST. LOUIS ANTIQUE LIGHTING *Write in No. 619*

NEWSTAMP LIGHTING CO. specializes in the restoration of lighting, including this wrought-iron fixture, c.1880, at a Boston school. *Write in No. 80*

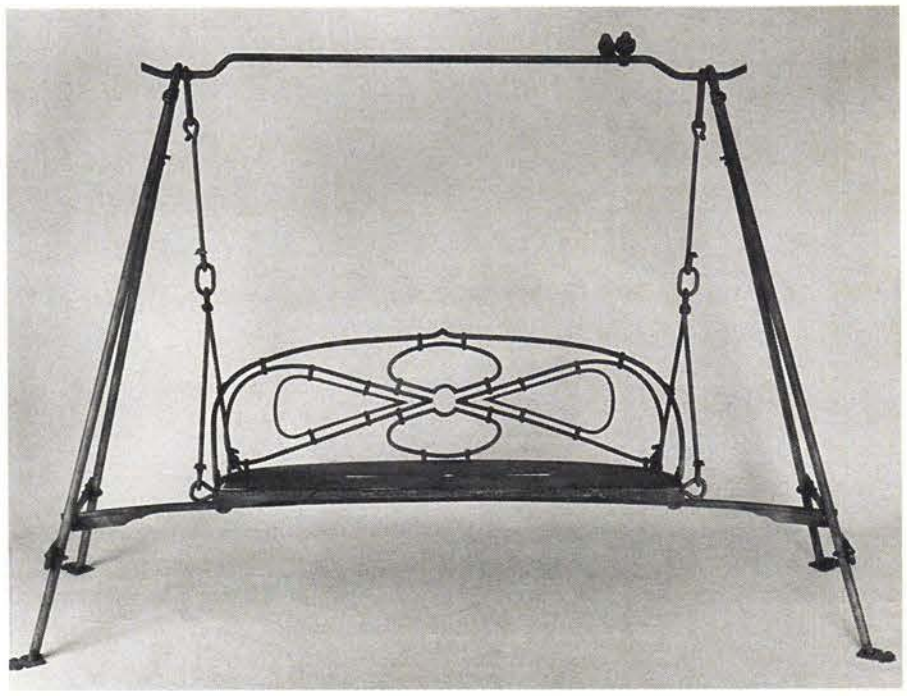
CONANT CUSTOM BRASS manufactures Victorian-style outdoor thermometers, wreath hangers, and bird feeders. Here is the HBF-2 "Heirloom" with solid copper frame and unbreakable food chamber. *Write in No. 62*

The "Borough" cast-iron post from SPRING CITY ELECTRICAL MFG. is available in heights of 8-ft.6-in. or 10-ft. *Write in No. 103*

STONE LEGENDS' cast stone caps and trim are perfect accents for the classical landscape. *Write in No. 863*



The Victorian conservatory often housed a canary in a cage, and this version, from RUFFNER & CO., features two separate chambers. *Write in No. 775*



This bronze garden swing with two hand-hammered lovebirds perched on top is hand-forged by COE STUDIOS and measures 6-ft. H. and 9-ft. W. *Write in No. 83*

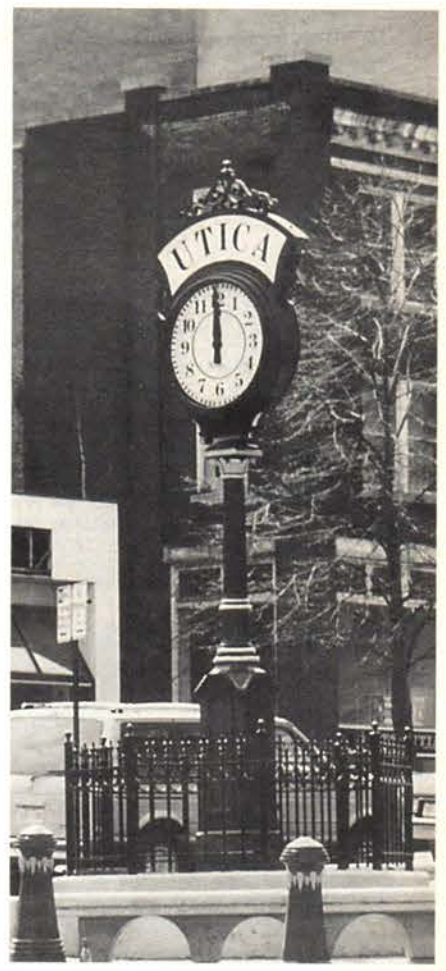
LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

For more information on these companies, consult the SourceList on pp. 100-116.

Pavers with wirecut finishes from RICHTEX BRICK come in standard sizes of 4x8 and 8x8-in. regular and modular units. *Write in No. 213*

OLD CAROLINA BRICK, hand molded and coal fired, is shown here being removed from wood molds. *Write in No. 313*

A 54-in. custom cast-iron urn, fabricated by ARCHITECTURAL IRON for the Brooklyn Borough Hall, was based on the architect's sketch.



HERWIG LIGHTING fabricated the street clock and bollards used on this Utica, N.Y., streetscape. *Write in No. 913*

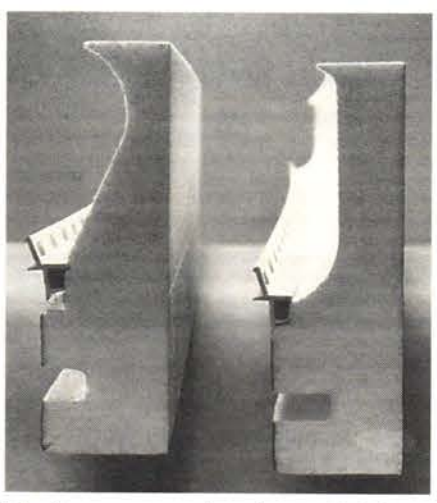
BRUCE POST CO. sells center-drilled redwood and cedar posts in several styles, including the turned style shown here, and in lengths from 8-14 feet. *Write in No. 141*

This traditional hip-roofed conservatory with douglas fir frame, 16-ft. H. by 20-ft. W., is from GLASS HOUSE. *Write in No. 187*

The walkway to the Charter Oil Co. headquarters in Jacksonville, Fla., is covered with pavers from LONDON TILE CO. *Write in No. 50*

This gate, built by WALPOLE WOODWORKERS, was custom created to the owner's specifications, which included English lattice and pergola details. *Write in No.* 28

Nestled in the greenery is CITY VISIONS' Doric Garden Seat. *Write in No. 903*



The Lumenyte pool perimeter lighting system from MORTEX MANUFACTURING CO. uses these cantilever forms. *Write in No. 301*

This wrought-iron gate from TRIEBENBACHER BAVARIAN IRON WORKS is from their catalog of cast-iron and wrought-iron rails, fences, gates, and architectural elements. *Write in No. 761*

BALL & BALL fabricates polished cast brass knockers, including the large fox (#W213), shown. *Write in No. 293*

LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

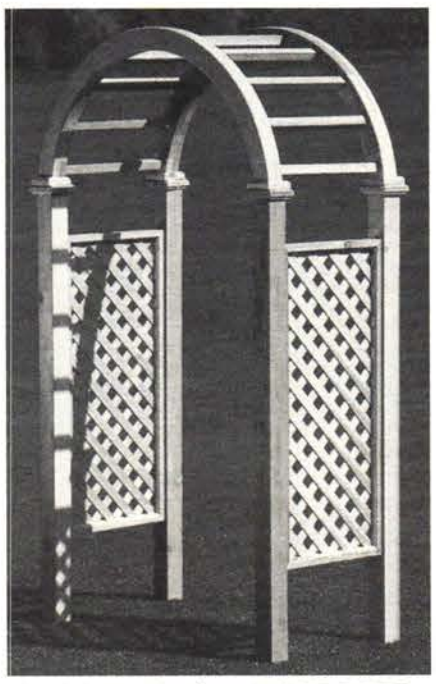
For more information on these companies, consult the SourceList on pp. 100-116.

GRANEY & ASSOC.'s custom ironworking capabilities includes this transom grille. *Write in No. 484*

Based on a street light found in that city, the Boston street light from LIGHTING BY HAMMERWORKS features a handspun finial. *Write in No. 509*

This grille is one of a set of four reproduction grilles fabricated by FINE ARCHITECTURAL METALSMITHS, with buttonhead scrolls and acanthus leaf detailing, for a building on Central Park West in New York City. *Write in No. 264*

The #400 Medici lead urn is from FLORENTINE CRAFTSMEN. *Write in No. 439*

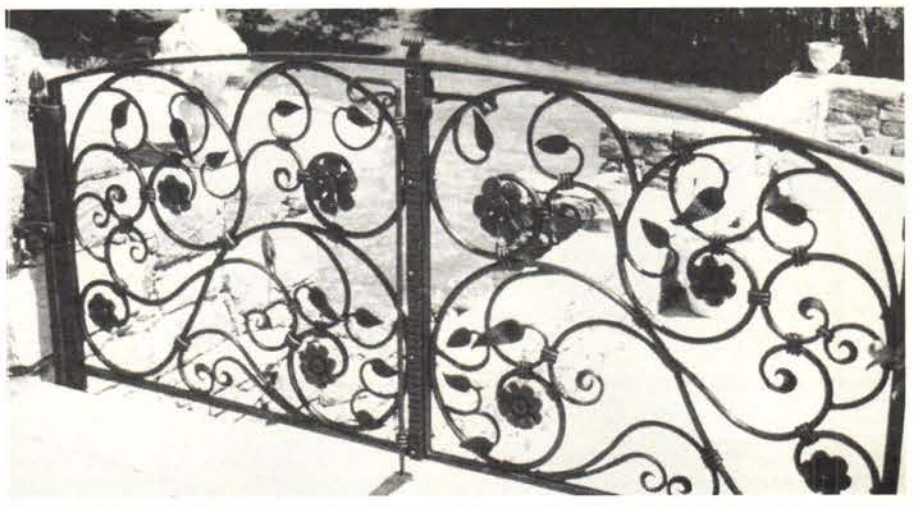


The deluxe arbor from WOOD INNOVATIONS OF SUFFOLK features a laminated cedar 2x6 ft. arch, lattice panels, and a routed cap. *Write in No. 716*

STERNBERG VINTAGE LIGHTING's "Boulevard" fixture was used at Whittier College in Calif., and was fixed on "Lincoln" poles for parking areas and walkways. *Write in No. 674*

VULCAN SUPPLY specializes in replicating historic architectural sheetmetal for roofing, but also creates lanterns, fountains, and other garden ornament. *Write in No. 721*

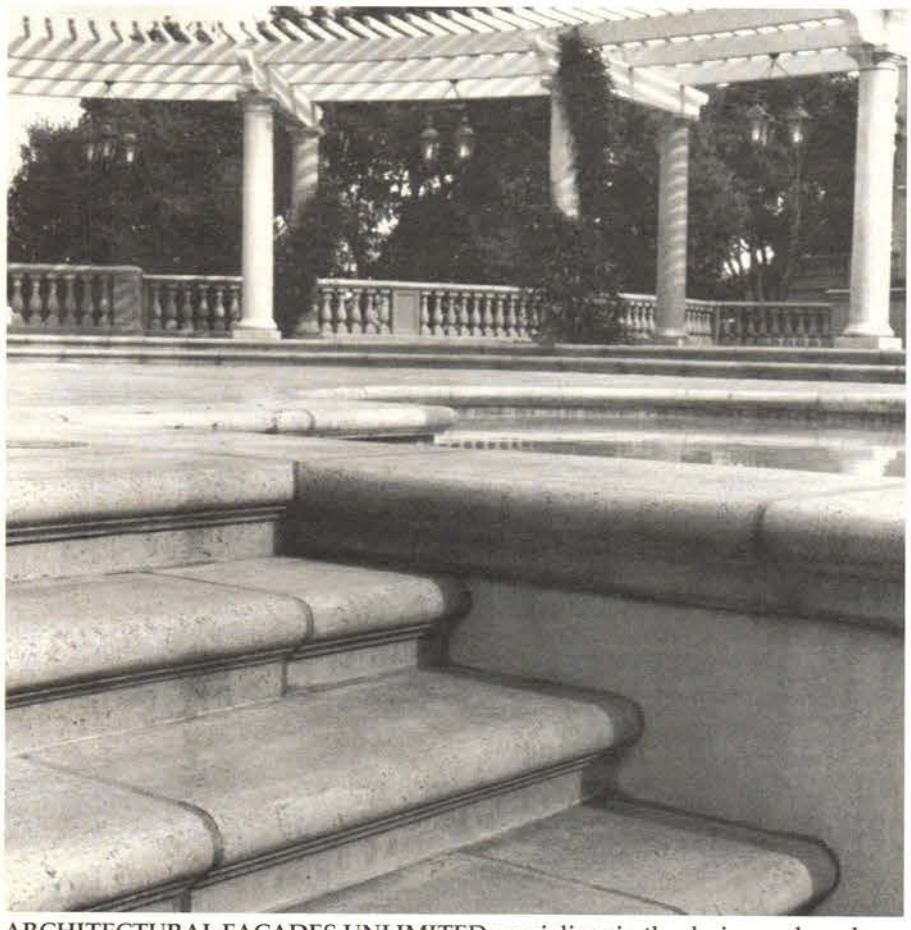
CUSTOM STONE SUPPLY is a distributor of Pilgrim Granite, used for paving and banking this poolside. *Write in No. 757*



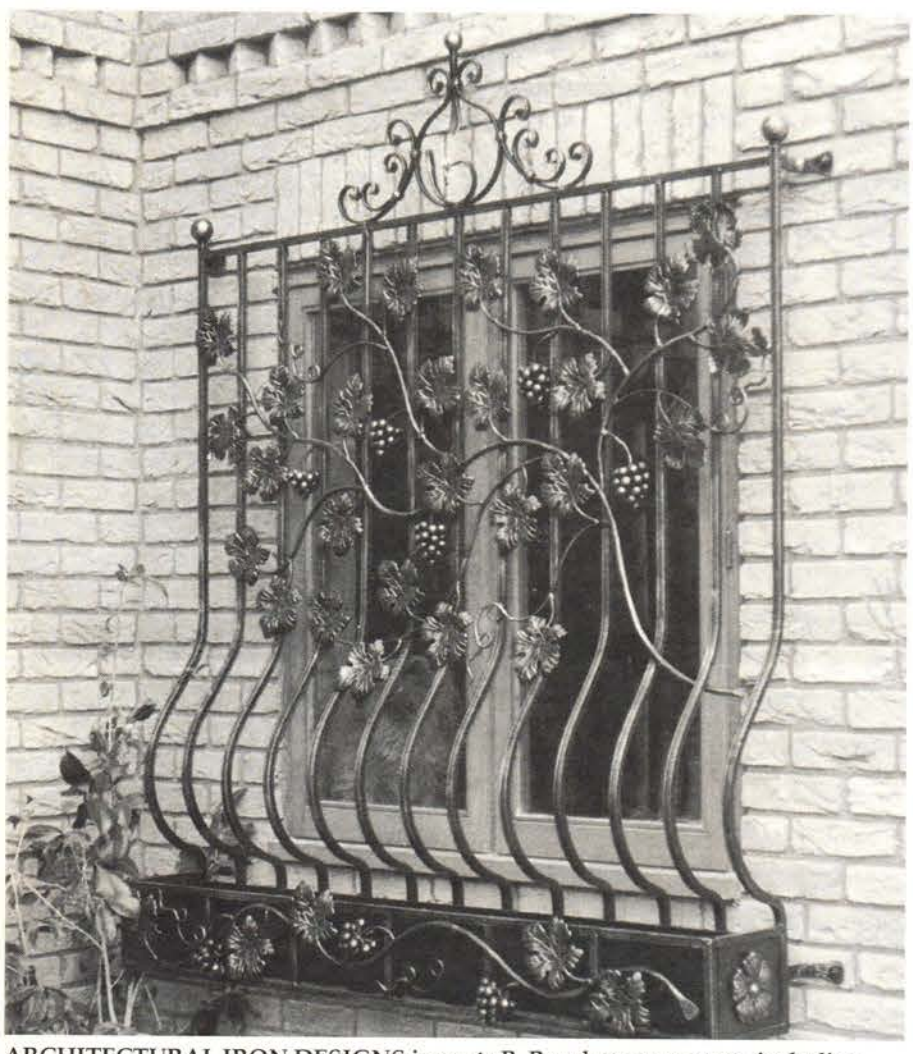
STAR METAL created these wrought steel, hot dip galvanized garden gates for a Greenwich, Conn., residence. *Write in No. 743*

LANDSCAPES, STREETSCAPES & GARDENS PORTFOLIO

For more information on these companies, consult the SourceList on pp. 100-116.



