When Baseball Collides With History

Having a major-league ballpark is a coveted municipal status symbol of the '90s. But when a new baseball stadium has to be insinuated into a historic downtown area, an in-your-face rhubarb is sure to erupt.

BY EVE M. KAHN

On three dozen downtown acres once covered by a sprawling rail yard and unglamorous 19th-century warehouses, Denver is inserting a 43,000-seat ballpark called Coors Field. From the bleachers, two years from now, spectators will watch a newly invented team, the Colorado Rockies, play ball against a dramatic backdrop of Rocky Mountains and Denver skyscrapers. And the park — by HOK Sport, of Camden Yards in Baltimore fame — is either an architectural godsend or a nightmare, depending on whom in Denver you ask.

Some observers complain that the Field's construction wiped out nearly a dozen serviceable buildings on the site, and that it may induce a wave of nearby demolition as neighbors prepare for potential parking-lot profits. More enthused locals say that the Field's design pays at least some homage to its neighbors with traditional brickwork and low-scale at-the-sidewalk facades and also manages to incorporate three original structures. In other words, neither preservation nor innovation have won or lost in Denver; and this story of compromise may be a morality tale of our times, reflecting just how tricky it has become to build with an eye on past and future.

What the ballpark will replace: The Windsor Farm Dairy, with its string of bays and its poignantly faint attempts at ornamentation, could not be efficiently incorporated into the design, according to HOK; it was too low, too far back from the sidewalk, and too plagued with fire-code and disabled-access problems to serve as a ballpark-wall section. (Photo: courtesy RNI, Facilities Corporation)

What the ballpark will save, sort of: Student Movers rose to the right height for ballpark-wall incorporation, but it will be barely recognizable after overhaul. It will lose its left-flank tower, its patina, its bays, and its signage (although a warehouse-turned-design center of similar proportions and age down the block proudly retains several generations of peeling painted lettering). (Photo: courtesy RNI, Facilities Corporation)

How the ballpark will try to fit in: At its most prominent corner, it will feature to-the-sidewalk storefronts, brick walls with sandstone trim, plain marquees hung as of old on exposed supports, and tiers of seats seemingly hovering over the forty-foot-high walls. (Drawing courtesy HOK Sport)
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WRITE IN NO. 234
Furnishing Rambles & Respites

BY SHARON GARBE
One need only view such 1st century Roman fresco masterworks as Cubiculum M from the villa at Boscoreale in the Metropolitan Museum of Art, or Livia’s Garden from Prima Porta in the National Roman Museum to be reminded of the ancient tradition of landscaping. The cultivated garden, once only for the elite, became part of a social reform movement during the 19th century. Frederick Law Olmsted, whose many civic parks set the standard for pastoral design, has been quoted as hoping that his scenic landscapes would “inspire communal feelings among all urban classes, muting resentments over disparities of wealth and fashion.” Inherited sentiments such as this, and the burgeoning awareness of environmental resources and preservation issues, make this a time to start payin closer attention to the wisdom contained in the historical landscaping tradition.

Who’s On The SourceList
From the overwhelming response we received from the 866 suppliers contacted for this Landscape and Streetscape Sourcelist, it is clear that period gardens, especially, are on the upswing. We are pleased to present our readers with 85 craftspeople and suppliers of such diverse products as: Gothic follies, memorial urns, grottos, carillons, mulch blankets, railroad ties, rustic bridges, sundials, gazing balls, Colonial and Victorian streetlights, and all manner of exterior furniture including covered seats.

We did not include suppliers of fences, gates, gazebos, or other outdoor structures in this Special Report, because these were covered in separate Reports in our March/April 1993 issue.

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WRITE IN NO. 847
WRITE IN NO. 261
WRITE IN NO. 103
### Traditional Building's SourceList of Landscape & Streetscape Products

#### Compiled by Sharon Garbe

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>SPECIALTY</th>
<th>Literature</th>
<th>Brushed/Foil</th>
<th>Patinated/Cast</th>
<th>Balustrades</th>
<th>Street Furniture</th>
<th>Garden Lighting</th>
<th>OTHER</th>
<th>Custom</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.J.P. Coppersmith</td>
<td>20 Industrial Parkway, Dept. TB</td>
<td>This company manufactures an extensive line of Early American lighting fixtures for interior as well as exterior use.</td>
<td>Free Write in No. 936</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>Street numbers</td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td>AK Exteriors</td>
<td>298 Leisure Ln., Dept. TB</td>
<td>Company specializes in cast-aluminum Victorian furniture and fixtures.</td>
<td>Free Write in No. 893</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>Mailboxes, hitching posts</td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td>Alchemie</td>
<td>1550 Gacoby Rd., Dept. TB</td>
<td>Ceramic studio specializes in relief tile, fountains, and architectural ceramics.</td>
<td>Free Write in No. 1</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>Signage &amp; plaques, urns &amp; planters, cast &amp; hand-carved ornament</td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td>Architectural Cast Stone</td>
<td>1201 E. Hunter Ave., Dept. TB</td>
<td>Company produces exterior and interior products in cast stone, paint grade cement, GRC, and GFRC. Sandstone, travertine finishes and color matching available.</td>
<td>Free Write in No. 147</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>Columns, piers, planters, mailboxes</td>
<td>25%</td>
<td></td>
</tr>
<tr>
<td>Architectural Facades Unlimited</td>
<td>44 W. Julian, #240, Dept. TB</td>
<td>Company carries stone pavers, tiles, and cladding in 5 colors, for interior and exterior use.</td>
<td>Free</td>
<td></td>
<td></td>
<td></td>
<td>Signage</td>
<td>20%</td>
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</tr>
<tr>
<td>Arizona Flagstone Corp.</td>
<td>1803 N. 40th St. #100, Dept. TB</td>
<td>Company specializes in traditionally styled teak benches and dining furniture, as well as planters. All products are made in England and stocked in the USA.</td>
<td>Free Write in No. 954</td>
<td></td>
<td></td>
<td></td>
<td>Planters</td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td>Barlow Tyrie</td>
<td>1263-230 Glen Ave., Dept. TB</td>
<td>Company offers a wide array of outdoor products for commercial and residential sites.</td>
<td>Free Write in No. 417</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>Mailboxes &amp; stanchions, street and wall-mounted clocks, planters and urns, waste receptacles, mailboxes</td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td>Beacon Products, Inc.</td>
<td>6501-19th St. East, Dept. TB</td>
<td>Company produces custom cast-aluminum decorative and architectural products.</td>
<td>Free Write in No. 418</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>Mailboxes, planters / urns</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>Besco Mfg., Co., Inc.</td>
<td>P.O. Box 68, Dept. TB</td>
<td>Company specializes in cast-concrete architectural and landscape finishes.</td>
<td>Free Write in No. 603</td>
<td></td>
<td></td>
<td></td>
<td>Fences &amp; gates, kiosks</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>Big D Metalworks</td>
<td>2002 Quincy St., Dept. TB</td>
<td>Company manufactures trellis, Statuary, mailboxes, and garden products.</td>
<td>Free Write in No. 216</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>Trivets, lattice work, fencing</td>
<td>50%</td>
<td></td>
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<tr>
<td>Blake Ind.</td>
<td>P.O. Box 155, Dept. TB</td>
<td>Manufactures a line of wooden finials for exterior use (brochure available), and custom-louvered balusters, posts, newels, columns.</td>
<td>Free Write in No. 475</td>
<td></td>
<td></td>
<td></td>
<td>Mailboxes, planters / urns</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>Boston Turning Works</td>
<td>42 Plympton St., Dept. TB</td>
<td>This company manufactures trellis and lattice works that can be configured in 20 Arbor and pergola designs, in cedar and bent oak.</td>
<td>Free Write in No. 184</td>
<td></td>
<td></td>
<td></td>
<td>Statuary</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>Brandon Industries, Inc.</td>
<td>419 Westgrove Dr., Dept. TB</td>
<td>Company makes custom metalwork for over 150 years in cast bronze and aluminum. Services include designs and pattern making.</td>
<td>Free Write in No. 916</td>
<td></td>
<td></td>
<td></td>
<td>Signage, plaques &amp; cast letters</td>
<td>100%</td>
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</tr>
</tbody>
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WRITE IN NO. 264