ARCHITECTURAL FACADES UNLIMITED specializes in the design and production of precast pool copings, stairs, fountains, and other elements. *Write in No. 147*



ARCHITECTURAL IRON DESIGNS imports B. Rourke components, including this ornamental window grille with climbing grape vines. *Write in No. 795*

This fountain by ARCHITECTURAL ORNAMENTS, INC., was fabricated for a historic mansion in Kansas City, Mo., and combines a steel-reinforced precast concrete bowl, and cast-stone coping. The design is based on decorative terra cotta on the mansion's facade. *Write in No. 96*

This custom pavilion, by KENNETH LYNCH & SONS, is 12-ft. H. and 15-ft. dia. and is fabricated in cast stone with a steel frame. *Call (203)762-8363 for information.*

This BRASS LIGHT GALLERY post mounted garden lantern shows an Arts & Crafts influence. *Write in No. 889*

This gazebo from RIVERTOWN PRODUCTS demonstrates another use for the garden structure. *Write in No. 494*

ECHEGUREN SLATE, with colored pieces of dark earthtones, was used to pave this residential deck. *Write in No. 722.*

COPPER GARDENS' work includes this copper Gothic-style walkway arch that measures 9-ft. 8-in. H. by 8-ft. W. *Write in No. 677*

TRICON's mystic gray and bluestone exposed aggregate pavers were used for this driveway. *Write in No. 771*

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SPANNING WOOD BRIDGES

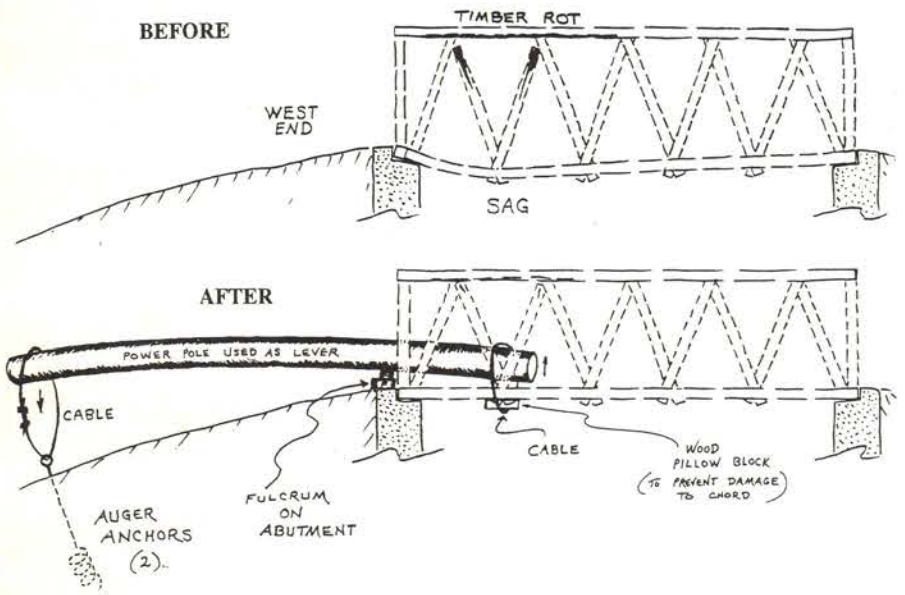
FOR A WETLANDS WALKWAY, A COVERED BRIDGE, PEDESTRIAN OR LIGHT VEHICULAR TRAFFIC, WOOD IS GAINING RENEWED RESPECT AS A DESIRABLE CONSTRUCTION MATERIAL.

BY CLEM LABINE

Wood, as a natural material, fits our growing desire to use earth-friendly materials and methods whenever possible in design and construction. So wood is being viewed with fresh interest in bridges in gardens, parks, golf courses, developments, and pedestrian and vehicular traffic applications. In addition, the preservation movement has heightened the desire to preserve and restore the dwindling stock of covered bridges and other timber bridges in the U.S. This trend has been accelerated by the increasing popularity of timber-frame construction (see *TRADITIONAL BUILDING*, Mar./Apr. '96, p. 72), which has created a growing pool of skilled heavy-timber contractors capable of both restoring old bridges (thus conserving natural resources) and building new ones from scratch.

For traffic applications, where desirability is judged on cost/performance ratios rather than aesthetics, steel and concrete have long been king. But new timber products and advanced design techniques are making wood more competitive as a construction material for vehicular bridges. Glue-lamination technology, coupled with reinforcements of steel or glass fibers, can create wood beams capable of longer spans at lower cost than solid timbers cut from a single log. The Timber Bridge Information Resource Center is actively promoting research and demonstration projects in this area (see *SourceList* on pp. 150-151 for contact information).

However, it seems likely that wood bridges will continue to find their primary applications on projects where aesthetics or historical considerations are paramount, with some additional spot usage on low-traffic rural roads.



The Salt Creek Covered Bridge, Muskingum County, OH, built in 1876, is believed to have the only pure, intact Warren truss still standing in North America. The bridge recently required emergency repairs because lack of roof maintenance had led to rot in some truss members, causing the bridge to sag. Lacking funds for immediate new timberwork, and wishing to avoid placing cribbing in the stream bed, John Smolen, Ashtabula County Engineer, devised the ingenious temporary fix shown. (Smolen is also a member of the Ohio Historic Bridge Assn. and has done much for the restoration and repair of the area's wood bridges.) A local utility company donated a wood utility pole that was used as a giant lever. With wood pillow blocks, one end of the pole was attached to the sagging chord with heavy cable. The other end of the pole was attached by heavy cable to ground augers; the bucket of a front-end loader was used to apply pressure to the pole-lever to bring the bridge back up to level. Cables were tightened to the ground augurs, securing the bridge until more permanent repairs can be made. Total time for the repair: 2.5 hours. (A recent grant through the Federal Highway Administration's ISTEA program means that the Salt Creek Covered Bridge will soon get its needed long-term repairs.)

WOOD BRIDGE RESTORATION

At the hands of highway engineers, wood bridges have suffered the same fate as many historic buildings: "That thing can't be fixed; let's tear it down." But the proliferation of concrete and steel highway bridges across the American landscape has underscored the importance of saving the few wood bridges that remain from the 19th and early 20th centuries. A number of historic bridge associations have sprung up across the country — and these groups have been assisted in their efforts by the growing number of heavy-timber contractors qualified to handle wood bridge restoration.

For instance, the Ohio Historic Bridge Assn. is a small but vigorous organization actively working on programs to preserve, repair, and restore the covered wood bridges in Ohio. (See contact information at the end of this article.) An example of the Association's energetic action is their emergency stabilization of the Salt Creek Bridge, shown elsewhere on this page. They are also helping to develop preservation guidelines for Ohio's remaining wood bridges, as well as introducing new technology — such as using ultrasound to help detect hidden rot in bridge timbers.

Dean Fitzgerald, a heavy-timber contractor who has restored a number of covered wood bridges, asserts that wood bridges are actually superior to modern steel bridges because "they are a pleasure to look at, draw tourists, cost less to maintain, and help build a sense of community by providing a notable landmark." On the issue of maintenance, Fitzgerald, who is also founder and current president of the Frederick County Covered Bridge Preservation Society, notes that a modern bridge will last 25 to 30 years before falling victim to the ravages of road salt and weather. "A covered bridge, on the other hand, can last indefinitely because the roadbed isn't open to the elements and doesn't need to be salted. And when repairs are needed, a wood bridge is easier and cheaper to fix than a modern one."

To buttress his claim, Fitzgerald points to the Roddy Road covered bridge in Thurmont, Md., that he recently restored. The 40-ft. span was built in 1856, and has been in service ever since, surviving even a 1992 incident when a too-tall truck tore out

continued on page 148

When the city of Guelph, Ont., needed a new bridge over the Speed River, they hired Jan Lewandoski of Restoration & Traditional Building, Greensboro, VT, to direct the construction and moving of the timber bridge into place over the river. Volunteers from the Timber Framers Guild provided most of the manpower — as well as initially proposing the concept to the city of Guelph. The 132-ft. single-span bridge uses the Town lattice truss system. The trusses were constructed on land, rolled to the river edge, and lifted into place with a crane to minimize the cost and danger of working for long periods over water. *(Photo: Don Alexander)*

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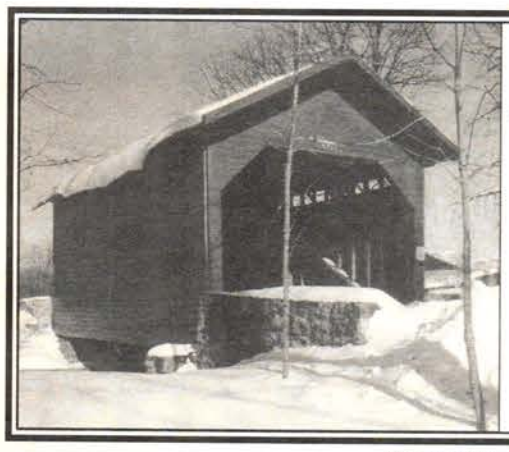

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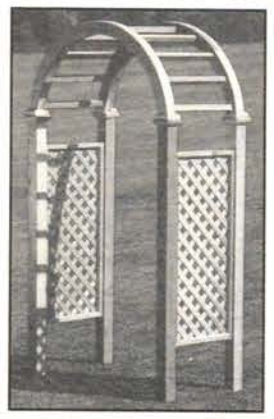

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WRITE IN NO. 345

some of the wood roof supports. Though still in use, the structure was badly in need of maintenance, and might have been a candidate for replacement had Fitzgerald not been able to organize a crew of volunteers to repair the truck damage. Eventually, the local government allocated funds to totally upgrade the structure and Fitzgerald's firm was hired to perform the much-needed work. Among the repairs made: Replacing and repairing posts, beams, and gables; splicing new wood at bridge corners; adding white oak bolster blocks; correcting a 3-in. negative camber sag; treating the bridge with "No Char" fire retardant; and installing street lights. "After these repairs, Roddy Road Bridge is ready for another century of service," says Fitzgerald.

Cory Coils, a craftsman with Fitzgerald Heavy Timber Construction, fastens new oak flooring to the Roddy Road Covered Bridge, Thurmont, Md. The process consumed 250 lb. of 8-in. hot-dipped galvanized cut nails. Before repairs, the bridge was restricted to 4 tons; with the repairs, the bridge is now certified to carry 15 tons.

NEW WOOD BRIDGE CONSTRUCTION

Despite the romance — and importance — of restoring historic wood bridges, the bulk of the wood bridge work today is new construction. A number of timber contractors have even built new covered bridges within the past few years. For example, York Bridge Concepts, a specialist in landscape and golf course installations, recently built a 70-ft. covered bridge for a golf course in Brainerd, MN. And the new Guelf, Ont., covered bridge is pictured on the previous page.

Growing environmental concerns have also created an additional market niche for wood bridges. When wetlands and other environmentally sensitive terrain must be crossed, raised wooden bridges and walkways not only look more "natural," but they also can be put in place without the heavy, earth-scarring construction machinery normally required for a "modern" bridge. In addition, the flexibility inherent in designing and building in wood enables wooden bridges and walkways to fit comfortably into almost any type of landscape or waterscape. (See the accompanying sidebar on the new bridges at the Casino Magic golf course.)

ORNAMENTAL WOOD BRIDGES

For small pedestrian bridges, such as those for gardens, parks, and golf courses, prefabricated bridge kits are available from a number of suppliers. Depending on size, these kits can be shipped either completely pre-assembled or in partially assembled sections, ready to be bolted together on site.

John Rogers of BowBends, a leading firm supplying prefabricated ornamental wood bridges, makes the distinction between bridges designed by engineers for utility, and bridges engineered for BEAUTY. Roger's contention is that it's possible to satisfy engineering requirements for public safety and at the same time produce a bridge that evokes visual delight. For example, Rogers is a great believer in triple- arch construction, with the thickest arch in the center and smaller arches on the outside for a more delicate, lighter appearance (the center arch bears half the load).

Jan Lewandoski (left) of Restoration and Traditional Building poses proudly with Paul Ide and Don Estes, showing the "bolt of lightning" scarf tension joint they cut in the bottom chords of an unerected truss for the Lowes Bridge, Guilford, Me. The craftsmen replicated the original Long Truss framing for the historic 147-ft. single-span traffic bridge.

Rogers also passes along these other pointers for specifiers of ornamental arched or bowed bridges:

- Highest quality bridges use *kiln-dried* pressure-treated wood. (Rogers prefers Southern yellow pine.) Sealing end grain with an epoxy sealer also helps extend wood life.
- For decking, narrow boards (e.g., 1-1/8 in. x 1-3/4 in.) create a more refined effect than standard 2x4's. To support the narrower boards, three arches would be used to support a 4-ft. wide bridge.
- A 4-ft. interior width allows two people to walk across side by side.
- Making the length of a bowed bridge equal to the radius of the arch creates a bridge that is comfortable to climb.
- On a painted arched bridge, leave an unpainted path in the decking for traction — or add some grit to the deck paint. When new enamel gets wet, it can be very slippery.
- If the client wants the bridge unpainted, improve its water resistance by applying two coats of boiled linseed oil or tung oil. This application should be renewed every three years.
- For private garden applications, the design load is 40 lb./sq. ft. For public uses, the design load is 80 lb./sq.ft. — requiring a larger arch.

As an example of the kind of creative challenges bridge builders can face, BowBends was asked to design and build a 60-ft. knockdown bridge that could be brought through the doors of a New York City art gallery and reassembled

continued on page 151

WOOD BRIDGES OVER WETLANDS

Wood bridges are the most appropriate way to cross wetlands and other environmentally vulnerable areas. Case in point: The large project that York Bridge Concepts is currently completing at the Casino Magic golf course on Mississippi's Gulf Coast. The Arnold Palmer-designed 18-hole championship course is being built in an eco-sensitive area hemmed in by environmental constraints: The course is surrounded by vast, environmentally fragile delta wetlands fed by the tidal waters off the Gulf of Mississippi.

Over 4,000 ft. of timber bridging snakes through the wetlands surrounding the new "Bridges at Casino Magic" golf course development.

Over 4,000 feet of wetlands crossings and over a mile of retaining walls, all constructed of wood timbers, were designed and built on site by York Bridge. "On a project of this size and in this terrain, the bridge work became an integral part of the overall course construction," observes James York, president of the Tampa-based timber construction company. As a consequence, the golf course builders wanted York Bridge on the site much earlier than normal. "Because there was far more bridge work on this project than on the typical golf course, we had to work very closely with the contractor, Ranger Construction, and coordinate all of our efforts in order to build each bridge," York notes.

The bridges and walls on the Mississippi course are all made of treated Southern Yellow Pine and custom-built on site. The 10-ft. wide wetlands crossings are pile-supported and are rated at 5 tons. York Bridge worked closely with the architect and owner to design and craft each bridge so that it blends in with its surroundings.

As part of the adherence to strict environmental guidelines, all of the York bridges were built from "the top down": All of the construction equipment needed for the bridges worked from sections of the bridgework already completed, so that the machinery never came in contact with the wetland. The construction crews were also scrupulous about removing all work debris at the end of each day.

The 6,000 feet of companion timber retaining walls, smoothly curved and pleasing to the eye, were crafted to change height and direction in an artful manner. They also serve a practical purpose: To prevent erosion and runoff from damaging the elevated fairways and tees. According to James York: "When we build retaining walls, not only do we curve them, but we contour their height to fit the elevation changes in a smooth fashion."

York's wooden bridge work is so extensive and so distinctive that it has inspired the name of the new course: The owners of the casino development are calling the new championship golf course "The Bridges at Casino Magic."

The timber crossings are built "from the top down": All heavy equipment for their construction crosses only on sections of already completed bridgework.