WRITE IN NO. 940

WRITE IN NO. 733

WRITE IN NO. 439

WRITE IN NO. 435
<table>
<thead>
<tr>
<th>COMPANY</th>
<th>SPECIALITY</th>
<th>Literature</th>
<th>OTHER</th>
<th>% Custom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buechel Stone Corp.</td>
<td>Quarry and fabricator of products in Wisconsin Niagra dolomite and granite.</td>
<td>Free</td>
<td>Retaining walls, staircases, waterfalls</td>
<td>15%</td>
</tr>
<tr>
<td>Burton Woodworks</td>
<td>Company produces traditionally styled outdoor furniture, decking materials and accessories, and wood or PVC lattice.</td>
<td>Free</td>
<td>Mailboxes, lattice, trellises, turnings, handrails</td>
<td>5%</td>
</tr>
<tr>
<td>CSI Custom Structures, Inc.</td>
<td>Manufacturers of standard and custom site furniture in various woods and metals.</td>
<td>Free Write in No. 339</td>
<td>Ash urns, planters, bollards, waste receptacles</td>
<td></td>
</tr>
<tr>
<td>California Rockscape</td>
<td>Custom design and construction of lightweight, artificial (GFRC) rocks and water systems.</td>
<td>Free</td>
<td>Waterfalls, streams, ponds, grottoes</td>
<td>95%</td>
</tr>
<tr>
<td>Cumberland Designs International</td>
<td>Major design/manufacture of architectural site furnishings.</td>
<td>Free Write in No. 343</td>
<td>Tree grates &amp; guards, urns &amp; planters, sundials, street clocks, bollards &amp; stanchions, waste receptacles, statuary</td>
<td>50%</td>
</tr>
<tr>
<td>City Visions</td>
<td>Manufacturers of Heritage Garden Houses in 15 historic designs. Components may be ordered for other uses.</td>
<td>Free Write in No. 903</td>
<td>Gazebos, pergolas</td>
<td>50%</td>
</tr>
<tr>
<td>Classic Architectural Specialties</td>
<td>Cast aluminum streetscape products in 6 standard colors. Lighting globe styles are available in polycarbonate, and glass.</td>
<td>Free</td>
<td>Signage &amp; plaques, mailboxes, urns &amp; planters, street clocks, bollards &amp; stanchions</td>
<td>0%</td>
</tr>
<tr>
<td>Classic Casuals</td>
<td>Aluminum lamp posts, signs, mailboxes, for commercial and residential use. Also, patio furniture and urns.</td>
<td>Free Write in No. 906</td>
<td>Wall sconces, carrousel horses, planters</td>
<td></td>
</tr>
<tr>
<td>Classic Garden Ornaments, Ltd.</td>
<td>Traditional garden ornaments: Urns, vases, gardeners, pedestals, planter roofs, fountains, and statuary. Specializing in English lead, Whitchford terra cotta, and Haddonstone.</td>
<td>Free flyer Write in No. 232 catalog set $25</td>
<td>Restoration of lead figures, custom iron arches, arbors, carved stone</td>
<td>5%</td>
</tr>
<tr>
<td>Colonial Castings</td>
<td>Company offers cast-metal furniture and lighting fixtures in historical styles.</td>
<td>Free Write in No. 261</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cross Industries, Inc.</td>
<td>Lattice panels, channels, and installation accessories made from reinforced PVC. Available in 3 weights, 4 patterns, 16 colors, and custom dimensions. Also, polymer-covered lumber posts and rail.</td>
<td>Free Write in No. 23</td>
<td>Zero-maintenance lattice</td>
<td>35%</td>
</tr>
<tr>
<td>D.M.S. Studios</td>
<td>Versatile sculpture studio offers smiting, carving and molding skills, with a special emphasis on the reproduction of historically styled items.</td>
<td>Free Write in No. 910</td>
<td>Urns &amp; planters, staircases, statuary, cast ornament, sundials</td>
<td>100%</td>
</tr>
<tr>
<td>D&amp;P Specialty Products</td>
<td>Manufactures classically designed mailboxes made of 13 separate aluminum and brass castings welded together. Lockable rear access door.</td>
<td>Free</td>
<td>Mailboxes</td>
<td>10%</td>
</tr>
<tr>
<td>Elderhost Bells, Inc.</td>
<td>Manufacturers of towerclock bells, belltirers, carillons, and associated control equipment.</td>
<td>Free</td>
<td>Street clocks, carillons</td>
<td>90%</td>
</tr>
<tr>
<td>Fine Architectural Metalsmiths</td>
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<td>Free Write in No. 264</td>
<td>Fences &amp; gates, topiary forms</td>
<td>100%</td>
</tr>
<tr>
<td>Florestine Craftsmen</td>
<td>Manufacturers of garden ornaments, statuary, fountains, furniture, and accessories in stone, cast iron, lead, aluminum, and bronze.</td>
<td>Free brochure catalog $5 Write in No. 439</td>
<td>Urns &amp; planters, cast and hand-carved ornament, sundials, statuary, pools &amp; cisterns</td>
<td></td>
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## Traditional Building's Source List of Landscape & Streetscape Products

**Compiled by Sharon Garbe**

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>SPECIALTY</th>
<th>Literature</th>
<th>OTHER</th>
<th>% Custom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garden Concepts, Inc.</td>
<td>Traditional wood and metal garden structures and site furnishings.</td>
<td>Catalog $5.</td>
<td>Mailboxes, urns &amp; planters, waste receptacles</td>
<td>75%</td>
</tr>
<tr>
<td>Garden Ornaments Stone</td>
<td>Small iron and cast aluminum line of garden items and furnishings, and architectural components in Vincenza stone.</td>
<td>Free Write in No. 442</td>
<td>Ums &amp; planters, statuary, staircases, hand-carved ornaments</td>
<td>20%</td>
</tr>
<tr>
<td>Garden Source Furnishings</td>
<td>Wrought iron and cast aluminum line of garden seating and dining sets, and American willow and hickory twig furniture.</td>
<td>Free</td>
<td></td>
<td>0%</td>
</tr>
<tr>
<td>Goodwin International</td>
<td>Company offers garden and site products in Vincenza stone, terra cotta, and bronze.</td>
<td>Free Write in No. 416</td>
<td>Ums and planters, columns, finials, statuary, hand-carved ornament</td>
<td>100%</td>
</tr>
<tr>
<td>Green Enterprizes</td>
<td>Company specializes in Victorian furniture such as swings, gliders, tables, and bench sets.</td>
<td>Free Write in No. 966</td>
<td>Bollards &amp; stanchions</td>
<td>100%</td>
</tr>
<tr>
<td>HADC</td>
<td>Traditional and contemporary site lighting. Low voltage and line voltage landscape lighting in cast aluminum, cast bronze, and nonmetallic materials.</td>
<td>Free</td>
<td>Bollards &amp; stanchions</td>
<td>25%</td>
</tr>
<tr>
<td>Haddonstone</td>
<td>British design manufacturers of classical stonework using cast, reconstructed limestone material resembling Portland Stone, with over 500 designs of architectural and landscape elements.</td>
<td>Free Write in No. 847</td>
<td>Temples, pavilions, pergolas, porticos, gate piers, pools, coping, columns &amp; plinths, bollards, finials</td>
<td>25%</td>
</tr>
<tr>
<td>Hanover Lantern</td>
<td>Design-manufacturers of cast aluminum/aluimium lighting fixtures, poles, bollards and accessories for commercial, residential, and landscape lighting applications.</td>
<td>Free Write in No. 344</td>
<td>Bollards &amp; stanchions</td>
<td>25%</td>
</tr>
<tr>
<td>Hardware Plus</td>
<td>Company distributes hardware, plumbing fittings, and vast array of historical architectural products for creating a period look, both inside and out.</td>
<td>Free Write in No. 652</td>
<td>Signage &amp; plaques, mailboxes</td>
<td>26%</td>
</tr>
<tr>
<td>Hen-Feathers &amp; Co.</td>
<td>Specializes in hand-cast, bonded marble resin fountains, statuary, and ornaments finished in patinas of lead, verdigris, rust or antique white.</td>
<td>Free Write in No. 374</td>
<td>Statuary</td>
<td>100%</td>
</tr>
<tr>
<td>Hennessey House</td>
<td>Handmade, old-style wooden flag poles up to 40 ft. Unique construction gives high tensile strength and light weight. All accessories. Poles covered for maintenance; professional discount.</td>
<td>Free Write in No. 118</td>
<td>Wooden flag poles</td>
<td>100%</td>
</tr>
<tr>
<td>Hermitage Gardens</td>
<td>Variety of landscape products ranging from Japanese bridges to fountain pumps. Installation available in North America; will ship worldwide.</td>
<td>Free</td>
<td>Retaining walls, urns &amp; planters, sundials, water control &amp; distribution, statuary, pools &amp; cisterns</td>
<td>100%</td>
</tr>
<tr>
<td>Herwig Lighting</td>
<td>Custom and stock manufacturers of cast aluminum lighting fixtures and street/site products.</td>
<td>Free Write in No. 913</td>
<td>Clocks, bells &amp; carillons, bollards &amp; stanchions</td>
<td>100%</td>
</tr>
<tr>
<td>Historical Arts &amp; Casting</td>
<td>State-of-the-art casting and architectural restoration specialists.</td>
<td>Free Write in No. 121</td>
<td>Ums &amp; planters, bollards, statuary, trellises, mailboxes, tree grates &amp; guards, signage</td>
<td>100%</td>
</tr>
<tr>
<td>Innovative Concrete Design Corp</td>
<td>StoneWall Select is a dry stacked, light-weight retaining wall system made of high-strength concrete. Modules have natural stone appearance; variety of integral colors.</td>
<td>Free</td>
<td>Retaining walls</td>
<td>0%</td>
</tr>
<tr>
<td>Johnson Atelier</td>
<td>Major casting and metal fabrication facility offering a full range of services. All work is custom — from one-of-a-kind sculpture to architectural restoration projects.</td>
<td>Free Write in No. 733</td>
<td>Any cast or fabricated metalwork</td>
<td>100%</td>
</tr>
<tr>
<td>Kingsley-Bate, Ltd.</td>
<td>Hand-carved and traditionally styled teak and mahogany garden furniture, including hanging swings.</td>
<td>Free Write in No. 963</td>
<td>Plants</td>
<td>100%</td>
</tr>
</tbody>
</table>
Elegant Furnishings by

PASHAYAN

Edward Pashayan & Co., Inc. founded in 1946, is a leader in the field of authentic reproductions of 18th century French Lamps, Sconces, and Elegant Furniture for modern and period interior and exteriors. Throughout consistent dedication to quality by European craftsmen, and their reputation for reliability, they have attracted clients as distinguished as the Pierre and Plaza Athenee Hotels in New York and the Royal Air Terminal in Dhahran, Saudi Arabia.

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Fax: (310) 911-9972

WRITE IN NO. 913

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• Ornament • Lettering • Complex Moldings • Statuary • Portraits

Skilled European-trained sculptor provides stone services to architects, designers, and contractors. Reproductions in Marble, Limestone, or Bronze.

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WRITE IN NO. 915

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Lancaster, CA 93534
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WRITE IN NO. 1
<table>
<thead>
<tr>
<th>COMPANY</th>
<th>SPECIALTY</th>
<th>Literature</th>
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</tr>
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<tbody>
<tr>
<td>Knight Foundry</td>
<td>Manufacturer of cast iron fencess, gates and related ornamentation of all styles. Complete pattern-making facilities; will match existing or fabricate new designs.</td>
<td>Free Write in No. 444</td>
<td>Fences &amp; gates</td>
<td>100%</td>
</tr>
<tr>
<td>Lake Shore Industries, Inc.</td>
<td>Manufacturers of custom cast aluminum signs and plaques. Specialize in street signs, town seals, historical markers, and custom work.</td>
<td>Free Write in No. 673</td>
<td>Signage &amp; plaques, cast ornament</td>
<td>100%</td>
</tr>
<tr>
<td>Lettie Brothers</td>
<td>Authentic turn-of-the-century style lighting fixtures. The King Series is available in two sizes and ten designs, in cast aluminum, brass, and bronze.</td>
<td>Free Write in No. 308</td>
<td>Bollards &amp; stanchions, custom ornamental castings</td>
<td>100%</td>
</tr>
<tr>
<td>Lewin Brick Lettering</td>
<td>Company inscribes names into bricks.</td>
<td>Free Write in No. 277</td>
<td>Sundials, topiary, planters &amp; urns</td>
<td>100%</td>
</tr>
<tr>
<td>Lighting By Hammerworks</td>
<td>Reproduction Colonial lanterns, posts, and wall mounted lanterns available in a variety of finishes.</td>
<td>Free Write in No. 604</td>
<td>Mailboxes</td>
<td></td>
</tr>
<tr>
<td>Lynch &amp; Sons</td>
<td>Company offers large selection of lead, wrought iron, brass, and stone benches, as well as site and garden ornaments.</td>
<td>Free</td>
<td>Sundials, topiary, planters &amp; urns</td>
<td></td>
</tr>
<tr>
<td>Mel-Nor</td>
<td>Company specializes in cast aluminum site products and lighting.</td>
<td>Free Write in No. 406</td>
<td>Mailboxes</td>
<td></td>
</tr>
<tr>
<td>Midwest Railroad Tie Sales, Inc.</td>
<td>Wholesale suppliers of used railroad ties and timbers. 3 grades available; also switch ties and bridge timbers.</td>
<td>Free</td>
<td>Retaining walls, fences.</td>
<td></td>
</tr>
<tr>
<td>Murdock, Inc.</td>
<td>Manufactures a complete line of outdoor drinking fountains and hydrants. Custom capabilities.</td>
<td>Free Write in No. 378</td>
<td>Drinking fountains, hydrants (post &amp; flush box type), pool &amp; beach showers</td>
<td>50%</td>
</tr>
<tr>
<td>Newstamplk Lighting</td>
<td>Custom indoor and outdoor lighting in all styles from metal, glass, and plastic. All energy sources, including gas. Catalog available in Colonial-style fixtures and lanterns.</td>
<td>Free Write in No. 80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noral Lighting</td>
<td>Cast aluminum lighting fixtures with shatter-resistant lenses. Some designs can be adapted for both wall or post mounting.</td>
<td>Free Write in No. 290</td>
<td></td>
<td></td>
</tr>
<tr>
<td>O'Brien Ironworks</td>
<td>Cast and wrought iron home and garden products using iron from recycled automobile engine blocks.</td>
<td>Free Write in No. 379</td>
<td>Planters &amp; urns</td>
<td>10%</td>
</tr>
<tr>
<td>Old Virginia Brick</td>
<td>Company offers traditional wood-molded bricks and specialty brooks, such as tapered arch brooks, oversized brooks, molded shapes (sill and tread brooks, coping bricks, etc.). Paving bricks come in 12 colors.</td>
<td>Free Write in No. 90</td>
<td></td>
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</tr>
<tr>
<td>Pacific Engineered Products</td>
<td>Waterscapes control specialists; custom controls for fountains, lakes, streams, and waterfalls.</td>
<td>Free</td>
<td>Water &amp; fountain controls</td>
<td>100%</td>
</tr>
<tr>
<td>Pushanay</td>
<td>Company specializes in authentic reproductions of 18th-c. French lampposts, lighting fixtures, and furniture.</td>
<td>Free Write in No. 364</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>Phoenix Carved Stone</td>
<td>Custom cutting, carving, and turnings of limestone landscape and architectural products in traditional and contemporary designs. Can provide design services.</td>
<td>Free Write in No. 287</td>
<td>Signage &amp; plaques, urns &amp; planters, sundial bases, Japanese lanterns, pagodas</td>
<td>100%</td>
</tr>
<tr>
<td>Popovitch Assoc. Inc.</td>
<td>Garden light fixtures in shape of flowers, for ground and wall installation. Bases are galvanized aluminum, stems are copper. Globes are ceramic, glazed in and out.</td>
<td>Free Write in No. 381</td>
<td></td>
<td>0%</td>
</tr>
</tbody>
</table>

*COMPiled BY SHARON GARBE*
Put the Spirit of 1776 in Your Front Yard.
A few of these prized wooden poles still grace mansions, schools and courthouses across America. We’re recreating this era for today’s caring homeowner in hand-made wooden beauties with the classic square-to-tapered-round design. Made of select Douglas Fir, they’re turned on a custom lathe and painted vertical grain with ten coats of satin finish. Light weight, strong. Shipped to your home, ready to install on our rust free steel base. Poles come with all accessories plus a brass custom engraved and numbered owner’s plaque and Star and original Star flags. Our poles are made to order and guaranteed to last a lifetime. Can’t buy at retail. Allow 6 to 8 weeks for delivery. Write or call for free color brochure, details.

ROBINSON FLAGSTONE Since 1919
Pennsylvania flagstone (bluestone) available in wide range of panel shades and textures. Our flagstone is a durable, natural sandstone with natural cleft surface. Various custom edge treatments available. Among its many uses:
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- Flooring
- Treads
- Mantels & Hearths
- Coping for pools, spas, and fountains
- Sills
- Benches
Our specialty is "tailor-made" flagstone with all stones numbered and cut to fit in accordance with numbered shop drawings prepared by us. Call, FAX, or write for free brochure and literature.

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Recreations for the Home and Garden.
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Our products contain 100% Recycled Material.
## TRADITIONAL BUILDING's Source List of Landscape & Streetscape Products
### Compiled by Sharon Garbe

<table>
<thead>
<tr>
<th>COMPANY</th>
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<tbody>
<tr>
<td>Red Baron's Antiques</td>
<td>Marble and stone statuary, fountains, garden ornaments and furniture, as well as architectural site products. Holds 2 large auctions a year; ever-changing inventory.</td>
<td>Free</td>
<td>Urns &amp; planters, cast &amp; hand-carved ornament, street clocks, statuary, staircases</td>
<td>0%</td>
</tr>
<tr>
<td>Reed Brothers</td>
<td>Company specializes in hand-carved, country-style furniture in redwood for outdoor use, and pine for indoors.</td>
<td>Free</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>Robinson Flagstones</td>
<td>Company fabricates flagstones from Pennsylvania Bluestone (not state) which can also be used for interior applications such as fireplace mantels and surrounds.</td>
<td>Free Write in No. 979</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>Rockscapes Inc.</td>
<td>Company specializes in low-voltage landscape lighting.</td>
<td>Free Write in No. 322</td>
<td>Mailboxes, portable waterfalls</td>
<td>10%</td>
</tr>
<tr>
<td>Wm. Bateman Raifiner &amp; Co.</td>
<td>Company produces elegant metal birdbaths in limited editions that fall into the category of exterior architectural ornament. Custom designs.</td>
<td>Catalog $10</td>
<td>Exterior ornamental bird cages</td>
<td>100%</td>
</tr>
<tr>
<td>Spring City Electrical Mfg. P.O. Box 19, Dept. TB Spring City, PA 19475 (215) 948-4000</td>
<td>Cast iron high-performance lighting and traffic control systems to custom designed products to historic reproductions.</td>
<td>Free Write in No. 103</td>
<td>Signage &amp; plaques, mailboxes, cast ornament, street clocks, bollards &amp; stanchions</td>
<td>100%</td>
</tr>
<tr>
<td>Stone Forest, Inc. P.O. Box 2840, Dept. TB Santa Fe, NM 87504 (505) 986-8803</td>
<td>This company creates hand-carved granite garden ornaments and lighting which combine Japanese and western design elements.</td>
<td>Free Write in No. 414</td>
<td>Hand-carved ornament, bird baths, stone spheres, sundial plinths, pedestals</td>
<td>20%</td>
</tr>
<tr>
<td>The Thaxter Cottage Gardeners 121 Driscoll Way, Dept. TB Gaithersburg, MD 20878 (301) 530-6211</td>
<td>Historic English style covered garden benches which are well-suited for public parks, gardens, church grounds, golf courses, and private residences.</td>
<td>Free Write in No. 386</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thomas Studio, Inc. 10809 Crestview Dr., Dept. TB Jonesboro, AR 72401 (512) 267-0051</td>
<td>Commissioned figurative and abstract cast bronze or stone sculpture. Architectural and restoration castings and fabrications in bronze, aluminum, and composites.</td>
<td>Free Write in No. 801</td>
<td>Ums, planters, sundials, hand-carved and cast ornament.</td>
<td>100%</td>
</tr>
<tr>
<td>Timeless Garden P.O. Box 5406, Dept. TB Arlington, VA 22205 (703) 536-8958</td>
<td>This small company researches and reproduces historic garden gates. The gates are handcrafted, one at a time, from clear all-heart redwood.</td>
<td>Free Write in No. 990</td>
<td>Historic gates</td>
<td>100%</td>
</tr>
<tr>
<td>Trimbale House Corp. 4658 Old Peachtree Rd., Dept. TB Norcross, GA 30071 (404) 648-1972</td>
<td>Company offers traditional gas and electric lanterns and street lights.</td>
<td>Free Write in No. 105</td>
<td>Bolards</td>
<td>20%</td>
</tr>
<tr>
<td>Urban Archaeology 285 Lafayette St., Dept. TB New York, NY 10014 (212) 431-6969</td>
<td>Architectural antiques and one-of-a-kind lighting fixtures from the Victorian period through the 1940's, as well as line of reproduction light fixtures.</td>
<td>Free Write in No. 299</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verdin Company 444 Reading Rd., Dept. TB Cincinnati, OH 45202 (513) 543-0488</td>
<td>Manufactures a wide variety of streetclocks, tower clocks, and clock chiming systems. Also bells and bell ringing equipment; clock and bell renovation and servicing.</td>
<td>Free Write in No. 435</td>
<td>Street clocks, carillons, bronze bells</td>
<td>20%</td>
</tr>
<tr>
<td>Walpole Woodworkers &quot;767 East St. (Rt.27), Dept. TB Walpole, MA 02081 (508) 668-2800</td>
<td>Manufactures wide variety of period fences and gates, from pealed-pole pickets to exact copies of Colonial Williamsburg originals. Gazebos</td>
<td>Free</td>
<td>Fences, gates, gazebos</td>
<td>25%</td>
</tr>
<tr>
<td>Western Wood Structures P.O. Box 130, Dept. TB Tuscaloosa, AL 35402 (205) 692-6900</td>
<td>Designers and suppliers of treated timber bridges from 20 ft. to 100 ft. spans, for all types of loading and uses.</td>
<td>Free</td>
<td>Wooden bridges</td>
<td>50%</td>
</tr>
<tr>
<td>Windsor Designs 37 Great Valley Pkwy., Dept. TB Malvern, PA 19355 (610) 783-5434</td>
<td>Garden furniture in traditional and contemporary designs, made in teak, rosewood, and cast aluminum.</td>
<td>Free Write in No. 328</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Whitehall Products, Ltd. 8786 Water St., Dept. TB Montague, MI 49437 (810) 624-8643, (616) 894-2988</td>
<td>This weathervane company now offers decorative garden accessories, such as sundials and bird baths. The cast aluminum products have a weathered bronze finish.</td>
<td>Free Write in No. 398</td>
<td>Sundials, birdbaths</td>
<td>0%</td>
</tr>
</tbody>
</table>
CLASSIC SEATING