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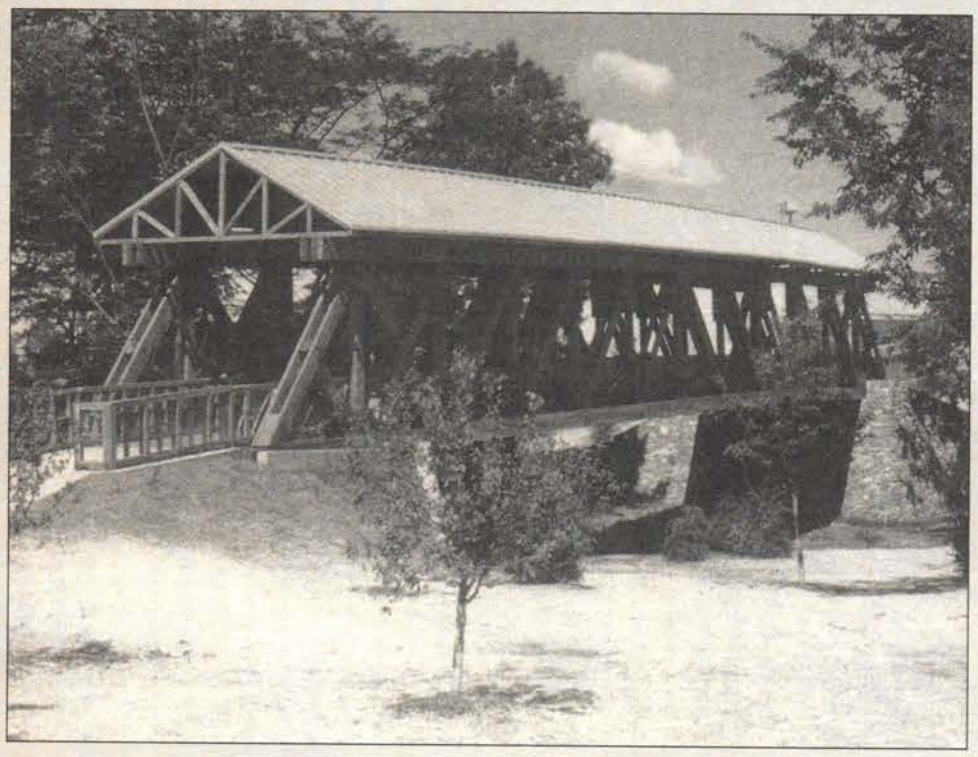

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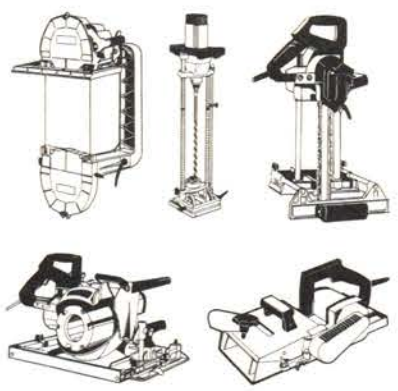

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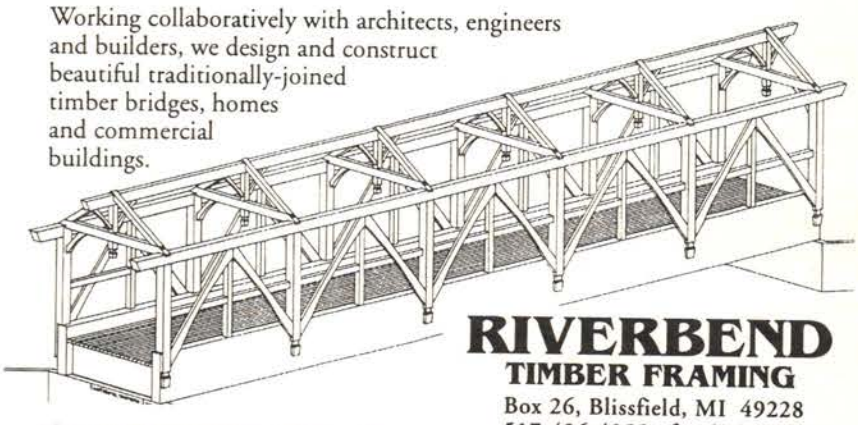

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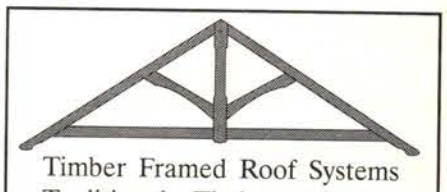

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"When contacting companies you've seen in the issue, please tell them you saw their listing in Traditional Building."
— The Editors

TRADITIONAL BUILDING's WOOD BRIDGES *SourceList*

CSI# 02890

COMPILED BY CLEM LABINE

COMPANY	SPECIALTY	Literature	BRIDGE TYPES				APPLICATIONS				Other
			Short Span	Truss	Covered	Other	Pedestrian	Garden/ Golf Course	Vehicular	Ornamental	
Alamco Wood Products, Inc. **1410 W. 9th St., Dept. TB** **Albert Lea, MN 56007** **507-373-1401; Fax: 507-373-8116**	Produces glue-laminated wood pedestrian, golf course, and vehicular bridges in lengths up to 100 feet.	Free	✔			Wood girder bridges	✔	✔	✔		Guard rail, posts, noise wall panels
American Laminators **P.O. Box 297, Dept. TB** **Drain, OR 97435** **541-836-2000; Fax: 541-836-7123**	Glue-laminated timber bridges and fiber-reinforced timber bridges.	Free	✔	✔		Wood girder bridges	✔	✔	✔	✔	
Architectural Timber and Millwork **P.O. Box 719, Dept. TB** **Hadley, MA 01035** **413-586-3045; Fax: 413-586-3046**	Custom fabrication of traditional and contemporary timber bridges. Also: Full range of survey, design, structural, ornamental fabrication, rigging, and installation services for heavy-timber historic structures.	Free	✔	✔	✔		✔	✔	✔		Custom and prefabricated bridges
Blue Ridge Timberwrights **2030 Redwood Dr., Dept. TB** **Christiansburg, VA 24073** **540-382-1102; Fax: 540-382-8039**	Construction team with extensive timber bridge experience, including covered bridge projects. Skilled at traditionally joined heavy-timber structures.	Free	✔	✔	✔		✔	✔	✔	✔	Custom bridges
Boro Lumber and Timber **7 Railroad Pl., Dept. TB** **Flushing, NY 11378** **718-821-3600; Fax: 718-821-7521**	One of the largest timber suppliers and custom milling facilities on the East Coast: Timbers for bridge buildings, construction, railroads, landscape, and marine applications. Inventory of heavy bridge timbers 16 in.x16 in. and up to 40-ft. long.	Free Write in No. 108	✔	✔	✔	Girder bridges, custom milling and fabrication, landscape timbers	✔	✔	✔		Bridge timbers, pilings, guard rails
Bow House/BowBends **P.O. Box 900, Dept. TB** **Bolton, MA 01740** **508-779-2271; Fax: 508-779-2272**	Specialist in ornamental wood bridges, especially arched and bow bridges, that combine sound engineering with design that maximizes delicacy and beauty. Bridges available up to 50 ft. long. Also makers of exotic garden structures, gazebos, arbors, follies, privies, treillage, and more.	Free Write in No. 345		✔		Bow and arched bridges	✔	✔		✔	Custom and prefabricated bridges in both stock and custom designs
Bridge Builders **5942 Georgia Hwy., Dept. TB** **Franklin, NC 28734** **800-874-9403; Fax: 704-524-5441**	On-site builders of custom, solid-timber bridges from southern yellow pine with galvanized hardware. Specialists in bridge construction through ecologically sensitive areas, such as wetlands, uplands, and drylands.	Free				Custom wood girder and trestle bridges	✔	✔	✔		Custom bridges built on site
Christian & Son, Inc. **15022 Gearhart Rd., Dept. TB** **Burbank, OH 44214** **330-624-7282**	Specialist in heavy timber framing, with particular interest in wood bridges. Is working on preservation and restoration projects involving historic covered bridges in Ohio.	Free		✔	✔	All traditional truss systems	✔	✔	✔		Consulting services
W.D. Cowls, Inc. **P.O. Box 9677, Dept. TB** **North Amherst, MA 01059** **413-549-1403; Fax: 413-549-0000**	Pine, oak, and hemlock timbers up to 26-ft. long. Certified grade stamping of lumber and timbers.	Free Write in No. 527									Heavy timbers up to 26 ft. long
Craftsman Lumber Co. **P.O. Box 222, Dept. TB** **Groton, MA 01450** **508-448-5621; Fax: 508-448-2754**	Supplier of extra-large timbers. Also: Wide pine and oak vertical and horizontal flooring, Victorian beaded or v-groove solid-wood paneling and wainscot.	Free Write in No. 432									Extra-large timbers
Dreaming Creek Timber Frames **2487 Judes Ferry Rd., Dept. TB** **Powhatan, VA 23139** **804-598-4328; Fax: 804-598-3748**	Custom timber framing, covered bridges; residential, commercial, barns, nationwide; in-house design and erecting crew. Heavy timber supplier up to 45 ft.	Free	✔	✔	✔	Bridge cabins	✔		✔		Timber frame systems and trusses
Evenson Natural Resources **P.O. Box 157, Dept. TB** **Petrolia, CA 95558** **707-629-3679; Fax: Same as phone**	Offers used heavy timbers salvaged from industrial structures; redwood, Douglas fir, and Port Orford cedar.	Free									Recycled heavy timbers
Fitzgerald Heavy Timber Construction **Box 143, Dept. TB** **Thurmont, MD 21788** **301-271-1843; Fax: 301-271-1842**	Repairs to historic covered bridges and timber frames a specialty; construction of new covered bridges with professional engineering services available, along with custom sawing and planing. Custom trusses built with engineering certification.	Free Write in No. 230		✔	✔	King post, queen post, multi-king, Howe, Burre, and Towne trusses	✔	✔	✔		Custom fabrication of elements for historic wood bridge restoration
Green's Timber Works **1014 O'Connell Dr., Dept. TB** **Bozeman, MT 59715** **406-585-2494**	Timber frame construction specialist also has experience with timber bridges and covered bridges.	Free	✔	✔	✔		✔		✔		Timber frames and trusses
Greenheart Durawoods, Inc. **665 Rte. 9 N., P.O. Box 279, Dept. TB** **Bayville, NJ 08721** **800-783-7220; Fax: 908-269-9797**	Supplier of pau lope, a naturally rot-resistant wood that finds extensive applications in decking for wood bridges, walkways, porch and deck materials.	Free Write in No. 814	✔	✔	✔	Bridge, decking, and landscape timbers	✔	✔		✔	
Hermitage Gardens **P.O. Box 6361, Dept. TB** **Canastota, NY 13032** **315-697-9093; Fax: 315-697-8169**	Variety of landscape products, including ornamental Japanese rainbow bridge. Installation available in North America; will ship worldwide.	Free				Japanese rainbow bridge		✔		✔	Custom fabrication
Laminated Concepts, Inc. **372 W. Fourth St., Dept. TB** **Elmira, NY 14901** **607-732-2218; Fax: 607-732-2631**	Supplier of glu-lam timber highway and pedestrian bridges. Furnish hardware on bridge guide rails. Bridge rails satisfy AASHTO PL-1.	Free	✔			Glue-laminated timber decking on existing steel stringer bridges.	✔		✔		Custom and prefabricated bridges
Mafell North America **80 Earhart Dr., Unit 9, Dept. TB** **Williamsville, NY 14221** **716-626-9303; Fax: 716-626-9304**	Manufacturers of portable machines for cutting large timbers and beams: Cutter heads; mortising chains; circular saws; band saws; chain saws; skew notch, lap joint, and tenon-cutting machines; planers; mortisers; more.	Free Write in No. 669									Timber cutting and shaping equipment
National Soc. for the Preservation of Covered Bridges **Box 171, Dept. TB** **Westminster, VT 05158** **802-722-4040**	National society to promote the preservation of the remaining covered bridges in the U.S.	Free									Information on covered bridge restoration.
Permapost **P.O. Box 100, Dept. TB** **Hillsboro, OR 97123** **503-648-4156; Fax: 503-648-6383**	Covered bridges, truss bridges, trail bridges, and fabricated parts for historic bridge restoration. Also, log house components, and other fabricated and treated wood products.	Free	✔	✔	✔	Trail bridges	✔	✔	✔		Parts for historic wood bridge restoration; approach guardrail and posts
Restoration & Traditional Building **RFD, Dept. TB** **Greensboro Bend, VT 05842** **802-533-2561**	Specialist in repair of historic timber frame structures, particularly bridges, churches, barns, and public buildings. Has worked on historic timber projects throughout New England and mid-Atlantic states. Builds new wood bridges.	Free		✔	✔	All traditional truss systems	✔	✔	✔		Consulting services on bridges and other historic timber work

TRADITIONAL BUILDING's WOOD BRIDGES *SourceList*

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COMPANY	SPECIALTY	Literature	BRIDGE TYPES				APPLICATIONS				Other
			Short Span	Truss	Covered	Other	Pedestrian	Garden/ Golf Course	Vehicular	Ornamental	
Riverbend Timber Framing, Inc. **P.O. Box 26, Dept. TB** **Blissfield, MI 49228** **517-486-4355; Fax: 517-486-2056**	Design and construction of traditional hand-crafted timber frames for residential and commercial work in northern oak, Douglas Fir, pine, and reclaimed timbers. The frames are enclosed in structural insulated panels.	Free Write in No. 754	✔	✔	✔		✔		✔		Timber frames and trusses
Romancing The Woods **33 Raycliffe Dr., Dept. TB** **Woodstock, NY 12498** **914-246-6976; Fax: 914-246-1021**	Re-creators of rustic garden and woodland structures made of Eastern red cedar in the romantic tradition of 19th-c. English and French estate gardens, and the Adirondack camps. Rustic wood bridges.	Free Write in No. 501	✔	✔		Rustic wood bridges	✔	✔		✔	Custom and prefabricated rustic wood bridges
Structural Wood Products, Inc. **P.O. Box 10446, Dept. TB** **Portland, OR 97210** **503-497-9177; Fax: 503-497-9182**	Design, engineering, and manufacture of wood bridges, from concept to jobsite delivery. Furnish all hardware, handrail, etc.	Free	✔	✔	✔		✔	✔	✔	✔	Custom and prefabricated bridges
Structural Wood Systems **P.O. Box 250, Dept. TB** **Greenville, AL 36037** **334-382-6534; Fax: 334-382-9860**	Site-specific and custom designed glue-laminated Southern pine for bridges of any type or function. Furnish hardware for connections and preservative treatment.	Free	✔	✔		Site-specific designs to spec	✔	✔	✔		Custom and prefabricated bridges
Timber Bridge Information Cntr. **180 Canfield St., Dept. TB** **Morgantown, WV 26505** **304-285-1591**	USDA Forest Service program to encourage use of wood in bridge applications. Sponsors demonstration programs to encourage innovative wood design and advanced-technology wood bridge products.	Free									Information on advanced wood bridge technology.
Timber Holdings, Ltd. **2400 W. Cornell Ave., Dept. TB** **Milwaukee, WI 53209** **414-445-8989; Fax: 414-445-9155**	Specializes in landmark timber bridges fabricated from naturally durable hardwoods. Custom and prefabricated designs for pedestrian and light vehicular loads. Engineering and design services for truss bridges and cable-stayed, dowel-laminated girders.	Free Write in No. 842		✔	✔	Cable-stayed, dowel-laminated girder	✔	✔	✔		Both custom and prefabricated bridges; design and engineering services
TimberFab, Inc. **P.O. Box 399, Dept. TB** **Tarboro, NC 27886** **800-968-8322; Fax: 919-641-4142**	Commercial and residential timber frames, handcrafted timber and log structures, architectural components, timber trusses, and roof systems.	Free Write in No. 570	✔	✔			✔	✔		✔	All bridge work custom
Unadilla Laminated Products **P.O. Box K, Dept. TB** **Unadilla, NY 13849** **607-369-9341; Fax: 607-369-3608**	Custom manufacturer of large glue-laminated beams and timbers used in bridge construction. Custom and prefabricated wood bridges.	Free	✔	✔		Girder bridges	✔	✔	✔		Longitudinal bridge decks, girder and transverse bridges
Western Wood Structures **P.O. Box 130, Dept. TB** **Tualatin, OR 97062** **800-547-5411; Fax: 503-692-6434**	Designers and suppliers of treated timber bridges from 20- to 200-ft. clear spans. Any width, any loading; all types of uses. Furnish field crews, all connecting hardware, and steel engineer stamp in most states.	Free	✔	✔	✔	Cable-stay	✔	✔	✔		Overcrossings, pipe supports; Both stock and custom designs
Wheeler Consolidated, Inc. **3340 Republic Ave., Dept. TB** **Minneapolis, MN 55426** **800-328-3986; Fax: 612-929-2909**	Design and manufacture of timber bridges for the recreation and vehicular market. Also, storage structures, retaining walls and cribs, and other heavy-timber construction.	Free	✔				✔	✔	✔		Guide rail, pilings, design
Wood Innovations of Suffolk **P.O. Box 356, Dept. TB** **Medford, NY 11763** **516-698-2345; Fax: 516-698-2396**	Exterior wood structures and elements in high-quality Western red cedar; custom arbors and other custom-built wood products. Walkways and decorative bridges built to client specs, or fabricator's specs. Shipping nationwide.	Free Write in No. 716	✔			Decorative and ornamental bridges	✔			✔	Both stock and custom designs available
York Bridge Concepts **P.O. Box 17259, Dept. TB** **Tampa, FL 33682** **800-226-4178; Fax: 813-932-6486**	Major provider of custom, on-site timber bridge construction; services the nation with professional crews, environmental experience, and a 3-yr. warranty.	Free Write in No. 662	✔	✔	✔	Custom wetlands crossings	✔	✔	✔		Specialized curb systems: K-rail, picket rail, and standard rail designs; custom cut-out seating areas

SPANNING WOOD BRIDGES
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inside. Part of the solution involved fabricating the decking tambour style, so that it could be unrolled and immediately laid down on top of the supports.

VEHICULAR WOOD BRIDGES

According to wood bridge expert Jan Lewandoski of Restoration & Traditional Building, Greensboro Bend, Vt., "More than 1,000 wood truss highway bridges, mostly 19th century in origin, continue to carry vehicular traffic in North America." And while new long-span wood bridges are frequently more expensive than equivalent steel or concrete bridges, short vehicular wood trusses (40 ft. and under) can be built quite economically and competitively, says Lewandoski.

In special circumstances, however, major new wood bridges are still being built (see photos of the Guelph, Ont., on p. 146). When floods washed away Lowes Bridge, a historic 148-ft. single-span covered bridge in Guilford, Me., the State of Maine elected to replace it in kind. Lewandoski's firm, working as a subcontractor to Chesterfield Associates, fabricated all the timber framing for the new bridge. It has many remarkable features duplicated from its original Long Truss design, such as the "Bolt of Lightning" tension splices in the bottom chord (see photo).

NEW HIGH-TECH WOOD BRIDGES

Where historic design is not an issue, considerable R&D is being done to make wood more competitive with steel and concrete. With the new steel-reinforced and glass-fiber-reinforced glue-lam technology, wood spans of 60 to over 100 feet are possible with single girder and arched units . . . eliminating the intricate joinery required by traditional wood truss construction. It's estimated that treated glue-lam beams should have a life of at least 50 years.

While many of the glue-lam bridge builders have catalogs and brochures showing their products, these are not stock off-the-shelf designs. Unlike smaller garden and park bridges, where you can get standard designs sized to your requirements (many in pre-assembled kit form), long-span wood bridges are invariably custom projects, designed and fabricated to meet local site and aesthetic requirements.

WHO'S ON THE SOURCELIST

In the supplier *SourceList* that begins on p. 150, the Editors have assembled 33 companies and resources for wood bridges. The list ranges from companies that supply large bridge timbers, to heavy-timber contractors skilled in wood bridge work, to bridge builders who will design, engineer, fabricate and install complete wood bridge systems. From these companies, you can get a 6-ft. ornamental garden footbridge or a 600-ft. vehicular bridge. The *SourceList* was compiled by selecting the most relevant replies from a survey made by the Editors of 74 wood bridge companies in our Supplier Database. ■

COVERED BRIDGE PRESERVATION GROUPS

In addition to the National Society listed in the SourceList, The Editors have located the following local covered bridge preservation organizations:

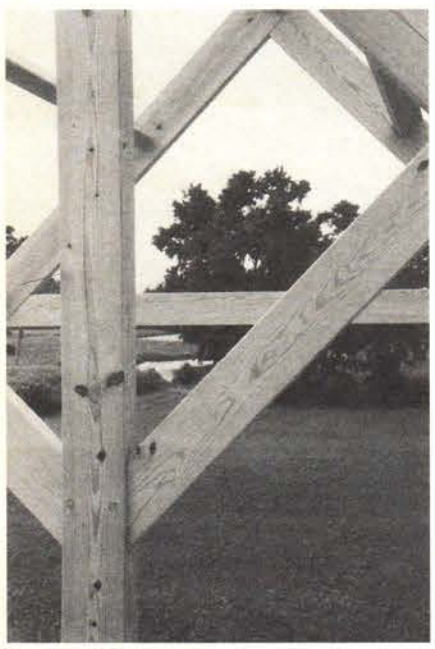
- **OHIO HISTORIC BRIDGE ASSN.** 3155 Whitehead Rd., Columbus,, OH 43204
- **KENTUCKY COVERED BRIDGE ASSN.,** 62 Miami Parkway, Ft. Thomas, KY 41075, (606) 441-7000
- **COVERED BRIDGE SOC. OF PENN.,** 3012 Old Pittsburgh Rd., New Castle, PA 16101, (412) 652-1137
- **FREDERICK COUNTY (MD) COVERED BRIDGE PRES. SOC.,** P.O. Box 143, Thurmont, MD 21788, (301) 271-1843.

WOOD BRIDGES PORTFOLIO

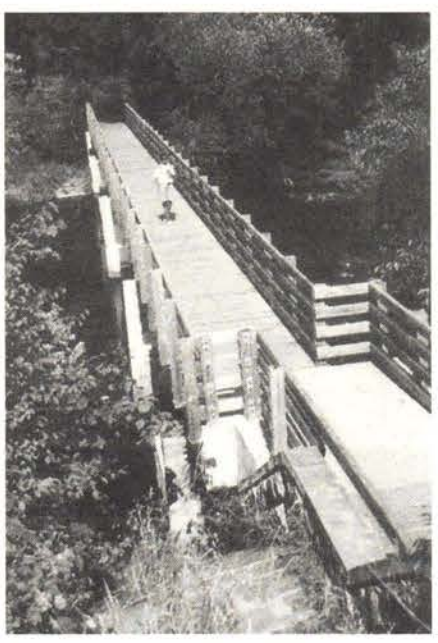
For more information on these companies, consult the SourceList on pp. 150-151.

YORK BRIDGE CONCEPTS is a specialist at installing wood bridges and walkways in golf courses and other developments, as well as in wetlands, uplands, drylands, and other ecologically sensitive areas. *Write in No. 662*

This rustic eastern red cedar bridge is typical of the solidly constructed custom bridges supplied by ROMANCING THE WOODS. Sizes of these all-natural structures begin at 6 ft. x 3 ft., but can be ordered in any length. Bridges up to 8 ft. long are delivered ready to install. *Write in No. 501*



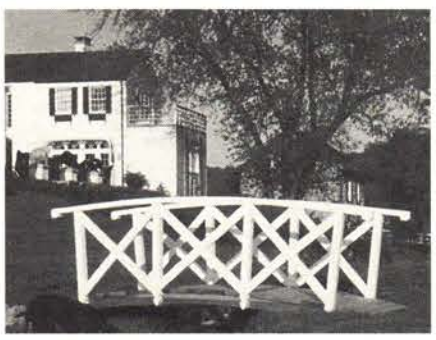
TIMBERFAB's specialty is the manufacture of shop prefabricated heavy-timber truss systems — technology that is readily adapted to construction of wood bridge trusses. *Write in No. 570*



WHEELER CONSOLIDATED engineers and builds a wide range of timber and wood bridges for the recreational and vehicular markets.

TIMBER HOLDINGS, LTD., specializes in the engineering and construction of wood bridges in naturally durable hardwoods for pedestrian and light vehicular traffic. They've fabricated wood truss bridges with clear spans over 100 ft. *Write in No. 842*

STRUCTURAL WOOD PRODUCTS designed and built this woodlands pedestrian bridge carried on a wood truss braced with steel tie rods.



This 12 ft. x 4 ft. footbridge is a standard design from WOOD INNOVATIONS OF SUFFOLK; the firm has many other styles available. *Write in No. 716*

The Lakeside Bridge, Fond du Lac, Wis., by WESTERN WOOD STRUCTURES, is carried on wood girders fabricated with "FiRP" Glulam technology. The Douglas fir laminations are reinforced with glass fibers embedded in resin.

BOW BENDS, one of the leading suppliers of ornamental prefabricated wood bridges, specializes in designs that are artistic and delicate, yet solidly engineered and constructed. This arched bridge in the oriental style has spun brass finials. Bridges can be engineered for private residential use or for access by the public. *Write in No. 345*

Ornamental Japanese bridges for garden installations are available in a number of standard designs from HERMITAGE GARDENS.

STRUCTURAL WOOD SYSTEMS applies glue-lam technology to a wide range of pedestrian and vehicular bridges — such as this arched-truss traffic bridge.

WOOD BRIDGES PORTFOLIO

For more information on these companies, consult the SourceList on pp. 148-150.

A restoration of the Wildcat Covered Bridge, built in 1925 over the Siuslaw River near Eugene, OR, was carried out by PERMAPOST. Repairs included new wood ramps, bridge decking, and guardrails.

This wood trestle bridge was designed and constructed by the staff of BRIDGE BUILDERS.

This picture-postcard covered bridge (the Roddy Road bridge in Thurmont, Md.) is just one of several original 19th-century covered bridges restored by FITZGERALD HEAVY TIMBER CONSTRUCTION. *Write in No. 230*

This gently curved long-span pedestrian wood truss bridge, made by ALAMCO, is carried on large beams fabricated with glue-lam technology.

CALENDAR OF EVENTS

RESTORATION/ Chicago. Trade show and conference being held in conjunction with the annual meeting of the National Trust for Historic Preservation, **Oct. 18-20, 1996** at the Navy Pier in Chicago. See the space ad on pg. 7 of this issue or call (508) 664-8066 or FAX (508) 664-5822 for more information.

4th ANNUAL CONFERENCE ON CLASSICAL ARCHITECTURE. The Institute for the Study of Classical Architecture and Traditional Building Magazine are co-sponsoring the 4th Annual weekend seminar and workshop series on classical architecture. The event will be held Saturday and Sunday, **Nov. 2-3 1996**, on the campus of New York University. For more details on the program and registration, see pg. 5 in this issue. Or FAX the Institute at (212) 627-5740.

PRESERVATION INSTITUTE REUNION. The Preservation Institute: Nantucket celebrates its 25th anniversary, on **Sept. 19-22 1996**, with a reunion of graduates, faculty, and friends. Against a backdrop of Nantucket autumn, participants will catch up with friends, hear presentations about recent projects by PI:N alumni, take behind-the-scenes museum visits, walking tours, and attend a reception. For further details, call Cynthia Ruffner at (508) 228-2429.

INTRODUCTORY WORKSHOP IN TIMBER FRAMING. A weeklong course in the basic concepts of timber frame construction will be offered **Nov. 3-9, 1996**, by Upper Loft Design, Lakemont, GA. The organization offers a series of workshops throughout the year on all aspects of timber frame planning, design, joinery, and construction. For more information, contact: Upper Loft Design, Rte. 1, Box 2901, Lakemont, GA 30552. (706) 782-5246 or FAX (706) 782-6840.

HISTORIC FENCES. A new exhibition at the National Building Museum, Washington, D.C., traces the history of fences as a defining element in the American Landscape and culture. From the settlement of America to the invention of chain link, and establishment of present day boundaries dividing the U.S. from Canada and Mexico, the exhibition explores the history, construction, and uses of fences in America. Museum hours are Monday through Saturday 10 a.m. to 4 p.m. and Sunday 12 noon to 4 p.m. The exhibit runs through **Jan. 5, 1997**.

THE GUSTAVINO CO. & THE TECHNOLOGY OF THE CATALAN VAULT. Running through **Jan. 5, 1997**, an exhibit at The Octagon Museum, 1799 New York Ave., NW, Washington, D.C., presents the work of Rafael Gustavino, whose expressive Catalan vaults and domes of laminated tiles grace more than 1,000 structures built by leading architects of the late 19th and early 20th centuries. The exhibit illuminates the Gustavino craft in drawings, photographs, company documents, and architectural fragments.

PAINTING THE TOWN VICTORIAN. Running through **Jan. 31, 1997**, an exhibit at The Athenaeum of Philadelphia explores historic precedents for the selection and placement of exterior house colors from 1860 through 1930. The exhibit is based on original period books, brochures, and documents in the collections of The Athenaeum, located at 219 S. Sixth St. in Center City Philadelphia. For more information, call (215) 925-2688.

WINDOW CONFERENCE & EXPOSITION. Three-day conference and trade show in Washington, D.C., **Feb. 19-21, 1997**, will provide an international forum to examine technical and preservation issues concerning the repair, restoration, and replacement of windows in historic buildings. Primary sponsor: Preservation Assistance Div. of the National Park Service. For additional details, write Program Director, Windows Conference for Historic Buildings, P.O. Box 77160, Washington, D.C. 20013. Tel. (202) 343-9578.

OLDE CHARLES TOWNE HOME SHOW '97. The '97 Home Show, running concurrently with the '97 Festival of Houses and Gardens, will be held in Charleston, SC, **March 20-23, 1997** at the Port Authority Passenger Terminal. The Show is designed to bring together property owners, architects, archivists, contractors, and conservators — everyone involved with the preservation, care, and maintenance of our cultural heritage. For information about attending or exhibiting, call (800) 677-4013.

PLASTERING TECHNIQUES. Master plasterer conducts intensive hands-on seminars in all traditional plastering techniques, from basic wall repair to mold-making and scagliola. Weekends, 1-week, 2-week, full month. Classes in Essex, NY, or at your site. Contact: Master of Plaster, P.O. Box 304, Essex, NY 12936, 1-800-352-5915.

FRESCO PAINTING WORKSHOPS. Based on traditional materials and techniques; taught by a professional fresco painter and past president of the National Society of Mural Painters. Workshops for small groups are taught in Greenpoint, Brooklyn, studio. Workshops meet once a week, 10 a.m. to 5 p.m. 4-day minimum session is $300 plus $50 materials fee. For registration form and schedule, send SASE to Andors Studios, 99 Commercial St., Brooklyn, NY 11222. Also, Fresco Workshops and Lectures at your location by special arrangement. Call (718) 389-7607.

continued from page 11

ter plan for a children's hospital in Haiti. A project close to his family's heart has been the Appleton-Whittell Research Ranch in Elgin, Arizona. The ranch is a wildlife sanctuary for interdisciplinary ecological field research overseen by the National Audubon Society. Appleton's parents and siblings founded the project years ago and continue to support its work.

Appleton & Associates currently has a staff of 14 and accepts eight to ten major residential commissions each year, both new and remodel projects. Although the firm emphasizes residential work, the project list occasionally diverges into the truly unusual: An olive pressing barn, a tortoise and bobcat enclosure (at the Research Ranch), commemorative plaques for the XXIII Olympiad, or a stairway for public beach access in Santa Barbara, Calif.

Return of the Estate

Just as McKim Mead and White, Delano and Aldrich, Charles Platt, or any one of the prestigious early 20th-century firms could deliver a complete estate package of house, gardens, grounds, pool, guest house, stable, etc., so can Appleton & Associates. One advantage to these all-encompassing projects is that landscape design and architecture evolve together from the beginning, as gardens provide the visual and spatial connection for the detached structures.

On a hill high above Beverly Hills, the Zanuck house revives the finest points of the Georgian architectural period — the quiet, confident, domestic elegance of an English precedent with a 250-year history. Appleton designed the project with Thomas R. Vreeland. When the client came to the architects requesting a Georgian country house modeled on Sir Edwin Lutyen's great country house, The Salutation (Sandwich, 1911), Appleton and Vreeland commended their clients' selection in architectural references, but suggested it would be out of place on a Southern California hilltop. The clients stood firm. The designers knew the residence would be an anomaly, but then much of California is.

A recent article in Town & Country highlighting a resurgence in the popularity of Georgian-style estates calls the style "measured, solid, and seductively comfortable." Costly goes without saying. Appleton explains the bottom line without subtlety: "You can't slam a house like this together. There is an enormous amount of unforgivingly interrelated detail to go through to design in the Classical styles." The project was five years in the making.

Working with landscape architect Lois Sherr Dubin, the designers organized the Zanuck estate on a formal plan commencing at the end of a long, winding drive. On axis is a circular motor court, the main house, and the terrace and formal gardens. The limestone-pedimented entrance of the house leads to a double-height stair hall followed by the formal living and dining areas, which open onto the terrace and gardens through a set of French doors. The view from the terrace overlooks the gardens and an allée of poplar trees with the city visible in the distance. The effect is dramatic even by Hollywood standards.

More Like a House

Scaling down does not preclude having a residence that integrates architecture with the best features of its site. The firm's more modest projects are no less well thought out in the merging of site and interior plans.