This is but one of more than 2500 unique products you’ll find in our catalog. The Book of Garden Ornament: Benches, Gates, Fountains & Pools, Sculpture & Statuary, Planters & Urns, Topiary, Sundials, Weather Vanes and more; plus ideas, specs & sitework suggestions. Send for it today; a current price list is included.

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TRADITIONAL CRAFTSMEN
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(203) 762-8363 FAX (203) 762-5999

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- Waste Receptacles
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- Custom designs

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- Stock Models
- Custom designs

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WRITE IN NO. 414

WRITE IN NO. 399

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PROJECT: Sundance West Cinemas, Fort Worth, TX
ARCHITECT: David M. Schwartz, Architectural Services, P.C.

(1) Aluminum grilled facade building new housing (1) cinema theater. Railings, trash, columns, pop corn stand, etc. were fabricated with benzal aluminum.

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WRITE IN NO. 403

SITEWORK

DIVISION 2
For more information on these companies, consult the SourceList on pp. 8-16.

Fountain with inset view of the control box by PACIFIC ENGINEERED PRODUCTS.

Electric flower power by POPOVITCH ASSOCIATES. The petals of this copper stemmed garden light fixture are made of hand-formed ceramic and fired to varying shades of avocado green. Write in No. 381

This street light by BLAKE INDUSTRIES features 4 cluster Victorian fixtures on a Washington pole. Write in No. 216

The redwood Garden Serving Buffet is designed by Duncan Reed of REED BROTHERS and features a hand-carved vegetable motif with artichoke finials.

The "Sheraton Swing" by KINGSLEY-BATE, LTD. Write in No. 963

ROBINSON FLAGSTONE designed and fabricated the radial-cut Pennsylvania bluestone for this sitting area/walkway in 1926. This photo, taken in 1988, shows the longevity of the material. Write in No. 979

"The Oakley Circular Bench" from GARDEN CONCEPTS.

These #1 grade used railroad ties are mainly used in landscaping for retaining walls. The dimensions are: 7 X 9 X 6-1/2 inches, and they are available from MIDWEST RAILROAD TIE SALES.

Organically-shaped, lightweight fiberglass pools from HERMITAGE GARDENS.

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"The Giant Egg Cup" lead planter by Bulbeck Foundry is available from CLASSIC GARDEN ORNAMENTS. Write in No. 333

Cast stone ball finial by ARCHITECTURAL CAST STONE. Write in No. 337

Animated figure with glockenspiel, tower clock, time strike, melodies, and computer-controlled system for site in Vail, Colorado by ELDERHORST BELLS, INC.

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WRITE IN NO. 308
BARLOW TYRIE offers this Rothesay teakwood bench in 6 ft. (shown here) and 8 ft. Write in No. 954.

HISTORICAL ARTS & CASTING produced this original 2-1/2-ton, 12-ft.-tall cast bronze fountain for the Governor's Mansion in Annapolis, Md. All of the models for casting had to be created from the artist's designs. Write in No. 121.

This family of lead dolphins (each one is piped for use in fountains) was produced by FLORENTINE CRAFTSMEN. Write in No. 639.

The "Saratoga", a solid bronze address plaque by BRONCENX, LTD., is available in 3 different sizes: 13 x 10 inches, 11 x 8 inches, and 9 x 9 inches. Write in No. 916.

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MURDOCK FOUNTAINS offers this Art Deco-inspired drinking fountain called the Lily White. Bowl and bubbler are made of polished brass. Write in No. 379.

This portable waterfall from CALIFORNIA ROCKSCAPES measures 2-1/2 X 3 X 4 ft., and can be used indoors or outside.
LANDSCAPE & STREETSCEAPE FURNISHINGS PORTFOLIO

For more information on these companies, consult the Source List on pp. 8-16.

Shown above are two fountain spitters by ALCHEMIE CERAMIC STUDIO. Write in No. 1

"Trellis Arm Chair" by designer John Caldwell. The chair is made of cast aluminum and is available with a series of accompanying dining tables and console table from GARDEN SOURCE FURNISHINGS.

HANOVER LANTERNS offers low voltage garden lighting in a variety of styles, such as these Japanese models. Write in No. 344.

PASHAYAN specializes in 18th-century French lighting fixtures, such as this hanging model. Write in No. 364

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The video is available for $10 and the Technical Manual for $35. However, the Institute will make the video available on a complimentary basis to professionals who write on their letterhead to Cast Stone Institute, 3810 Lee Rd., Suite 230, Winter Park, FL 32789. Phone: (407) 740-7721. Fax: (407) 740-6321.
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The face of this structure, which is patterned after the Electric Tower of the 1901 Pan American Exposition, is a white matte glazed terra cotta with masonry backup. In 1964, the building was cleaned and sealed with a clear preservative and the lantern portion of the tower was sandblasted and painted.

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Finding Your Niche in the Paneling Market

Craftspeople approach the construction of paneled interiors with different methodologies. Make sure you match the project — its scope and budget — with the appropriate fabricator.

BY JUDITH SIEGEL LIEF

Agreed: The more carefully specs are determined at the beginning of a project — depth of profiles, joinery detail, wood species, finish — the fewer problems will occur later on.

But how to select one paneling supplier over another? Here are four different craftspeople who each approach paneling fabrication in a slightly different way.

Peter Strasser, president of his Monsey, NY, company of the same name, has spent most of his professional career working on historic restorations. He excels with clients who are educated and know what they want. He has informal guidelines for how one can discern high-quality craftsmanship:

- **Look at previous work.**
  - (1) Gently rub your hand over the finish. Did they sand between layers of finish? (2) Look at the moldings. Do planer marks show? (3) With wainscot, paneling, and windows, check the scale of the room. Do the proportions seem correct? (4) What is the detail in the inside corner; and was it sensitively thought through? (e.g. are there equal widths at all corners?)
  - That’s where problems will show if the job has not been properly laid out.

- **Choosing wood.** Choices are flat-sawn, rift-sawn, and quarter-sawn. In Strasser’s opinion, the best combination of grains and allowance for wood movement is rift-sawn rails and stiles and quarter-sawn panels.

- **Are you painting or staining?** If you’re painting, pine or poplar are perfectly adequate. For staining, grainier woods create a richer visual texture.

- **John McCary, of M.L. Condon Company, Inc., finds that problems arise when clients either aren’t sure of what they want; don’t have a sense of what the room should look like ultimately; or don’t have a good understanding of classical proportions. “The pencil can draw some wonderful things, but if you don’t understand wood, you don’t know what can actually be made.” But, he reassures, “We try to make sure we knock all the bugs out before we get started.”

  Their niche is an unlimited number of molding profiles. Any drawing or sample can be duplicated because they grind their own knives. (Sometimes they come across a pattern that can’t be made in one piece, however.) Condon’s other strength is that they can fabricate in woods “from ash to zebra;” they have found a strong demand for exotics.

Fred Gutnick, president of Executive Woodsmiths, has determined not to use solid-wood panels because the movement can be vast from side to side. “Unless you have perfect climate control, you can’t guarantee that panels won’t crack, or that paint jobs won’t be ruined.” So he uses a veneer-core plywood panel with applied edge molding in a cove-and-stick solid-wood frame. The middle is very stable, and he can use up to a 4 ft. x 8 ft. panel. Because the majority of the work that he does is painted, he uses mostly poplar with birch. For stain grade, he’ll use birch, red oak, cherry, or mahogany.

His way of avoiding problems is to have the client provide measurements from a checklist he submits, and then he cuts the panels 1 in. larger for trimming on site since the building is perfectly plumb.

John Conrad Bernstein, president of his own company, which also bears his name, was trained in architectural history. So when he got into the paneling business, he brought with him authentic tools of the period: 18th- and 19th-c. planes, chisels and mallets, because he finds it hard to achieve an authentic ‘period look’ with modern machinery. For most of his historic projects (which make up the bulk of his work anyway), he finds hand-tooling perfectly adequate (and surprisingly economical) for turning out yards of paneling. And, because most of his clients are professionals dealing with landmark properties, they know that part of the look of period woodwork is what happens to wood naturally, and they come to John for that.

--

The Editors surveyed 210 manufacturers of architectural paneling and moldings for the following Source List and selected 30 that can both meet the needs of a national market and are most attuned to traditionally styled wood interiors.

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The letterhead.

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<th>Primary Woods</th>
<th>Paneling/ Wainscots</th>
<th>Carved/ Embossed</th>
<th>Moldings</th>
<th>Door/Window Casing</th>
<th>Paneling Installation</th>
<th>% Custom</th>
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<td>This company houses over 1,400 molding knives, with 52 expressivity for paneling. Custom graining to match existing profile, also custom curved paneling and molding.</td>
<td>Free Write in No. 680</td>
<td>Ash, basswood, cherry, Honduran mahogany, hard &amp; soft maple, red &amp; white oak, teak, walnut</td>
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<tr>
<td>Chesapeake Hardwood Products, Inc.</td>
<td>201 Dexter St. W., Dept. TB</td>
<td>This company manufactures plywood wall paneling, hardwood paneling, hardwood plywood, pre-cut wainscot panels, solid-wood plank paneling with baseboard and chair rail.</td>
<td>Free Write in No. 368</td>
<td>Indonesian mahogany, oak, birch, cherry, walnut, lauan</td>
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<tr>
<td>Craftsman Lumber Company, Inc.</td>
<td>P.O. Box 222, Dept. TB</td>
<td>This company manufactures plywood wall paneling, hardwood paneling, hardwood plywood, pre-cut wainscot panels, solid-wood plank paneling with baseboard and chair rail.</td>
<td>Free Write in No. 342</td>
<td>Pine, oak, cherry, maple</td>
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<tr>
<td>M.L. Condon Co., Inc.</td>
<td>250 Ferris Ave., Dept. TB</td>
<td>Large inventory of stock and custom moldings in a wide range of wood species: custom moldings in any wood to match any profile. Also floors, window casings, wainscoting, stair rails, dentil, interior and exterior millwork, custom turnings.</td>
<td>Send $2 for catalog</td>
<td>All hardwoods incl. red oak, mahogany, walnut, cedar, cypress, fir, pine, ash, cherry, chestnut, rosewood, redwood, more</td>
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<tr>
<td>Craftsman Lumber Company, Inc.</td>
<td>P.O. Box 222, Dept. TB</td>
<td>Complete line of solid-wood paneling including panels w/ grilles and fret partitions; wall paneling; oak paneling, oak moldings and bar rails; cornice moldings, baseboards/chair rail.</td>
<td>Free Write in No. 131</td>
<td>Red oak, maple, mahogany, walnut, cherry, poplar, others</td>
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<tr>
<td>Driwood Moulding Co., Inc.</td>
<td>P.O. Box 1729, Dept. TB</td>
<td>Manufacturers of sectional wall panels and embossed hardwood moldings, which can be configured to create cornices, chair rails, ceiling panels, mantels, and more. Variety of species available.</td>
<td>Free</td>
<td>Poplar, oak, mahogany, walnut</td>
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<td>Goodrich Works</td>
<td>364 Fifth Ave., Dept. TB</td>
<td>Fine finish woodwork includes paneling, moldings, cabinetry, furniture, veneer and stone inlays; custom and one-of-a-kind designs specialty.</td>
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<tr>
<th>COMPANY</th>
<th>SPECIALTY</th>
<th>Literature</th>
<th>Primary Woods</th>
<th>Paneling/ Wainscot</th>
<th>Carved/ Embossed</th>
<th>Moldings</th>
<th>Door/Window Casing</th>
<th>Paneling Installation</th>
<th>% Custom</th>
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<tr>
<td>Halldays America, Inc.</td>
<td>P.O. Box 731, Dept. TB</td>
<td>Imports of English Georgian- and Regency-style paneling and mantels. Measuring, design and installation.</td>
<td>Free</td>
<td>Baltic pine, cherry, English/American oak, mahogany, as specified</td>
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<tr>
<td>ILEX Woodworking</td>
<td>1202 Olive St., Dept. TB</td>
<td>Specially millwork shop focuses on cabinetry, paneling, trim, and moldings. The shop is equipped with a 4-head molder with over 500 profiles.</td>
<td>Free</td>
<td>Mahogany, cherry, chestnut, English pine, oak, walnut</td>
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<td>100%</td>
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<tr>
<td>The James Wood Company</td>
<td>P.O. Box 3547, Dept. TB</td>
<td>Manufacturers of a full line of interior hardwood moldings — and pre-coped paneling — for residential and commercial projects using style-and-rail joinery.</td>
<td>Free</td>
<td>Maple, red oak, poplar, cherry, mahogany</td>
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<tr>
<td>C. Larinka Co.</td>
<td>210 Carter Dr., Dept. PB</td>
<td>This company specializes in deep-profile moldings and deep-profile raised-panel wainscot designs. Construction is book-matched, milled-in-mold panel.</td>
<td>Send $6 for catalog</td>
<td>Poplar, cherry, oak, walnut, mahogany, clear white pine</td>
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<tr>
<td>Leslie Bros. Lumber Co.</td>
<td>P.O. Box 699, Dept. TB</td>
<td>V-grooved, end-matched paneling in random widths/random lengths. This mill can produce 6,000 sq ft/day.</td>
<td>Send $10 for samples</td>
<td>Write in No. 367</td>
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<tr>
<td>Maple Grove Restoration</td>
<td>P.O. Box 9194, Dept. TB</td>
<td>This millwork company focuses on Colonial and Victorian wainscoting, raised-panelized paneling, and interior raised-panel mystery. Also baseboards, chair rails, crowns, and dentils. Measuring, design and installation service available.</td>
<td>Send $2 for catalog</td>
<td>Write in No. 563</td>
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<td>N.J. Hardwoods, Inc.</td>
<td>1540 W. Front St., Dept. TB</td>
<td>Stock profiles in poplar and red oak; unlimited range of custom moldings, paneling and cabinetry in all woods.</td>
<td>Send $6 for catalog</td>
<td>Poplar, red oak, all custom woods</td>
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<td>Noble House Fine Wood Interiors</td>
<td>P.O. Box 715, Dept. TB</td>
<td>Wood paneling, moldings, furniture, veniers, and curved work.</td>
<td>Free</td>
<td>As specified</td>
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<td>North Fields Restorations</td>
<td>Box 741, Dept. TB</td>
<td>Large supplier of antique flooring in southern yellow pine; also, hand-hewn beams, mantels, doors, and barn siding.</td>
<td>Free</td>
<td>Southern yellow pine</td>
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<td>Old World Arch. Paneling</td>
<td>115 Allen Blvd., Dept. TB</td>
<td>Experienced firm in architectural paneling and moldings: radius, arch, bar rails, furniture, full carving capability.</td>
<td>Free</td>
<td>All hardwoods, pine, poplar</td>
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<td>Pine Plains Woodworking, Inc.</td>
<td>RR1 Box 74C, Dept. TB</td>
<td>Large stock of raw material that can be milled into wide-plank flooring, moldings, dimension lumber, tongue- and groove paneling, closer custom products.</td>
<td>Free</td>
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<tr>
<td>Santarese &amp; Co.</td>
<td>46 Fairfield St., Dept. TB</td>
<td>This custom shop specializes in fabrication of panelwork, moldings, casework, design service.</td>
<td>Free</td>
<td>All hardwoods and softwoods</td>
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<tr>
<td>Shoegra Hardwood Flooring</td>
<td>P.O. Box 510, Dept. TB</td>
<td>End-matched, pre-sanded, random width and length wood for paneling, flooring, ceilings &amp; domestic woods.</td>
<td>Free</td>
<td>Ash, white red oak, poplar, white pine, cherry, walnut, hard maple</td>
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<td>Southern Architectural Woodwork</td>
<td>7402 Fairfield Rd., Dept. TB</td>
<td>This shop specializes in high-end wood interiors; custom jobs in any domestic or exotic wood; custom matching of fine veneers.</td>
<td>Free</td>
<td>As specified</td>
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<td>States Industries, Inc.</td>
<td>P.O. Box 7037, Dept. TB</td>
<td>This company has a standardized panel format with side- and rail joinery and domestic veneers. Also matching crown and base moldings, and wainscot, unfinished.</td>
<td>Free</td>
<td>All hardwoods</td>
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<tr>
<td>Strasser &amp; Associates, Inc.</td>
<td>35 Hillsdale Ave., Dept. TB</td>
<td>Specializes in historic preservation, restoration, and reproduction of period interiors. Services include: Design, fabrication, installation, and finish work for residential, commercial, and museum work.</td>
<td>Free</td>
<td>All hardwoods and softwoods</td>
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<td>Traditional Line, Ltd.</td>
<td>141 W. 21st St., Dept. TB</td>
<td>Specializes in the restoration and reproduction of all types of interior finishes; small and large projects. The full range of services includes paint removal and refinishing.</td>
<td>Free</td>
<td>All hardwoods as specified</td>
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<td>United Plywood Industries</td>
<td>P.O. Box 943, Dept. TB</td>
<td>Manufacturers of pre-assembled raised-panel sets; different configurations available; blueprint matched wall panels and doors a specialty.</td>
<td>Free</td>
<td>All hardwoods as specified</td>
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<td>White River Hardwoods, Inc.</td>
<td>1197 Megan Hollow Rd., Dept. TB</td>
<td>Over 200 molding profiles in poplar and red oak; also 80 embossed moldings; architectural millwork; curved and radius moldings; more.</td>
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<td>Poplar, red oak, as specified</td>
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BY CLEM LABINE

The roofing industry has recently shown growing appreciation of traditional materials. For example, 15 years ago, it was almost impossible to find a contractor who could repair slate and tile roofs — or replace in kind. The situation has improved, but there are still gaps in available materials.

But the ill-informed contractor is still out there. An acquaintance in the roofing tile business relates this recent case history: "I was called in to look at a 1920's tile roof on an expensive suburban estate. The roof was in basically good condition. Some tiles needed replacing, but it would have only taken about $10,000 and tender loving care to put it back in shape. The next time I saw the job, a roofing contractor had been brought in and declared the roof unsalvageable. He stripped and discarded all the original tiles. Now the owner is facing a re-roofing bill of at least $200,000 to put back something that didn't look as good as what he had two months ago."

An architect called our offices recently looking for a recommendation on a birdproofing product he could paint on a church exterior to repel pigeons. "I know all about that wire stuff," he said, "but I need something that is inexpensive and easy to apply."