Appleton's ease and adeptness with simple and understated materials is evident in his design for a 3,000-sq.ft. ranch house located on 75 acres in southeastern Arizona. The house has three linked volumes. Two gable-roofed masonry structures — a main house and a combination garage and guest house — intersect a smooth, stucco-faced cube housing laundry and service functions. Its flat roof doubles as a deck for watching sunsets. The design is delightfully simple. "Grand statements are not typical in Arizona," Appleton reminds those who hint that the house is a little plain. "Our intention was to design a house perfectly at home in the Western landscape and expressive of its ranch-house heritage."

The house nestles in a clearing of tall grasses surrounded by dense clusters of native oak trees. Appleton found plenty of inspiration in the natural landscape. The warm gold of the adobe buff slump block used for the masonry makes a perfect match with the local soil, while the gray-green paint on the steel casement windows picks up the color of the oak leaves. The galvanized corrugated steel on the roof is without any additional finish so it will gradually fade to a soft gray like the best of local barns.

Climate was also a factor in design. Reflective roof material; thick, insulated masonry walls; and the porch and roof overhang for shading windows all maximize natural cooling. In the "L" of the house, Appleton placed a walled courtyard garden — a man-made landscape. On the opposite side of the house, the covered porch goes face-to-face with whatever nature throws its way; native grasses skirt poured concrete. The overall impression is not of a yard unkempt, but of a house at ease in its surroundings.

The Waingrow residence's courtyard paving, a mix of Bouquet Canyon stone and slate of the same color, is as much art as it is stonework. *(Photo: Alex Vertikoff)*

The Japanese influences in the Waingrow residence breakfast room are carried into the courtyard, where landscape designer Robert Fletcher created a garden of black bamboo, ferns, grasses, camellia, lilies, and a small pool with goldfish. *(Photo: Alex Vertikoff)*

A courtyard wall of Bouquet Canyon stone was assembled with deep set left ungrouted to appear as dry masonry. The wall and arbor-style trellis provide privacy, as well as an inviting entry to the Waingrow residence. *(Photo: Alex Vertikoff)*

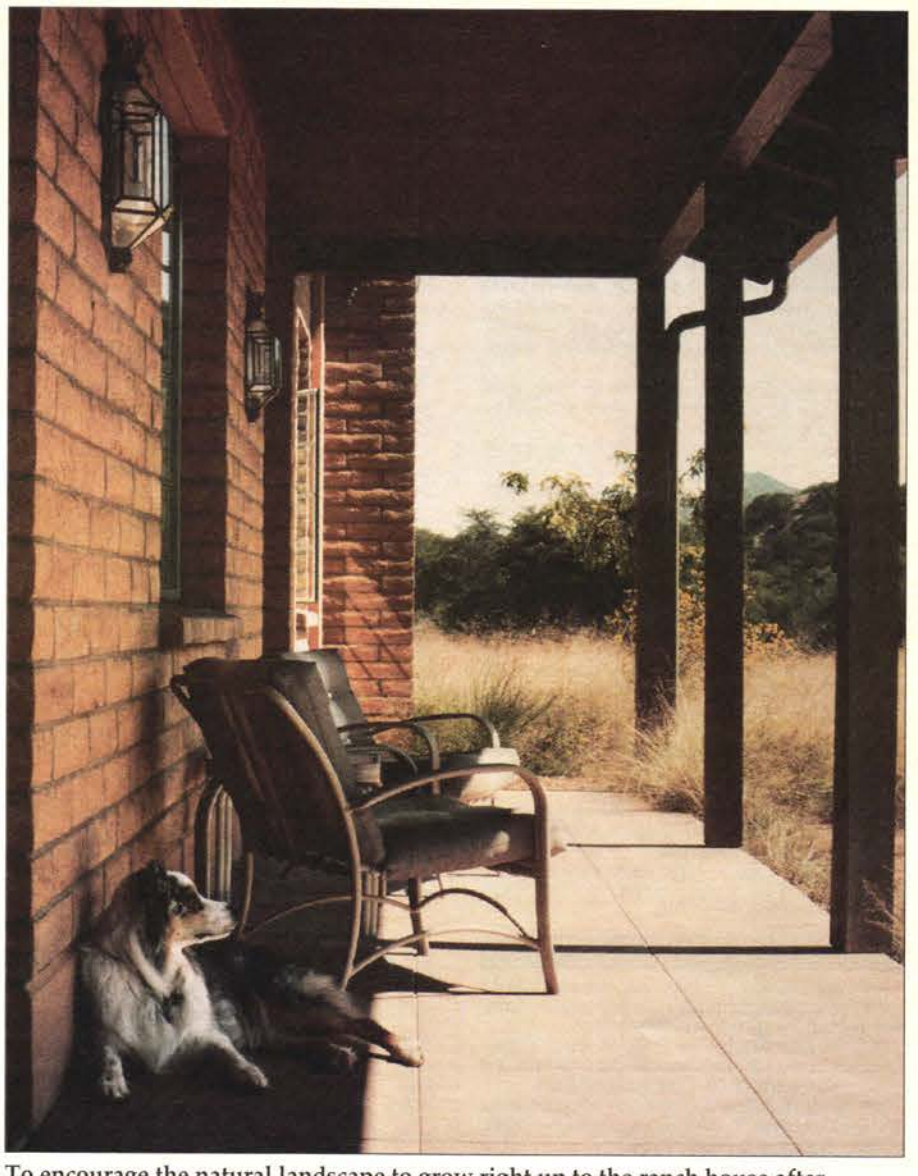
Remodels That Work

About half of Appleton & Associates' work is remodeling and adding to existing structures. Appleton's redesigns produce dramatic turnarounds, in part by making the landscape more integral to the house itself. Remodel and adaptive-use projects are important to Appleton because he firmly believes in conservation and reuse of the built environment, irrespective of what we find beautiful or justifiable by historic preservation standards.

Rather than go up or back to add square footage to the Waingrow residence in Brentwood, Calif., Appleton put the bulk of the new construction at the front of the house, wrapped around a landscaped entry court. The Waingrow project combined an extensive remodel of the 1950s ranch house, including haphazard additions from earlier years, and 1,150-sq.ft. of new construction. One of the most dramatic of the new spaces is a breakfast room that looks into the newly created garden court. For both architecture and landscape inspiration, Appleton used Japanese precedents: The black frames and muntin pattern of the breakfast room's expansive windows suggest shoji screens; the beautifully composed stone entry path and courtyard wall show a fastidious precision that is very Japanese.

In 1985, Appleton remodeled Dr. Betty Edward's house in Santa

Two walled courtyards are the only man-made landscape at this Arizona ranch house. One provides an entry point and the other, a protected, snake-free place for outdoor living and vegetable gardening. *(Photo: Alex Vertikoff)*



To encourage the natural landscape to grow right up to the ranch house after construction, native topsoil was carefully removed, stored, and then put back around the perimeter of the house. *(Photo: Alex Vertikoff)*

Monica, Calif. Both agreed there was not much about this particular 1950s tract house that was noteworthy. However, Edwards had nurtured a spectacular garden on the steep slope behind the house and was reluctant to move. Appleton's solution was to rework the house in response to the garden. The most dramatic transformation opened up the back of the house with a cascading studio window wall. The wall and ceiling step down in elevation and back in plan, creating more interesting visual relationships than a flat window against the terraced hillside garden.

From the new second floor studio space, Appleton extended a bridge (with a 24-ft. potting bench running its length) to connect the upper level of the house with the hillside garden. The smallest details were considered with the garden in mind: The bridge railing is thin steel gridwork that visually disappears; patio paving stones are cut in roughly rectangular shapes near the house to reflect its modern geometric lines and become more random and organic as they move toward the garden. You are aware of the garden from virtually any point inside the house. Even when looking back toward the house from the patio, the garden is reflected in the glass. The coup de grace is a viewing deck at the top of the garden, where, after a short climb, you can watch the Pacific over the roof of the house.

By raising the ceiling and rebuilding the rear wall almost exclusively in glass, Appleton refocused the Edwards' house on the garden. The only change to the existing foundation was a small, 3 x 5-ft. extension to accommodate the master bath tub. *(Photo: Steven A. Gunther)*

The Edwards' living room sported that excellent 1950s amenity — the aluminum sliding glass patio door (shown before Appleton reworked the entire rear elevation of the house.) *(Photo: Marc Appleton)*

A Good Rule

A well-developed language guides the design of houses and gardens in the Classical styles, which perhaps makes the connection between architecture and landscape more readable. The rules of the language were — and still are — clear, and the results predictably fine and pleasing when handled by someone who understands when to break the rules and when not to. Despite a multitude of options brought on by the Modern movement and current schools of thought, the basic principles remain sound, including the appropriateness of designing a structure and its setting as a consciously integrated whole. The work of Appleton & Associates is testimony to the enduring validity of this old, deceptively simple architectural rule of thumb. ■

PRODUCT LITERATURE

These suppliers will send free literature about historical products to TRADITIONAL BUILDING's professional readers. Write in the appropriate number on the enclosed postcard, or use the form below.

DIVISION 1 SERVICES

257. Restoration & Adaptive Reuse — Architectural firm specializes in historic buildings; historic structure reports, preservation plans, barrier-free access. **Ford Farewell Mills & Gatsch, Architects**

134. Classical NY, Classical America — Fourth annual weekend seminar combines practical instruction in classical designs. **Inst. for Study of Classical Architecture**

666. Architectural Photography — This photographic studio specializes in photography services for architects, interior designers, and building professionals. Free brochure. **David Lamb Photography**

112. Moisture Meters — Manufacturers of wood moisture meters for lumber. Also, dry kiln controllers. Lignomat USA, Ltd.

303. Preservation Books & Instruments — Books, instruments and products for preservation and restoration of architecture and objects. Consulting and training services. Free brochure. **PRG, Inc.**

818. Seamless Membrane For Roofs — Acry-Max coating systems for preservation and restoration of tin roofs. Can be used on other substrate materials. Free brochure. **Preservation Products**

338. Restoration Conference & Exhibit — After successes in Boston, San Francisco, and Baltimore, RESTORATION 96 moves to Chicago in October. Free info. **Restoration Show**

789. Architectural Photography — Photographer has extensive experience in indoor and outdoor photography of presentation quality. **Van Soest Photography**

930. Shipping Tubes — High quality shipping tubes for blueprints, mylar & vellum tracings, and storage. Over 30 sizes available. Free brochure. **Yazoo Mills**

DIVISION 2 SITEWORK

8. Patina Solutions — Ready-made patina materials for bronze, brass, and copper, in colors including green, burgundy, white, and rust. Free brochure. **A&C Distributors**

747. Pre-Cast Gazebos — As well as arbors, pergolas, balustrades, pavers, wall caps, columns, planters, stair treads, and fountains. Free brochure. **A&M Victorian Decorations**

319. Garden Fountains & Ornaments — Reproductions of Neoclassical pieces from turn-of-the-century designs. Free brochure. **Acanthus Garden/H.D. Goddin Antiques**

968. Classic Planters — Cast stone, and clay planters reproduced from turn-of-the century originals. Free brochure. **Acanthus Garden -- Planters**

61. Custom Oak Staircases — Complete millwork packages, staircases, stair parts. Free brochure. **Adams Stair Works and Carpentry Inc.**

79. Wood & Metal — Complete selection of cupolas from painted white pine, redwood, red cedar, or metal with pagoda, bell, or hip roofs. **Allen Cupolas**

12. Natural Granite Tile & Modular Panels — Limestone and granite flooring, pavers, wall pavers, and more. Free Brochure. **Ancor Granite Tile**

321. Architectural Antiques Auction — Whole rooms of furniture, lighting, sculpture, garden ornament, architectural antiques at auction in February. **Antique Building Material Co.**

90. Custom Fountain Builders — Design, construction, and restoration. Consultation for architects, engineers, designers; sells components & lighting. Free brochure. **Aquarius Waterworks, Inc.**

312. Granite Products — Pavers (split & flame finish), cobble stones, stair treads, sills, bollards, and columns. Custom designs. Free brochure. **New Worldwide Resources, Inc.**

147. Cast Architectural Elements — Specialist in design and production of columns, balustrades, pool coping, pavers, stairs treads, moldings, wallcaps, and mantels. Free brochure. **Architectural Facades Unlimited**

795. Forged Metalwork — Designers and fabricators of hot-forged gates, railings, fences, grilles, arbors, etc. Also exclusive distributor of B. Rourke & Co. forged components. **Architectural Iron Designs**

96. Cast Stone Ornament — Original artwork, reproductions, fountains, or work per spec. in any design, shape or color. Free brochure. **Architectural Ornaments**

2. Planters & Sculpture — Imported terra cotta and sandstone works of art and site amenities. Also custom pieces done on site. Free brochure. **Architectural Pottery**

170. Sculpture & Architectural Foundry — Foundry works in dimensions from small to monumental. Conservation, moldmaking, and installation. **Art Research & Technology, Ltd.**

214. Imprinted Concrete — Cast-in-place concrete in a variety of colors with templates that give the look of brick. **Artcrete, Inc.**

583. Bamboo Fencing & Gates — Also Japanese garden bamboo fixtures. From traditional designs to custom creations. Free brochure. **Bamboo & Rattan Works**

954. Teak Furnishings — Fine teak outdoor furnishings made in England. Oldest & largest manufacturer of teak furnishings. Free brochure. **Barlow Tyrie**

86. Poles — Wooden lighting poles. Free brochure. **J.H. Baxter & Co.**

216. Street Furnishings — Benches, street clocks, light poles and luminaires, trash receptacles, mall furnishings, gazebos, restaurant furnishings in aluminum or cast iron. Free brochure. **Blake Industries**

752. Wrought Metalwork — Metal design studio specializes in architectural and interior wrought metalwork in classical and contemporary designs. Free brochure. **Bondi Metal Design**

93. Bricks & Pavers — Specialty clay bricks for restorations, additions, and new construction. Stock lines and shapes; custom colors and production. **Boral Bricks, Inc.**

108. Timber Supply & Milling — Timbers for bridge-building, construction, landscape, and marine use; one of largest suppliers on the East Coast. Free brochure. **Boro Lumber & Timber**

488. Letter Boxes & Poles — Cast aluminum in period or custom designs. Free brochure. **Bose Associates**

345. Ornamental Bridge Kits — Lovely ornamental wooden bridges add an elegant accent to romantic landscapes. Gazebos and other outbuildings also available in kit form. Free brochure. **Bow-Bends/Bow House**

20. Brass Garden Ornaments — Statuary and fountains in the forms of figures, fish, frogs, swans, ducks, etc. Verdigris and bronze patinas. Free brochure. **Brass Baron**

889. Period Lighting — Solid brass Mission/Prairie and Victorian lighting in a variety of finishes. Original prismatic exterior lights in many sizes. Free literature. **Brass Light Gallery**

139. Ornamental & Architectural Metal — Supplier of aluminum & bronze extrusions, angles, tubes, etc. as well as stamped ornaments & steel wood-grain rods. Free brochure. **J.G. Braun & Co.**

713. New & Old Bells — Cast bronze bells are bought and sold by the country's largest dealer of pre-owned bells for churches, towers, etc. Free brochure. **Brosamer's Bells**

141. Center-Drilled Posts — Lantern posts, porch posts, finials, in all heart redwood. Free brochure. **Bruce Post Co.**

154. Concrete Products — Interlocking pavers, retaining walls, concrete balustrades, urns, fountains, statuary, and birdbaths. Free brochure. **Capitol Ornamental Concrete**

116. Classic Swings — Porch and garden swings in cedar, cypress, oak, teak, and redwood. Also, hammocks, rockers, and benches. Free brochure. **Centerville Swing Bench & Rocker Shoppe**

136. Copper Mailboxes — Timeless designs can be wall mounted or 2 types of poles available with torch-cut numbers. Free brochure. **Chaenomeles, Inc.**

427. Quarriers — Limestone, granite, and sandstone from six quarries, for landscaping, building veneer, wall stone, ashlars, and more. **Champlain Stone, Ltd.**

903. Garden Houses — Heritage garden houses, pavilions, pool houses, potting sheds, tool storage, hot tub enclosures. Also colonnades, garden seats and more. Free brochure. **City Visions**

180. Lightweight Garden Ornament — Fiberglass garden sculpture, planters, urns, birdbaths, and other ornament for exterior and interior use. Free brochure. **Classic Garden Ornaments**

182. Classic Reproductions — Planters, urns, and decorative garden pieces in classic European styles, fabricated in fiberglass. Also, line of imported ceramic planters. **Claycraft Fiberglass Planters**

83. Metalsmiths — Custom lighting, forged ironwork and forged, hand-hammered bronze; also, gates, tables, and other custom pieces. Free brochure. **Coe Studios, Inc.**