We had to tell him that, in our opinion, he was on the wrong track. On historic buildings with a lot of architectural ornament, birdproofing is an art requiring considerable expertise. It's not just a matter of specifying a product and then letting a roofer or the maintenance superintendent take it from there. The skill lies in knowing which building elements need protection, which pests will be encountered, and which product will offer the most protection with the least visual intrusion. Often, successful birdproofing of a large historic building will involve the use of two or more different products.

Further, we told our caller, the chemical 'hot foot' bird repellents he was seeking — even if not prohibited by local animal protection regulations — are of limited value in our estimation. The effectiveness of the chemical diminishes within a year, and paint-on repellants have been known to stain masonry buildings. In our opinion, we told our caller, chemical repellents should not be considered for any building with historic value. As for sonic devices, we have yet to hear of a successful long-term installation on a major building.

Among the successful birdproofing systems are those using stainless steel needles and wires. The best known of the stainless steel systems is Xallite, which has a long track record and is now available in 5 models. Among the other proven products in the U.S. market are the Depigeonal, Birdwire, and Springuard systems from Europe.

In addition to the stainless steel systems, birdproofing technicians will also be careful not to interfere with nearby buildings. The Scare-Eye (an inflatable vinyl sphere with huge silver mylar eyes and a tail) can also be used with good effect in short-term situations for limited durations.

But there are some cases where there is no satisfactory birdproofing method. John Pace, General Manager of Bird Master Bird Control Systems, Woburn, Mass., recalls the time his company was working on the Lincoln Memorial. "We had successfully installed inconspicuous birdproofing on the structure itself. But then we were asked what we could do to keep pigeons from perching on Lincoln's statue. We replied that there was no birdproofing method that wouldn't detract from the figure. The only satisfactory system for the statue itself was regular cleaning."

Since stainless steel is a relatively expensive material, there is a natural tendency on the installer's part to use as little product as possible. "The #1 installation problem I've seen," declares Gellerstedt, "is the installer trying to protect too big an area with too little material."

John Pace of Bird Master agrees on the importance of the installer. "Birdproofing a complicated historic building is not a task for novices," he declares. "Most of the failures we see are caused by roofers or building managers who just don't know about birds," Pace says. "Our philosophy is to use the least amount of birdproofing that will solve the problem. But in order to get away with the minimum amount of visually intrusive material, the installer has to have detailed knowledge of the habits of the birds being controlled and how they interact with the building."

Bird Master designs, manufactures, installs, and sells a proprietary pin-and-wire system called Springuard. Manufactured in the U.S., Springguard has been used successfully on historic buildings in the U.S. for over 4 years. (Pin-and-wire systems have a 25-year track record in England.) Bird Master will either design and install an entire system, or sell its Springguard product separately, along with technical advice on installation.

Building managers will also want to observe how birdproofing is being attached to the building. Mechanical fasteners are the most reliable and long-lasting — but they require penetrating the building surface. Silicone adhesives can also be used, but they require meticulous surface preparation to be effective. Here again, the skill and attention to detail on the part of the installer are paramount.

Wagner is especially enthusiastic about the Birdwire system. The system consists basically of stainless steel pins spaced about 5 ft. apart, with a nylon-covered stainless steel wire stretched between the pins. The height of the pins and spacing between rows of wire varies with the bird pest being controlled. Among the advantages claimed for the pin-and-wire system are:

1. Minimal debris collection
2. Low visual intrusion
3. Low installed cost
4. Pin-and-wire systems won't control all sizes of birds simultaneously, however, and are said to require more expertise to install successfully than the needle-type systems.

John Gellerstedt of Nixalite of America, Moline, Ill., points to the long track record of the Nixalite stainless steel needle system in deterring a wide size-range of birds and other pests. Having seen many successful birdproofing installations over the years, along with failures, Gellerstedt stresses the importance of installing birdproofing products in strict accordance with manufacturer's directions. "Birds are amazingly persistent," he emphasizes. "If they can get a toehold in any small unprotected area, they will start accumulating nesting material and will soon cover over any birdproofing system."

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<thead>
<tr>
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<th>SPECIALTY</th>
<th>Literature</th>
<th>Material Sizes</th>
<th>Wood Shingles/Sheaths</th>
<th>Concrete Tile</th>
<th>Standing Seam Metal</th>
<th>Flat Roof Shingles</th>
<th>Clay Tile</th>
<th>Metal Slates</th>
<th>Other Products</th>
<th>Installation Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adornments For Architecture</td>
<td>Custom fabricator creating architectural embellishments in cast aluminum, bronze, FRP, and wood.</td>
<td>Free</td>
<td>Write in No. 749</td>
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<td>Finials, creating other architectural ornament</td>
<td>✓</td>
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<tr>
<td>AEP-SPAN P.O. Box 150449, Dept. TB</td>
<td>Manufactures a full line of architectural metal roofing profiles with seven new profiles to be issued by the end of the year.</td>
<td>Free</td>
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<td>Architectural sheet metal, snow guards</td>
<td>✓</td>
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<tr>
<td>American Cenwood Corp. P.O. Box 8, Dept. TB</td>
<td>Producers of 2 lightweight, class A fire-rated wood-fiber/cement roofing products: Cenwood Shake and Permalite, designed to replicate the look of wood shingles. 50-year warranty.</td>
<td>Free</td>
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<tr>
<td>Bear Creek Lumber P.O. Box 669, Dept. TB</td>
<td>This mill's line of Western red cedar shakes and shingles includes bapersawn and Victorian fancy cuts. Nationwide delivery.</td>
<td>Free</td>
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<td></td>
<td>Sheet metal roofing, skylights, drainage systems, copper built-in gutter systems</td>
<td>✓</td>
</tr>
<tr>
<td>Bellaire Construction P.O. Box 127, Dept. TB</td>
<td>Specializes in roofing slate and copperwork for historic preservation projects. Slate is available in 9 colors, 2 sizes, and 3 thicknesses.</td>
<td>Free</td>
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<tr>
<td>Bird Control Technologies P.O. Box 135, Dept. TB Douglassville, PA 19518</td>
<td>Bird control programs: Functional &amp; mechanical guarantees; design and install non-destructive control methods; mechanical &amp; chemical solutions; consultation and second opinions; specification writing nationwide.</td>
<td>Free</td>
<td>Write in No. 225</td>
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<td></td>
<td>Birdproofing</td>
<td>✓</td>
</tr>
<tr>
<td>Birdhouses 1083 Thos. Jefferson St..., NW Washington, DC 20007</td>
<td>Distributes and installs a variety of stainless steel birdproofing systems with proven performance records in the U.S. and Europe. Its Network Birdwire system has been approved for use by the General Services administration.</td>
<td>Free</td>
<td>Write in No. 307</td>
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<td>Birdproofing</td>
<td>✓</td>
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<tr>
<td>Bird-X, Inc. 750 W. Lake, Dept. TB Chicago, IL 60661</td>
<td>Non-toxic chemical roof inhibitors, visual and sound devices, and physical barriers.</td>
<td>Free</td>
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<td>Birdproofing</td>
<td>✓</td>
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<tr>
<td>Bird Master 11 Sixth Road, Dept. TB Woburn, MA 01801</td>
<td>Designs and installs birdproofing systems to blend in with existing features of historic buildings. Their Springguard and Netguard systems are installed without penetration of stone or brick face. 5 yr. effectiveness guarantee, nationwide coverage.</td>
<td>Free</td>
<td>Write in No. 483</td>
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<td>Birdproofing; free consulting &amp; design service</td>
<td>✓</td>
</tr>
<tr>
<td>Boston Valley Terra Cotta</td>
<td>Custom manufacturer of architectural terra cotta and roof tile. Extensive experience on historic buildings.</td>
<td>Free</td>
<td>Write in No. 16</td>
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<td>✓</td>
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<tr>
<td>Buckingham-Virginia Slate Corp. P.O. Box 8, Dept. TB Arvonia, VA 22504</td>
<td>Buckingham Slate is quarried from natural stone and its kastrola blue-black color will not fade.</td>
<td>Free</td>
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<tr>
<td>Classic Products, Inc. P.O. Box 701, Dept. TB Piqua, OH 45356</td>
<td>Two styles of metal roofing; Rustic Shingle simulates hand-split cedar shake and Perma-Roof simulates slate shingle.</td>
<td>Free</td>
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<tr>
<td>Copper Coatings 8455 Commerce Ave. #B, Dept. TB San Diego, CA 92121</td>
<td>Manufacturers of surface coatings and patina solutions used to give instant patina to copper and a wide variety of metal roofs and cornices — as well as many other substrates. 7 colors in all.</td>
<td>Free</td>
<td>Write in No. 315</td>
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<td></td>
<td>Sheet metal and copper patinas</td>
<td>✓</td>
</tr>
<tr>
<td>CCN USA, Inc. 8280 College Pkwy., Suite 204 Ft. Myers, FL 33919</td>
<td>Clay roof tile in a wide array of designs: Double-glazed French, flat tiles, barrel, and more in 9 colors and a variety of sizes.</td>
<td>Free</td>
<td>Write in No. 850</td>
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<td>Cor-A-Vent, Inc. 2529 Lincolnway W., Dept. TB Mishawaka, IN 46544</td>
<td>Manufactures a roof-ridge ventilation system that works with shingle, tile, metal, or cedar shake roots.</td>
<td>Free</td>
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<td>Ridge vents</td>
<td>✓</td>
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<tr>
<td>Craycroft Clay Products 2301 W. Belmont Ave., Dept. TB Fresno, CA 93728</td>
<td>Clay roofing tile manufacturer offers 49 combinations of Spanish and non-interlocking flat shapes in earth-tone colors. Nationwide delivery; custom orders a specialty.</td>
<td>Free</td>
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<tr>
<td>Culbertson Enterprises, Inc. 790 E. Market St., Ste 110, Dept. TB West Chester, PA 19382</td>
<td>Complete exterior restoration services including: Roofing, masonry, and concrete evaluation, repair, replacement, and restoration.</td>
<td>Free</td>
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<td></td>
<td>Exterior restoration</td>
<td>✓</td>
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<tr>
<td>Details</td>
<td>Distributors of &quot;Eco-Spec&quot; products: Recycled natural slate, fiber/cement slate, and clay tile for both residential and commercial projects.</td>
<td>Free</td>
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Not a penny was spent replacing its architectural focal point—splendid Ludowici roof tiles.