302. Markers & Signs — Cast bronze and aluminum plaques, historical markers, and nameplates. Free literature. **Colonial Brass Company**

547. Exterior Color Consultants — for Victorian homes and businesses. Also, lecture services. Free brochure. **The Color People**

62. Ceiling Fixtures — Solid brass ceiling fixture with hemispherical frosted glass globe looks like period Art Deco light. Also: polished chrome. Custom metalwork and repairs. Free brochure. **Conant Custom Brass**

308. Planters, Pavers & More — Standard and custom landscape and garden ornament, coping, pavers, columns, and other elements. **Concrete Shop, Inc.**

677. Copper Gates — Garden gates in copper with natural patinas, stock and custom designs. Free brochure. **Copper Gardens**

30. Copper Works — Gas or electric lanterns, mailboxes, lettering, street signs, and custom designs. Free brochure. **Copper Sculptures**

527. Heavy Timbers — Pine, hemlock, and oak timbers up to 26 feet. Pine pattern stock, grade-stamped timbers. Free brochure. **Cowls, Inc.**

155. Water Features — Waterfall fountains ranging from glass-like sheets to raging cascades. Free brochure. **Custom Cascades**

757. Natural Stone Quarrier — Quarrier and importer of natural stone; quarry tile, granite pavers, flagstone, and cobblestone. Free brochure. **Custom Stone Supply**

910. Architectural Stone — Skilled carvers and sculptors create statuary, ornament, mantels, entrances, and architectural moldings. Reproductions in marble, limestone, or bronze. Free brochure. **DMS Studios**

33. Gazebos & Birdhouses — Design/Manufacturers of garden structures: Several styles of gazebos, architectural birdhouses, as well as benches, tables, screens, deck railings. Free brochure. **Dalton Pavilions**

824. Crafted Automated Gates — Handcrafted in teak, mahogany, forged metals employing state-of-the-art operation technology. Free brochure. **Design Associates**

25. Historic Tiles — For fireplaces, kitchens, bath, or fountains: Coordinated borders and patterns in any size. Victorian, Neoclassic, De Morgan, Art Nouveau, Arts & Crafts, more. Period pavers. Colorful catalog. **Designs In Tile**

608. Synthetic & Natural Canvas — Outdoor canvas, including "Diklon 32" fabric, for awnings, marquees, tents, and other applications. **Dickson Elbertson Mills**

209. Landscape Products — Concrete litter receptacles, benches, planters, bollards, and table sets. Free brochure. **Doty & Sons Concrete Products**

184. Architectural Fiberglass — Planters, Ash/Trash Receptacles, benches, and directories in a variety of finishes. Free brochure. **Duraform**

722. Slate — Importer and distributor of roofing and flooring slate in about 50 different colors. Can ship on short notice. Free literature. **Echeguren Slate, Inc.**

429. Flagpoles, Weathervanes & Cupolas — More than 50 stock weathervanes, with custom designs available. Free brochure. **Eder Flagpole Company**

210. Public Clocks & Bells — Street and tower clocks, carillons, and bell towers. Free brochure. **Elderhorst Bells, Inc.**

720. Mold & Pattern Work — Cast stone, GFRC; elements include exterior molded ornament, columns and capitals, terra cotta replacement. Free brochure. **Essex Works, Ltd.**

234. Precast Concrete Products — Lintels, keystones, and many varieties of copings. Free brochure. **Federal Stone Industries**

384. Water Displays & Consulting — Cascades, fountains, waterfalls, and water-control devices and engineering and consulting services. **Festive Fountains**

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932. Classic Wood Entries — Redwood entry pediments, exclusive moldings, mantels, paneling, pilasters, and other architectural millwork. Free flyer. **Executive Woodsmiths**

821. Columns & Turnings — Moldings, curved crowns, porch posts, capitals, carvings, fluting & spiral rope twist; other large turnings. Turned & stavework columns. Free brochure. **Fagan Design & Fabrications**

289. Molded Ornament — Fine period & custom ornament: Cornices, medallions, sculpture, niches, capitals, brackets, domes. 2,300 antique molds available. Routinely handles large jobs. Free catalog. **Felber Ornamental Plastering**

196. Plaster Ornament — Hundreds of ornaments in fiber-reinforced plaster from turn-of-the-century molds. Also: Custom duplication of ornament from your sample. Free flyer. **Fischer & Jirouch Co.**

490. Flexible Molding — Also rigid moldings, spot decorations, simulated wood carvings for furniture, etc. All styles & custom reproductions in polymers & polyesters. Free brochure. **Flex Moulding, Inc.**

639. Molding Restoration — Studio specializes in conservation & restoration of architectural elements, sculpture, & fine art. Custom moldings. Free brochure. **Freedman Studios**

617. Molded Ornament — Architectural elements such as medallions, moldings, columns, and capitals molded from high-density, no-rot polymer. Free brochure. **Fypon Molded Millwork**

352. Decorative Plasterwork — including scagliola, projects for the hospitality industry; stock and custom work. Free brochure. **Hayles and Howe**

357. Custom Doors & Entryways — Circular moldings for interior or exterior applications a specialty. Also, historic restoration. Free brochure. **Hendricks Woodworking**

905. Hardwoods & Softwoods — Moldings, corbels, decorative plaques, finials, ceiling medallions, and more, in hardwood and softwood. Free brochure. **House of Moulding**

454. Replacement Elements — Columns, cornices, and all types of exterior molded ornament in a variety of molded materials. **Ionic Castings**

632. Rope Columns and Moldings — and custom wood turnings. Free brochure. **JMS Wood Products**

362. Columns & Turnings — High-quality architectural columns, porch posts, spindles, and stair parts manufactured in western hemlock; finish sanded. Free brochure. **Jeld-Wen, Turning Point Div.**

31. Custom Woodturnings — Manufactures stair balusters, newels, columns & ornamental capitals, corner blocks, rope/twisting, reeding, stock rails, fittings and more. Free literature. **Josef's Art Wood Turning**

738. Hand-carved Wood Ornament — Custom-designed hand-carved wood. Carvings of any size, in any style, for furniture or architectural ornament. Free brochure. **Dimitrios Klitsas**

539. Architectural Mantels — French tradition, from Gothic to contemporary. Products include fountains, columns, moldings, benches, etc. Free brochure. **Limestone Concept**

267. Victorian Gingerbread — Millwork, turnings, porch parts, and more. Most in redwood. Free brochure. **Mad River Woodworks**

Architectural Trim — Handcrafted custom-made interior & exterior 18th century architectural trim. Colonial doors & windows, shutters, wall panelling, pediments, etc. Call (203) 633-2383. **Maurer & Shepherd, Joyners**

410. Classically-Correct Columns — Made of redwood, hardwood, marble composite, and poly-resin. Free brochure. **Melton Classics**

921. Custom Windows & Doors — Architectural millwork shop specializes in custom windows and doors for restoration and new construction. **Michael Reilly Design**

5. Architectural Woodturnings — All types of custom spirals and turnings, hollow spirals, flutes, reeds, balusters, posts, circular moldings, custom hand rails and stairwork. Free brochure. **Mohamad Woodturning Corp.**

912. Architectural Columns — Columns are made of clear heart redwood for maximum durability. Patented Koll interlocking stave joint gives added strength. Available in diameters up to 48". Free brochure. **NT Hartmann Sanders**

883. Specialty Lumber — Porch parts, such as railings, balusters, and newel posts. Stocks over 100 turnings and 15 rail profiles. Free brochure. **Newmeyer Lumber Co.**

707. Wood Columns — Millwork based on designs from 1870 to 1920, in clear heart redwood, oak, mahogany. Balusters, newel posts, porch columns, railings, and custom turning. Catalog free. **Pagliacco Turning & Milling**

852. Custom Casework — Complete turnkey interior woodwork services for commercial & high-end residential jobs. Custom moldings in a variety of materials. Free literature. **Powell Cabinet & Fixture Co.**

627. Hand-Turned Wood Components — For porches and furniture. Made from Western red cedar, redwood or various hardwoods. Also, cornerblocks, rosettes and buttons. Free brochure. **Gail Redman Woodturnings**

298. Plaster Conservation — Restoration using traditional techniques and modern consolidants. Also custom enrichment for new construction. Free brochure. **Rory Brennan**

161. Classical Wood Columns — Wood columns from 4- to 50-in. dia. and up to 35-ft. long. Matching pilasters and 14 styles of capitals. Maintenance-free aluminum bases available. Custom work. Free catalog. **Schwerd Mfg.**

171. Complete Millwork Line — Victorian, Country, Southwestern and other styles of interior and exterior millwork from a large inventory. **Silverton Victorian Millworks**

847. Plaster Ornament — Importer & distributor of Sorale ornaments and fireplace surrounds. Free brochure. **Soltis Plastering & Stucco**

66. Wood Columns — Builds standard and custom columns up to 40-in. dia. and 40-ft. long. Tongue-and-groove stave joints; clear northern pine, clear heart redwood, and other woods. Free brochure. **Somerset Door & Column**

433. Stair Systems and Components — Custom or stock stairs, with CAD services and a complete line of stair components. Free brochure. **Southern Staircase Company**

565. Architectural Wood Columns — Wood columns and capitals; species include pine, redwood, oak, maple, and cherry. Free brochure. **Spartan Architectural Columns**

11. Molded Architectural Ornament — Columns, cornices, balustrades, and other molded elements in FRP. Free brochure. **Spaulding Craft, Inc.**

474. Long-Length Plank Flooring — Antique flooring in oak, chestnut, pine, and heart pine. Free brochure. **Specialty Wood Co.**

880. Cast Stone — Columns, sills, copings, ornament, and more, in cast stone. Also, mantels, panels, and custom stonework. Free brochure. **Stonco, Inc.**

875. Cast & Molded Ornament — Cast stone, FRP and other materials used to make balustrades, cornices, archways, and more. Free brochure. **Stromberg's Architectural Products**

331. Epoxy Repair — Systems for wood, metal, concrete, asphalt, and other materials. **Toch Brothers**

522. Architectural Ornament — Custom design and fabrication of architectural and sculptural shapes including columns, capitals, and balustrades. Free brochure. **Treadway Industries, Inc.**

561. Architecturally-Correct Columns — Wood columns in a variety of species; finger-jointed and solid stave; stock available; posts, turnings, decorative millwork. **Turncraft**

585. Ceiling Tiles, Coffers, Etc. — Manufacturer of glass-reinforced polymerized gypsum items, including moldings, ceiling coffers, and ceiling tile. Free brochure. **Universal Gypsum Technology, Inc.**

165. Classical Woodcarver — Specializes in architectural carving: Mantels, capitals, signage, etc. Original or reproductions from samples. Free brochure. **Frederick Wilbur--Carver**

712. Victorian Millwork — Screen doors, porch parts, custom woodwork, moldings, ornamental trim, and gingerbread of all types fabricated from original period patterns. Free catalog. **Wood Factory**

524. Wood Carvings— Architectural elements including stair parts, capitals, posts, corbels. Free brochure. **Woodline Company**

129. Monumental Stairs — Specializes in custom wood stairs. Metal stairs in various metals, and interior and exterior spiral stairs available. AutoCad design system. Free brochure. **Woodsmiths Design & Manufacturing**

163. Columns & Architectural Elements — Standard and custom wood columns, balustrades, polymer and plaster ornament, carved wood entries, garden furnishings, molded ornament, and more. Free brochure. **Worthington Group**

782. Art Glass & Antiques — Architectural antiques, including mantels, garden ornament, and stained glass windows, doors, and panels. **Ziggurat Architectural Ornaments**

DIVISION 7 ROOFING

783. Metal Roofing Products — Standing-seam panels, simulated S-tile and Spanish barrel tile, shake shingles, and period steel shingles for new and restoration roofing. Free brochure. **Berridge Mfg. Co.**

128. Gutter Products — Seamless half-round gutters in copper and heavy aluminum; compatible with hidden nut & bolt hanging system. Free brochure. **Commercial Gutter Systems**

183. Metal Roofing — Shingles, gutters, leaders, and galvanized roofing sheets. Free brochure. **Conklin Metal Industries**

607. Roofing & Specialties — Roofing slate, flagstone, slate flooring, specialty slate, snow guards, and other roofing specialties. **Construction Resources**

200. Leader Boxes and Rain Gutters — Copper rain gutters, custom gutter profiles. Also, leader heads, bronze brackets, patinas. Free brochure. **Copperworks of Don Miller**

607. Fiber-Cement Shingles — Slates, shakes, and shingles in styles including traditional Victorian hexagonal, twin-lap, and Dutch lap. Free brochure. **GAF Materials Corp.**

580. Lightning Protection — Air terminal manufacturers, lightning protection systems, design & installation. Free brochure. **Heary Bros. Lightning Protection**

575. Wooden Fan Louvers — Manufacturer of historically accurate wooden fan louvers for gable ends in attics, barns, and similar spaces. Free brochure. **Historical Louver**

653. Cedar Shingles — Roofing, siding, decks, trim from Western Red Cedar, Douglas Fir, Redwood, Cypress, Mahogany. Roofing for historic projects a specialty. Custom orders welcome. Free brochure. **Liberty Cedar**

270. Moisture Vents — Small, screened metal louvers, 1" to 6" dia., release moisture trapped in walls, cornices, soffits, etc. Just drill holes and press in place. Free literature. **Midget Louver**

391. Roof Fasteners — Metal roofing specialties: Birdproofing, snow guards, sheet metal, hurricane clips, fasteners for clay & concrete tile. Brochure in English & Spanish. **Newport Fastener**

404. Clay Roofing Products — One-stop shopping for all clay roofing tiles and related architectural clay products. All profiles, colors, finishes. Handmade cresting and chimney pots. Free brochure. **Northern Roof Tile Sales**

389. Slate Roofing Specialties — TopSlate aluminum ridges, hips, and vents are custom-engineered for slate roofs and factory-finished with Kynar coating. **Petersen Aluminum**

629. Rain Gutters — Facia or roof mounted hanging systems; half-round gutters. Free brochure. **Plastmo, Inc.**

437. Quartersawn Clapboard — Authentic radially sawn, square-edge Colonial clapboards. Custom sawing in any size, width, and species for restoration or high-end construction. Free flyer. **Sky Lodge Farm**

387. Metal Roof Thatch — Easy-to-install metal shingles create the look of tropical thatch for structures in any climate. Free brochure. **Tropic Top**

348. Steeplework — All exterior church restorations: Steeple rebuilds, roof replacements, metalwork, millwork, & painting. Free brochure. **Yankee Steeplejack Co.**

DIVISION 8 DOORS & WINDOWS

835. Steel Windows & Doors — Meet all Landmark requirements. All types of installations; can match profiles. Free brochure. **A&S Window Associates**

169. Early American Hardware — Broad assortment of brass and iron hardware for exterior and interior doors, mailboxes, cabinet and shutter hardware, ornamental brackets, bath and fireplace accessories. Free brochure. **Acorn Mfg.**

69. Invisible Storm Windows — Match any window shape or color; removable storm windows available inside or outside mounted; screen and glass panels. Fixed, magnetic, sliding, or lift-out styles. Free brochure. **Allied Windows**

55. Bead & Batten Doors — Custom built doors in recycled fir and redwood, or species as specified. **Alternative Timber Structures**

167. Builders Hardware — Door, window, cabinet, and millwork hardware. Cast window pulleys in bronze, brass, or aluminum. **Architectural Resource Center**

293. Authentic Restoration Hardware — Largest selection of authentic 18th- and 19th-century hardware: Hinges, latches, pulls, shutter hardware, much more. Also: Custom work and repairs. Free mini-catalog. **Ball & Ball**

73. Window & Door Hardware — Manufacturer & distributor of current & obsolete hardware for doors, windows, closets, patio doors, and much more. Free catalog. **Blaine Window Hardware**

162. Decorative Door Hardware — Unique designs for European-style iron knockers, latches, etc. Free brochure. **Bouvet, Inc.**

965. Wood Entries — Furniture builders create "furnishings for your entry" — entry door systems built like fine furniture. Free brochure. **Chautauqua Doors**

190. Architectural Millwork — supplying materials from wood flooring to custom wood moldings — and also windows, doors, cornices. **Construction Resources**

698. Arts & Crafts Style Hardware — Hand-hammered hardware; copper, bronze, and brass sash lifts; door knobs, handles, and more. Free brochure. **Craftsman Hardware Co.**

114. Replacement Sash — Any size or layout: circle, oval, round-top, Gothic. Sash or complete window unit. Custom moldings, doors, millwork to specs. Free flyer. **Drums Sash & Door**

936. Wood Windows & Doors — Many traditional styles suited for building renovation or period styles. **Eagle Window and Door, Inc.**

431. Antique Hardware — Supplies original curtain tiebacks, door knockers & door hardware, furniture hardware & twist bells. Free brochure. **Eugenia's Antique Hardware**

185. Storm Windows — Extruded aluminum storm windows add energy-efficiency to historic windows. Free brochure. **Gallatin Aluminum Products Co.**

664. Traditional Garage Doors — Specialists in custom wood garage doors. Free brochure. **Hahn's Woodworking, Inc.**

135. Wood Doors — Interior and Exterior doors in Honduran mahogany and red oak. **Heritage Door**

376. Large Distributor — Tubs, toilets, bidets, faucets, and other reproduction period plumbing accessories. Free brochure. **Kolson, Inc.**

941. Wood Doors — Custom shop specializes in energy-efficient doors of native woods. Traditional panel doors, sidelights, & transoms. Interior & exterior. Free brochure. **Lamson-Taylor Custom Doors**

584. Custom Hardware — Custom historic hardware for domestic and commercial applications. Has wide range of antique patterns that can be adapted, or will work to your sample. Free brochure. **Brian F. Leo Custom Hardware**

760. Door & Window Hardware — Exclusive importer of a wide range of traditional house hardware; over 21,000 items available. Free brochure. **Maguire Iron**

146. Wood Windows — Wood sash in any size and shape: Divided lite, round top, curved, double-hung, fixed, casement, or storm sash. Also: Shutters, screen doors, and trim. Free brochure. **Midwest Architectural Wood Products**

115. High-End Period Hardware — Manufacturers and suppliers of door hardware from 19th-c. European to Moderne and Deco styles. Free brochure. **Nanz Custom Hardware**

212. Steel Windows — Specialists in fire-rated products. Free brochure. **Optimum Window**

124. Shutter Hardware — Specialist in shutter hinges, shutter dogs (holdbacks), shutter bolts, and shutter ring pulls. Free literature. **Peters & Son**

424. Interior Storms — Specialties include "Flextite Winsulator" insulating windows. Free brochure. **Petit Industries, Inc.**

595. Sash Pulleys — Solid brass and steel, plain and ball-bearing sash pulleys; sash chain; and traditional brass window hardware. Free literature. **Phelps Company**

679. Window Repair & Replacement — Wood and metal windows refurbished or replicated. Services also include historic window surveys, weatherstripping, and specialty glazing. Free brochure. **Replacement Systems International**

359. Steel Casement Window Repair — For residential, commercial, and historic buildings. Free brochure. **Seekircher Steel Window Repair**

123. Cedar Shutters — Shutters are crafted from clear old growth western red cedar. Joints are mortise-and-tenon with teak locking pins. 5 traditional styles in standard and custom sizes. Free brochure. **Vixen Hill Shutters**

964. Wood Doors & Windows — Full range of millwork services from authentic restoration to custom design & production. Skilled at recreating historic windows and doors. Free flyer. **Wood Window Workshop**

843. Specialty Wood Windows — Palladians, straight, and fan transoms. Single-, double-, or triple-glazed, thin muntins. Also: Solid wood doors with insulating core. Free brochure. **Woodstone Co.**

692. Landmark Window Work — Duplication capabilities for any window or door requiring landmark approval. Monumental sizes, and special shapes and glazing options. Free brochure. **Zeluck Doors and Windows**

DIVISION 9 FINISHES

892. Tin Ceilings — 26 Victorian and Art Deco tin ceiling patterns. 2x8, 2x4, and 2x2 ft. panels for nail-up or lay-in. 13 cornices; pre-cut miters. 2x2 ft. center medallions. Free literature. **A.A. Abbingdon**

132. Antique Building Products — Flooring, stair parts, paneling, moldings, etc. Species: Chestnut, oak, heart pine, poplar & more. Free brochure. **Aged Woods, Inc.**

7. Solid Wood Registers — in 10 standard sizes, a variety of species, with adjustable damper systems. Free brochure. **All American Wood Register Co.**

49. Decorative Painting Academy — Finishes are taught in mostly water-based materials. The school sponsors trips to Europe where students participate in restorations. Free brochure. **American Academy of Decorative Finishes**

626. Residential & Commercial Art Glass — Custom art glass, traditional and contemporary. **Ann Wolff Glass Design**

95. Architectural Antiques — American Victorian, French Country, Art Deco, and other periods represented. Showrooms in Beverly Hills and New York City. **Antiquarian Traders**

251. Custom Art Glass — Hand-beveled, stained, and etched glass windows, screens and tables for residential and commercial installations. Free literature. **Art Glass of the South**

109. Wood Flooring — Heart pine and wide plank. Free brochure. **Authentic Pine Floors, Inc.**

48. Beveled & Leaded Glass — For doors, windows, and room dividers, stock or custom. Also makes doors in various species. Free brochure. **Beveled Glass Works**

281. Interior Ornament — Adheres to any surface when steamed, including wood, plastic, and metal. Free brochure. **Bomar Designs**

769. Stained & Beveled Glass Doors — Large selection of designs, colors and textures. 25 styles and sizes with round top or rectangular frames; insulated glass options. Free literature. **Bovard Studio Stained Glass**

Victorian Roomset Wallpaper — Vast array of borders, fills, and patterns. Catalog shows 10 roomsets including: Neo-Grec, Arts & Crafts, Morris, Aesthetic Movement. Catalog $10; call (707) 746-1900. **Bradbury & Bradbury**

622. Victorian Lighting — High-quality brass reproductions of chandeliers and sconces from the Victorian era. Free brochure. **Brass Reproductions**

693. Victorian Carpet & Lace — Real Victorian Carpet is woven on 19th-century machinery, using original designs. Hundreds of authentic patterns available. English lace for window treatments. Free brochure. **J.R. Burrows & Co.**

510. Decorative Painting — Headed by a European-trained master painter, this studio does major projects all across the country. Restoration a specialty, but also executes new commissions. Free brochure. **John Canning & Co., Ltd.**

558. Custom Wood Flooring — Paneling and flooring in species including white pine, red oak, heart pine, southern yellow pine, and cherry. Free brochure. **Carlisle Restoration Lumber**

19. Tin Ceilings — 18 patterns of tin ceilings for Victorian homes and commercial interiors. Designs from Victorian to Art Deco. Several exclusive patterns; cornices in 4-ft. lengths. Free brochure. **Chelsea Decorative Metal Co.**

878. Antique Wood Flooring — Original antique and re-milled flooring from antique recycled lumber, in chestnut, oak, white pine, yellow pine and sugar pine. **Chestnut Specialists**

432. Extra-Wide Boards — Pine boards for flooring or paneling in widths from 12 in. to 24 in. kiln dried. Wide oak flooring from 4 in. to 9 in. Custom moldings & millwork; dual wainscotting. Free brochure. **Craftsman Lumber**

717. Intricate Stone Cutting — Waterjet cutting service for inlaid granite, marble and hard-to-cut materials for medallions and floor patterns. Free brochure. **Creative Edge Corp.**

970. Sand-Carved/ Etched Glass — Design and fabrication of etched glass for commercial and residential interiors; room dividers, back bars, windows, and more. Free brochure. **Custom Glass Etchers**

232. Terrazzo — And seamless composition flooring installations throughout New England. Free brochure. **DePaoli Mosaic Co.**

314. Delft Tiles — Traditional blue or polychromed scenics, botanicals, animals, and tradespeople. Free flyer. **Dutch Product & Supply Co.**

198. Gold Leaf Products — Genuine and imitation gold leaf materials for interior and exterior uses. Free brochure. **Easy Leaf Products**

246. Historic Painting — Major studio with extensive restoration and original design experience. Services range from research and analysis to trompe l'oeil, graining, and gilding. Free literature. **EverGreene Painting Studios**

508. Art Glass — All art glass techniques, including beveling, glass painting, sandblasting, faceting, leading. Custom design and restoration services. Free brochure. **Gaytee Stained Glass**

898. Gilded Domes — Exterior and interior gilding and copper patination projects nationally and overseas. Also, steeplejack services. Free brochure. **Gilders' Studio, Inc.**

360. Glass Aggregate for Terrazzo — Manufacturer of specialty glass products, including dalle de verre and aggregate in a variety of colors. Free brochure. **Heritage Glass**

914. Parquet Floors — Classic hardwood parquet borders and full-room patterns are exact reproductions of floors found in homes built from 1880 to 1920. Free brochure. **Historic Floors of Oshkosh**

330. Art Glass Studio — New and restoration projects using all techniques. Free brochure. **Hunt Stained Glass Studios**

635. Victorian Electric Fires — Electrified simulated Victorian coal grates in solid brass are imported from England. Free brochure. **Imperial Fires**

468. Moldmaking Materials — Wide range of moldmaking and casting materials create accurate replicas of historic architectural details. Free brochure. **Industrial Polymers**

976. Heart Pine, Cherry, Maple — Flooring, trims, cabinetry, and moldings from remilled lumber in maple, cherry, heart pine, or as specified. Free brochure. **The Joinery**

491. Historic Pigments — Recreate the exact look of historic finishes through the use of authentic earth pigments and colors. **Kremer Pigments**

408. Fine Leather For Furnishings — Tabletop, desk, and furnishing leather. Free brochure. **Lavinia Interiors**

81. Interior & Exterior Gold Leaf — Gold leaf for interior and exterior gilding. Also, silver leaf, gold size, tools, and imitation gold leaf. Free brochure. **Leo Uhlfelder Co.**

969. Antique Hardware — From 1850-1950, for windows, doors, furniture, lighting, and more. Free brochure. **Liz's Antique Hardware**

623. Gold Leaf & Sculpture Conservation — Gold leaf on domes, cupolas, monuments. Restoration and conservation of monuments and monumental sculpture. **Marshall Gold Leaf Studios**

948. Leaded Glass — Custom art glass for residential, commercial, and liturgical projects. **Leone McNeil Art Glass**

589. Ceramic Relief Tile — Arts & Crafts, Art Nouveau, Celtic, and medieval motifs in ceramic tile, for fireplaces, kitchens, and more. Large selection of matte glazes. Free literature. **Motawi Tileworks**

422. Wood Flooring — Vertical-grain fir, Western maple, madrone, and pine; also, parquet. Free brochure. **Oregon Lumber Co.**

315. Copper Coatings & Patinas — Four finish colors, including verdigris green, can be applied to copper or any metal, and to any interior or exterior material. Free brochure. **Patina Finishes & Copper Coats**

734. Rubber Mold Materials — Manufacturer and distributor of products for rubber mold design. Free brochure. **Perma-Flex Mold Co.**

636. Moldmaking & Casting Materials — Rubbers for flexible molds — brush-on or pourable. Fast durable molds for plaster, cements, and resins. Variety of casting resins. **Polytek Development Corp.**

441. Historic Paints — Oils and acrylics formulated for restoration projects. Free brochure. **Primrose Distributing/Olde Heritage Colors**

793. Stained Glass Studio — Major studio designs and fabricates art glass panels for residential and commercial buildings. Skilled in restoration and conservation of stained glass domes. Free brochure. **Reflection Studios**

763. Victorian & Craftsman Lighting — Reproduction chandeliers & sconces appropriate for residential, commercial, or government interiors. Historically accurate; solid brass or cast iron. Free brochure. **Rejuvenation Lamp & Fixture**

624. Stained Glass — Designs, fabricates, and restores stained and leaded, faceted, beveled, and etched glass panels. Free brochure. **Rohlf's Stained Glass Studio**

288. Gold Leaf Supplies — Gold leaf in booklets or rolls, oil sizes, Kolner burnishing clays for water gilding, imitation gold & aluminum leaves & rolls. Free brochure. **Sepp Leaf Products**

65. Architectural Molding Materials — Molding compounds can be used on-site, and are readily pourable or brushable for painting onto vertical surfaces. Free brochure. **Smooth-On**

153. Plaster Wall Repair — System combines a saturant with a fiberglass fabric, which can then be painted. Free brochure. **Specification Chemicals**

619. Period Lighting — Authentic handcrafted brass reproduction ceiling fixtures, sconces, and lamps. Gas, electric, and combination fixtures from 1880 to 1930. Custom work. Free catalog. **St. Louis Antique Lighting Co.**

110. Historic Paint Colors — Source for Old Village linseed oil paints, Williamsburg Buttermilk paints, and feathers, combs, and graining tools. Free brochure. **Stulb's Old Village Paints**

562. Patinas & Chemicals — Chemicals for the coloring of metals. Large selection of colors available. Free literature. **Sur-Fin Chemicals**

249. Gilding Materials — 100-year-old company specializes in gold and silver leaf; used in historic restoration and decoration. Available in surface, glass, patent, and roll gold forms. Free brochure. **Swift & Sons**

725. Mold-Making Products — Polymers for mold-making in pourable, sprayable, paintable, and trowelable consistencies. Also, lightweight urethane casting resin. Free brochure. **Synair Corp.**

525. Victorian Wallpaper — Owner and reproducer of the Brillon collection, which contains over 4,500 rolls of 1,377 patterns of American documentary wallpaper, c.1850. Free brochure. **Victorian Collectibles, Ltd.**

52. Sheetmetal Ceilings & Ornament — Richly ornamented metal ceilings, from original turn-of-the-century dies. Also: Exterior cornices and hundreds of sheetmetal ornaments. Free catalog. **W.F. Norman**

291. Wine Racks & Cellars — For custom homes, hotels, and restaurants. Free brochure. **Wine Racks Unlimited**

DIVISION 10 SPECIALTIES

323. Bird and Pest Repellants — Non-toxic chemical roost inhibitors, visual and sound pest inhibitors, barriers, and more. **Bird-X Inc.**

176. Cast Iron Firebacks — Hand-cast from original designs dating to Colonial period. Pieces are not only decorative, but also prevent deterioration of firebox. Prices range from $75 to $400. Free brochure. **Country Iron Foundry**

792. Wood Grilles — Will accommodate a standard metal register and fit over the metal, for standard duct openings. Free brochure. **Grill Works**

37. Pigeon Control — Get rid of bird pests with inconspicuous stainless steel needles that eliminate roosts — without harming building. Humane and practical. Free flyer. **Nixalite**

758. Fireplace/Stoves — Freestanding, energy-efficient, wood-burning stoves in 7 colors, with see-through door option. Free brochure. **Rais and Wittus, Inc.**

634. Concrete Roofing Tiles — Reinforced concrete roofing tiles can replicate wood shakes and many other traditional shapes. Integral colors. Economical, long-lasting. Free brochure. **Richmond Precast Concrete Products**

461. Chimney Products — Supplier of refractory materials, cleaning products, gasket cements, chimney paint & water repellant. Free brochure. **Rutland Products**

14. Landscape Furnishings — High-quality teak and cast iron benches, chairs, planters, treillage, and other furniture. Trade sales; free brochure. **Smith & Hawken**

906. Cast-Stone Mantels — That look and feel like cut limestone. Free brochure. **Stone Magic Mfg.**

DIVISION 14 CONVEYING SYSTEMS

325. Hydraulic Elevator Systems — Custom design, manufacture, and installation for residential applications. Free brochure. **Cemco Lift, Inc.**

199. Elevators & Lifts — Dumbwaiters, elevators, stair ride lifts, wheelchair lifts; oak cabs; meet ADA codes. Free brochure. **Econol Elevator Lift Corp.**

443. Manual Dumbwaiter Kit — For assembly on site. Capacities range from 75-500 lbs. Also, handicap elevators & and wheelchair lifts. Free brochure. **Gillespie Corp.**

929. Manual Dumbwaiters — "Silent Servant" manual dumbwaiters for residential and commercial use. Free literature. **Miller Manufacturing Inc.**

728. Vertical Lifting Products — Residential elevators, accessibility lifts, dumbwaiters, with specialty gates and interlocks. Free brochure. **Waupaca Elevator Co.**

DIVISION 15 MECHANICAL

242. Faucets & Fixtures — Complete lines of modern, Victorian, & European plumbing. New things for claw-foot tubs, shower conversions in chrome or brass, high-tank toilets, pedestal sinks, and much more. Free catalog. **A-Ball Plumbing**

586. Bathroom Fixtures & Hardware — Turn-of-the-century bathroom fixtures & accessories; reproduction & antique. Classic brass hardware and hard-to-find parts. Free brochure. **Bathroom Machineries**

243. Period Plumbing Fixtures — Reproduction pedestal basins, kitchen and bath faucets, and more. Free brochure. **Baths From The Past**

168. New & Antique Hardware — Plumbing, kitchen, cabinet and other kinds of hardware and accessories, including towel bars, clawfoot tubs, door knobs and hinges. Free brochure. **Decorum, Inc.**