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<table>
<thead>
<tr>
<th>COMPANY</th>
<th>SPECIALTY</th>
<th>Literature</th>
<th>M MATERIALS</th>
<th>Other Products</th>
<th>Installation Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Durable Slate Co.</td>
<td>Distributors and installers of natural slate with a stock of 200,000 pieces of salvaged slate; specialists in complete slate restoration and new slate roofs. Architectural sheet metal.</td>
<td>Free Write in No. 372</td>
<td></td>
<td>Sheet metal roofing; half-round metal gutters, wood gutter restoration</td>
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</tr>
<tr>
<td>Evergreen Slate Co., Inc.</td>
<td>Natural Vermont roofing slate in wide range of sizes, colors, and weights. Experts in replacement slate matching; new installations; complete architectural services. Slate installation video.</td>
<td>Call for video Free brochure Write in No. 713</td>
<td></td>
<td>Roofing tools, fasteners</td>
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<tr>
<td>Fibercem Corporation</td>
<td>Slate-simulated fiber-cement slates; variety of colors and textures; 50-yr. warranty; zero-flame spread; wind-tested to 150 m.p.h.</td>
<td>Free</td>
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<tr>
<td>Fleckstar Corp.</td>
<td>Installers of Goodyear, Carlisle, Firestone, EPDM roofing; masonry repairs, waterproofing, concrete restoration, structural repairs, specialty epoxy flooring, and epoxy injection.</td>
<td>Free</td>
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<tr>
<td>Harraseeket Roofing &amp; Restoration, P.O. Box 221</td>
<td>Specialists in historic restorations of slate, copper, and tile roofs for over 80 yrs.</td>
<td>Free Write in No. 223</td>
<td></td>
<td>Restoration of slate, copper, tile</td>
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<tr>
<td>W.P. Hickman Co.</td>
<td>Full range of roof-edge products: Copings, fascias, and gravelstops.</td>
<td>Free</td>
<td></td>
<td>Metal roof edges, gravelstops, parapet copings</td>
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</tr>
<tr>
<td>Hilltop Slate, Inc.</td>
<td>New York/Vermont roofing slate in all colors and sizes from 7 quarries. Specialists in matching and slate roofing for restoration.</td>
<td>Free Write in No. 995</td>
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<tr>
<td>Historic Oak Roofing</td>
<td>White and chestnut logs are milled into long-lasting hand-split shakes, smooth-sawn shingles, and split-sawn shingles; 50-yr. warranty.</td>
<td>Free</td>
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<tr>
<td>Historical Arts &amp; Castling</td>
<td>Custom foundry has extensive experience in design and production of architectural castings in iron, aluminum, and bronze for both historic buildings and new construction.</td>
<td>Free Write in No. 121</td>
<td></td>
<td>Cresting, finials, cornices</td>
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</tr>
<tr>
<td>JC Sheetmetal, Inc.</td>
<td>Specialists in landmark and restoration projects; can replicate roofing ornament, cornices, skylights. Architectural sheet metal; large or small projects: all metals.</td>
<td>Free</td>
<td></td>
<td>Cresting, skylights, gutter systems, snow guards, more</td>
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</tr>
<tr>
<td>J.C. Lumber Sheet Metal Co., Inc.</td>
<td>Fabricators and installers of sheet metal roofing, flashings, gutters, conductor heads, finials. Also install slate and tile roofs.</td>
<td>Free</td>
<td></td>
<td>Sheet metal roofing, architectural sheet metal, half-round metal gutters, finials</td>
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</tr>
<tr>
<td>Landmark Rigging, Inc.</td>
<td>Full range of steepeljack and rigging services for repair of steep roofs, cupolas, steeples, etc. Extensive experience on historic buildings.</td>
<td>Free Write in No. 759</td>
<td></td>
<td>Rigging &amp; steepeljack services</td>
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</tr>
<tr>
<td>Lewis Industries</td>
<td>Mills all types of wood gutters, custom moldings, and trim from old-growth heart redwood; custom matching.</td>
<td>Free Write in No. 390</td>
<td></td>
<td>Wood gutters, exterior and interior trim and moldings</td>
<td></td>
</tr>
<tr>
<td>Liberty Cedar</td>
<td>Western red cedar tapersawn shakes, handsplit and resawn shakes, tapersplit shingles, and straight rift shakes. Historic projects a specialty.</td>
<td>Free Write in No. 653</td>
<td></td>
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</tr>
<tr>
<td>Ludwig-Celulon, Inc.</td>
<td>Manufacturers of clay roof tiles for restoration and new work; custom manufacturing of all tiles and patterns; 75-yr. limited warranty.</td>
<td>Free Write in No. 276</td>
<td></td>
<td>Finials, snow guards, copper nails</td>
<td></td>
</tr>
<tr>
<td>MBCI</td>
<td>Fabricators of metal roofing panel systems for residential projects. Available in variety of widths, gauges, and colors (38).</td>
<td>Free</td>
<td></td>
<td>Sheet metal roofing, skylights</td>
<td></td>
</tr>
<tr>
<td>Merchant &amp; Evans, Inc.</td>
<td>Produces a wide variety of architectural metals — standing-seam systems, fascia, soffits, structural standing seam, and aluminum cornices.</td>
<td>Free</td>
<td></td>
<td>Half-round metal gutters, snow guards, drainage systems, metal cornices</td>
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<tr>
<td>Metal Roofing Specialties</td>
<td>Manufacturer and distributor of terne-coated stainless materials for roofing, flashing, and architectural sheet metal applications.</td>
<td>Free</td>
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<tr>
<td>Metal Sales Mfg. Corp.</td>
<td>Manufactures a wide range of traditional metal roofing products, including metal tiles, and Pro-Loc architectural metal roofing.</td>
<td>Free</td>
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</tbody>
</table>
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- Conductor heads & fittings Weather vanes