294. Victorian Showerhead — Features 169 holes on an 8 in. dia. face. Shower-arm bracket available or installs with 1/2 in. standard fittings. Free brochure. **Sunflower Shower Co.**

DIVISION 16 ELECTRICAL

6. Reproduction Lighting — Handcrafted 18th and 19th century lighting fixtures: chandeliers, sconces, and table lamps — all of solid brass. Free catalog. **Authentic Designs**

766. Historic Lighting — Vast selection of highest quality lighting reproductions, from 18th through early 20th century: Residential, commercial, institutional. Standard designs and custom. Free catalog. **Ball & Ball**

204. Electric Candles & Flame-like Bulbs — Electric wax candles, candle covers, and bulbs for antique, traditional, and other types of lighting fixtures. **Elcanco, Ltd.**

121. Custom Casting & Lighting — Custom cast architectural ornament in iron, aluminum, and bronze. Works from your specs, or will create designs for your approval. Free brochure. **Historical Arts & Casting**

528. Victorian Chandeliers — Solid brass chandeliers and sconces with Venetian crystal; traditional crystal chandeliers. Free brochure. **King's Chandelier Co.**

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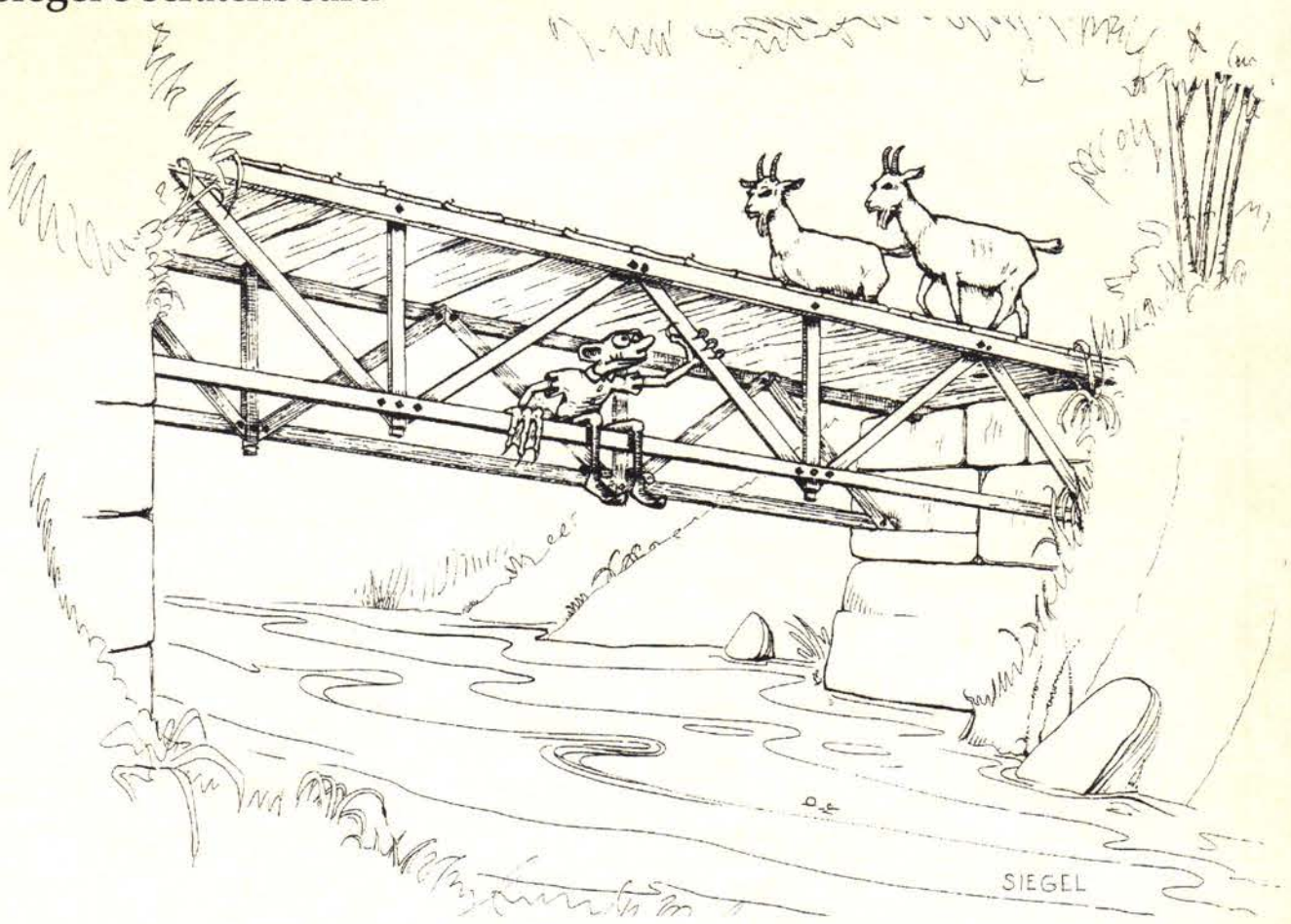
siegel's scratchboard



"I heard a sheep say this was just turned into a troll-bridge."

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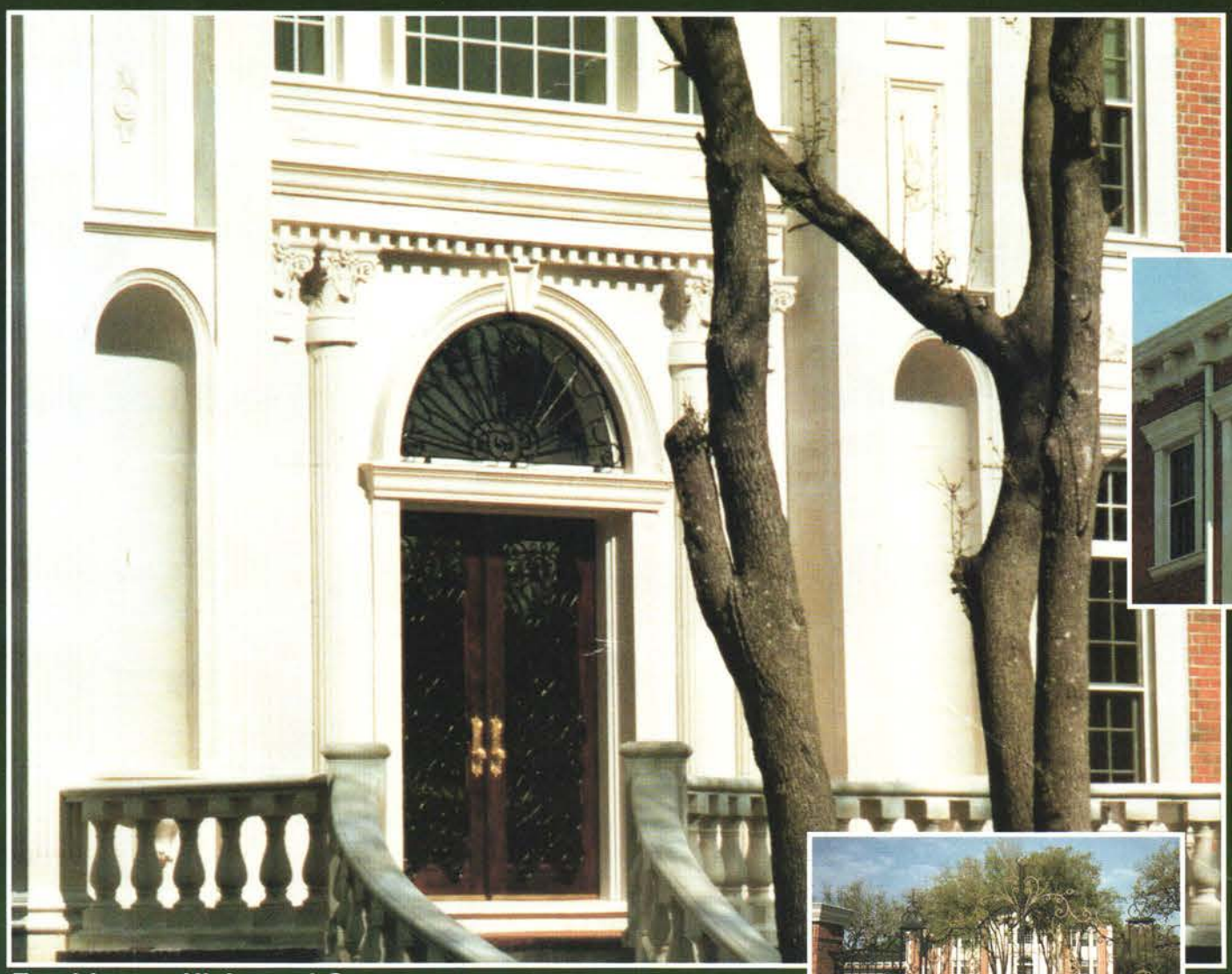

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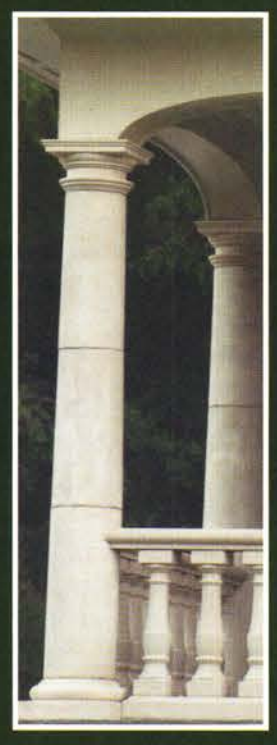

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WRITE IN NO. 863

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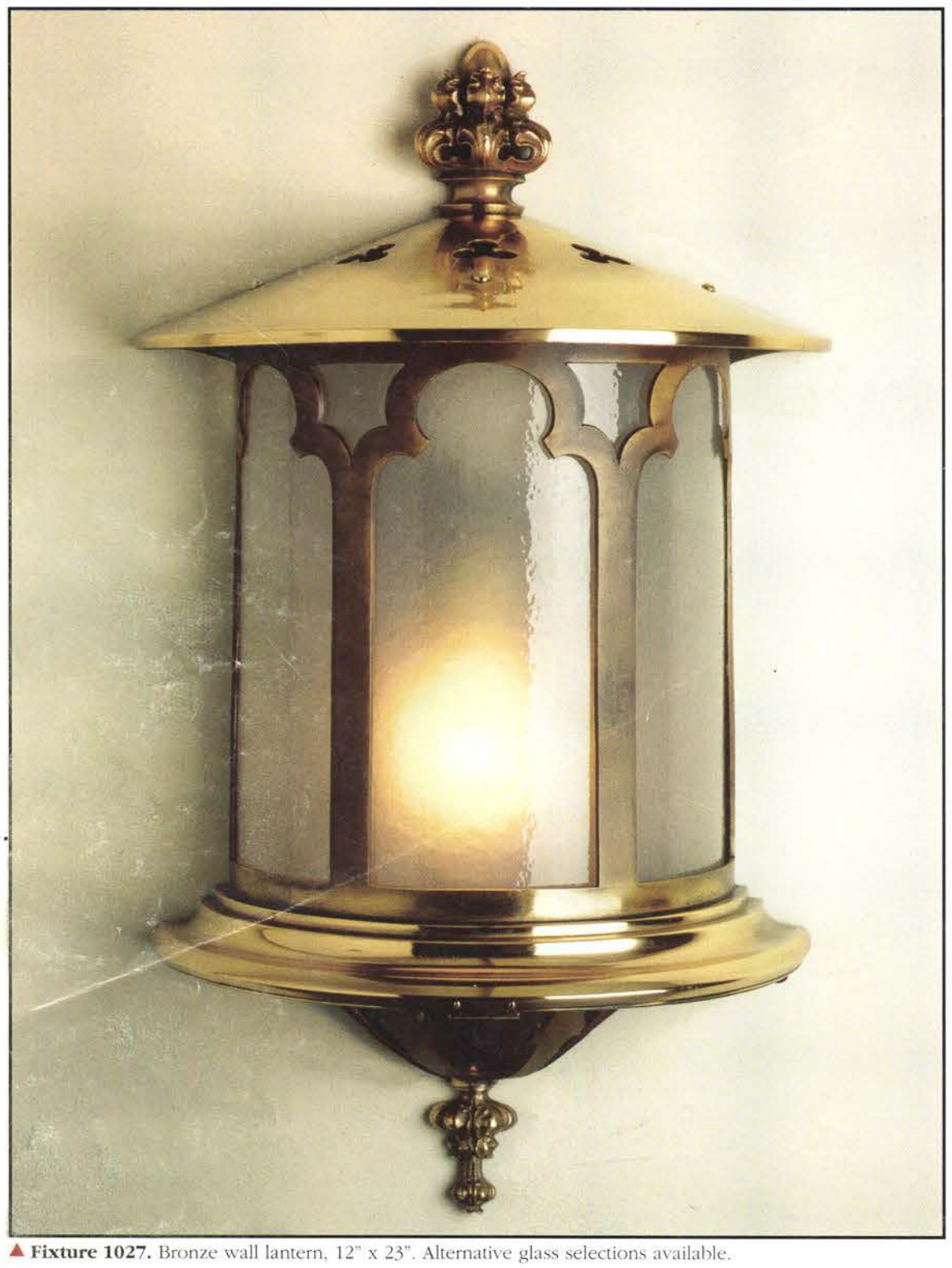

▲ **Fixture 1027.** Bronze wall lantern, 12" x 23". Alternative glass selections available.

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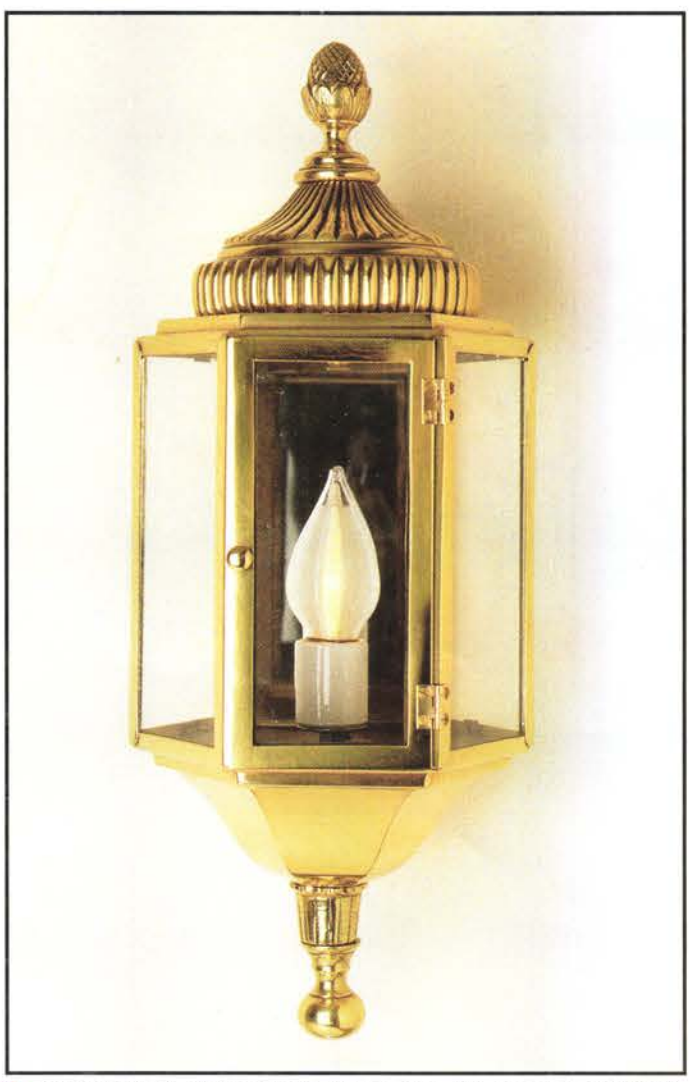
▲ **Fixture W428.** Copper wall lantern with brass trim & reflector. 2 sizes available: 11"x 23" or 9" x 17". Can be supplied with 2 or 3 candelabra base sockets. Alternative finishes available.



▲ **Fixture 1028.** Brass carriage lamp, 8" x 20". Lamping provided by a single medium base socket for up to 150 watts.

▲ **Fixture 1002.** Brass wall lantern, 12" x 27", 3 candelabra base incandescent sockets up to 60 watts each. Alternative glass, finish and lamping available.

▲ **Fixture 1007.** Brass wall lantern. 2 sizes available: 13" x 27" (above) and 9" x 22". Incandescent sockets up to 60 watts each.

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