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<thead>
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<th>SPECIALTY</th>
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<th>M A T E R I A L S</th>
<th>Other Products</th>
<th>Installation Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midland Engineering 52369 U.S. 35 No., Dept T B</td>
<td>Custom designer and installer of traditional roof systems including slate, tile, standing-seam metal, and drainage systems. Experienced on large historical buildings.</td>
<td>Free Write in No. 742</td>
<td>✔ ✔ ✔ ✔ ✔</td>
<td>Lightning protection, creasing, finials, skylights, snow guards, etc.</td>
<td>✔ ✔</td>
</tr>
<tr>
<td>Hunt Miller Co. 20521 Whites Ferry Rd., Dept T B Poolesville, MD 20857</td>
<td>Archetypal sheet metal contractor fabulates historic metal roofs, cornices, finials, conductor heads, and sheet metal ornament.</td>
<td>Free Write in No. 929</td>
<td>✔</td>
<td>Cornices, finials, sheet metal ornament</td>
<td>✔</td>
</tr>
<tr>
<td>MJ Mullane Copper Products 17 Mason St., Dept T B Hudson, MA 01749 (508) 568-0997</td>
<td>Bronze snow guards in eague and standard castings for slate, wood, shingle, and metal roofs. Slate guard easily retrofit to existing roofs with no removal of slate.</td>
<td>Free Write in No. 56</td>
<td>✔</td>
<td>Snow guards Large decorative brochure castings</td>
<td>✔</td>
</tr>
<tr>
<td>New England Slate Co. Burn Pond Road, Dept T B Sudbury, Ma 07535 (802) 247-8809</td>
<td>New and salvaged roofing slates in full color range, especially for matching on restorations. Custom cutting service for special shapes.</td>
<td>Free Write in No. 7</td>
<td>✔</td>
<td>Slateting tools, copper nails, snow guards</td>
<td>✔</td>
</tr>
<tr>
<td>Newport Fastener Co. 1300 Gene Autry Way, Dept T B Anaheim, CA 92805 (714) 385-1111</td>
<td>Roof fastener specialists for 31 years. Manufactures architectural metals for tile roofs, including Tylo-Tyle and Title-Tie fastening systems and hurricane clips for roof tile.</td>
<td>Free Write in No. 391</td>
<td>✔ ✔ ✔ ✔</td>
<td>Birdproofing, snow guards, sheet metal, fasteners for clay &amp; concrete tile</td>
<td>✔</td>
</tr>
<tr>
<td>Nicholson &amp; Galloway, Inc. 261 Glen Head Rd., Dept T B Glen Head, NY 11545 (516) 671-3900</td>
<td>Full-service exterior restoration contractor, including roofing, masonry, sheetmetal, carpentry, surveys, and full restoration programs.</td>
<td>Free</td>
<td>✔ ✔ ✔ ✔</td>
<td>Lightning rods, cresting, skylights, drainage systems, sheetmetal</td>
<td>✔</td>
</tr>
<tr>
<td>Nixalite of America Inc. 1025 16th Ave, Dept T B E. Moline, IL 61244 (800) 624-1189</td>
<td>Nixalite strips present a simple barrier of needle-sharp stainless steel points that do not harm birds, but prevent their landing or roosting on the surface protected. Used worldwide with human society acceptance.</td>
<td>Free Write in No. 37</td>
<td>✔ ✔ ✔ ✔</td>
<td>Bird-proofing products</td>
<td>✔</td>
</tr>
<tr>
<td>W.F. Norman Corp. P.O. Box 523, Dept T B Nevada, MI 49772 (616) 627-4035</td>
<td>Manufactures sheetmetal roofing tiles, finials, and cresting from original turn-of-the-century designs. Large selection of ornamental leader boxes in stock patterns. Custom architectural sheet metal.</td>
<td>Free Write in No. 52</td>
<td>✔ ✔ ✔ ✔</td>
<td>Leader boxes, cresting, finials, custom work.</td>
<td>✔</td>
</tr>
<tr>
<td>Northern Roof Tile Sales P.O. Box 275, Dept T B Millgrove, ONT LOR 1V0 (416) 627-4035</td>
<td>Single source for clay roof tiles and related accessories. All profiles, colors, and finishes. Handmade cresting and chimney pots.</td>
<td>Free</td>
<td>✔ ✔ ✔ ✔</td>
<td>Cresting, finials, snow guards, fasteners</td>
<td>✔</td>
</tr>
<tr>
<td>Penn Big Bed Slate Co., Inc. P.O. Box 184, Dept T B Slatington, PA 18080 (215) 767-4601</td>
<td>Roofing slate, structural state, slate tiles and roofing, slate slats and treads, fireplace facing.</td>
<td>Free</td>
<td>✔ ✔ ✔ ✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petersen Aluminium Corp. 955 Estates Ave., Dept T B Elk Grove, IL 60007 (800) 525-1960</td>
<td>Manufactures complete line of architectural roofing panels and trim. Panels available in 24 Kynar 550 colors on steel and 11 Kynar 550 colors on aluminum.</td>
<td>Free</td>
<td>✔ ✔ ✔ ✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTS Company 1805 Newton Ave., Dept T B San Diego, CA 92115 (619) 696-0102</td>
<td>Metal roofing tile, shingles, and panels. Steel or aluminum components.</td>
<td>Free</td>
<td>✔ ✔ ✔ ✔</td>
<td>Metal Spanish tile</td>
<td>✔</td>
</tr>
<tr>
<td>Renaissance Roofing, Inc. 2415 Charles St., Ste. 200 Rockford, IL 61108 (815) 397-8909</td>
<td>Buy and sell used and salvaged clay roof tiles and slate. Nationwide installation service available with the company's own crews.</td>
<td>Free Write in No. 371</td>
<td>✔ ✔ ✔ ✔</td>
<td>Slate substitute</td>
<td>✔</td>
</tr>
<tr>
<td>Richmond Precast Concrete Products P.O. Box 57099, Dept T B Richmond, VA 23234 (804) 275-8262</td>
<td>Manufactures flat concrete shingle tile in various colors and textures. Tiles can be customized to resemble wood, slate, and other materials.</td>
<td>Free Write in No. 634</td>
<td>✔ ✔ ✔ ✔</td>
<td></td>
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</tr>
<tr>
<td>Rogers &amp; Smith Roofing Co. 251-1/2 Grove Ave., Dept T B Verona, NJ 07044 (201) 744-0820</td>
<td>Roofing contractor experienced with traditional roofs, including slate and tile. Custom copper work, wood roofs, drainage systems, and complete exterior restoration.</td>
<td>Free Write in No. 746</td>
<td>✔ ✔ ✔ ✔ ✔ ✔ ✔</td>
<td>Sheet metal, skylights, snow guards, finials, gutters</td>
<td>✔</td>
</tr>
<tr>
<td>Roof Accessories Co. P.O. Box 419, Dept T B Medway, MA 02053 (800) 447-2141</td>
<td>Manufactures a range of drain systems, drain guards, strainers and related accessories for flat roof drainage.</td>
<td>Free</td>
<td>✔ ✔ ✔ ✔</td>
<td>Drain guards</td>
<td>✔</td>
</tr>
<tr>
<td>The Roof Center, Inc. 524 River Rd., Dept T B Bethesda, MD 20816 (301) 656-9251</td>
<td>Major East Coast roofing distributor with 7 locations carries complete inventory of roofing materials and fittings for all traditional roofing jobs.</td>
<td>Free</td>
<td>✔ ✔ ✔ ✔ ✔</td>
<td>Architectural sheet metal, skylights, drainage</td>
<td>✔</td>
</tr>
<tr>
<td>COMPANY</td>
<td>SPECIALTY</td>
<td>Literature</td>
<td>Natural Slate</td>
<td>Wood Slat/Blinds/Shades</td>
<td>Concrete Tile</td>
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<tr>
<td>Rosebud Roofing</td>
<td>Contractor with experience in slate roofs, both repairs and new roofs. General roofing repairs, flashing and application of new roofs.</td>
<td>Free Write in No. 415</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Slate International</td>
<td>Supplier of ASTM Grade 51 roofing slate in a wide range of sizes and colors. Both domestic and imported slate. Specializing in custom.</td>
<td>Free Write in No. 934</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>South Coast Shingle Co., Inc.</td>
<td>Carries complete line of roofing materials. Fancy butt cedar shingles, drainage systems, vents, and more.</td>
<td>Free</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Supradur Manufacturing Corp.</td>
<td>U.S.-manufactured asbestos-free fiber-cement slates, shakes, and shingles; 7 different styles through a network of 500+ distributors. Class A fire rating.</td>
<td>Free Write in No. 927</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Tegola Canadeana</td>
<td>Offers a fibreglass-reinforced asphalt shingle with a sheet of copper bonded to its top surface. Weathers naturally to a green patina.</td>
<td>Free</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Tile Roofs, Inc.</td>
<td>Supplier and installer of tile and slate roofs. Specialists in restoration of historic properties.</td>
<td>Free Write in No. 457</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>TileSearch</td>
<td>Has computerized directory of largest inventory of used clay tile for repairs, restorations, and additions.</td>
<td>Free Write in No. 696</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Tri-State Painting Co.</td>
<td>Complete steeplejacks technique and specialty rigging; unlimited heights and capabilities for any roof project. Serves entire East Coast.</td>
<td>Free</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Tropic Top</td>
<td>Manufactures and sells a metal thatch for buildings and structures that need to have a tropical look in any climate.</td>
<td>Free Write in No. 387</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Tuff-Kote Company, Inc.</td>
<td>Exterior patching and coating products with patented epoxy base. Designed to weatherproof and waterproof roofs, gutters, chimneys, skylights, flashings, and other problem areas.</td>
<td>Free Write in No. 101</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Vande Hey-Raleigh Mfg.</td>
<td>Extruded line of concrete roofing tile; 9 patterns; 20 standard colors and textures. Custom work. Also: Recycled slate, concrete, and clay tiles.</td>
<td>Free Write in No. 284</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Vermont Slate &amp; Copper Services</td>
<td>Traditional roofing services and consultation: Slate, metal, and clay tile roofs, sheet metal. Experienced on historical projects. Comprehensive video on how to install slate roofing.</td>
<td>Free Write in No. 721</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Tropic Structural Slate Co.</td>
<td>Color-integrated Vermont slate shingles; 3 colors; moisture and weather resistant. Standard, random, and graduated textural thicknesses and lengths.</td>
<td>Free Write in No. 76</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Wescosider Inc.</td>
<td>Wide variety of both natural and pressure-treated western red cedar roofing. TXX pressure-treated fire-retardant cedar shakes and shingles.</td>
<td>Free</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Yankee Steeplejacks</td>
<td>Complete steeplejacks service and specialty rigging. Unlimited heights and capabilities; simple waterproofing and painting to complete roof jobs.</td>
<td>Free Write in No. 348</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Williams &amp; Sons Slate &amp; Tile, Inc.</td>
<td>Quarrier and fabricator of natural blue/brown roofing slate for 35 years. Also distributes colored and imported roofing slate.</td>
<td>Free</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>The Wood Factory</td>
<td>Supplies a wide variety of Victorian-styled roof and gable trim, both stock and custom.</td>
<td>Free Write in No. 712</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Zaleski Snow Guards</td>
<td>Snow guard systems for new and old roofs hold snow in place on steep roofs. Integral engagement feature allows quick installation on slate, tile, and fiber-cement shingles without nails. All-copper construction.</td>
<td>Free Write in No. 349</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

TRADITIONAL BUILDING's Source List of HISTORIC ROOFING & SPECIALTIES

CSI# 07300

COMPILED BY CLEM LABINE

DIVISION 7 - MOISTURE PROTECTION

TRADITIONAL BUILDING

46 | MAY/JUNE 1993
Historic preservationists recognize that our nation's architectural treasures need to be protected from these unwanted guests. In many cases, "off the shelf" treatments, such as porcupine strips, sticky repellant gel, electrical shock systems, to name a few, do more damage to the fabric of the buildings, than the bird populations themselves.

At Bird Master we design our systems to specifically meet the needs of historic preservation.

Bird Master systems are:

- **Flexible** – We design and install our systems to blend in with the existing features of the building.
- **Discreet** – Once in place our systems are undetectable from ground level.
- **Non Corrosive** – Our stainless steel system can be color matched to any facade.
- **Reversible** – All permanent fittings are installed without penetration of stone or brick face.
- **100% Effective & Maintenance Free** – Installations are carried out using Bird Master’s own, highly skilled technicians, ensuring maximum care and effectiveness for each project. We endorse each installation with our five year guarantee of effectiveness.

Bird Master Bird Control Systems
11 Sixth Rd.
Woburn, MA 01801
Phone 1-800-562-2473    Fax 617-937-0958

**VERMONT ROOFING SLATE**
**MAJOR QUARRIER & PRODUCER**
**VERMONT PREMIUM NATURAL ROOFING SLATE & FLOORING**

Sea Green, Grassy Green, Mottled Purple, Heather Purple, VT Grey Black, Truthville Red

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P.O. Box 201, Dept. TB, Middle Granville, NY 12849
Tel: 518-642-2270    Fax: 518-642-1220

**YANKEE STEEPLEJACK COMPANY**
103 Assabet Avenue
Concord, Mass. 01742
(508) 369-9078

**Vermont Slate & Copper Services, Inc.**

Box 55-C, Gonyeau Rd., Milton, Vt. 05468
Contact: Brian or Larry Stearns
802-893-7703 / Fax 802-893-1143
Complete restoration of the roof of the Walme County Courthouse — including new Vermont slate, sheet metal, structural carpentry, masonry, and lightning protection — was carried out by workers from MIDLAND ENGINEERING. Write in No. 742.

The twisted-wire "Tyle-Tye" system from NEWPORT FASTENER secures all types of roofing tiles to any type of roof deck material and any slope. Write in No. 391.

These pantiles with an unusual eave detail are from NORTHERN ROOF TILE SALES. The firm also supplies a wide range of architectural clay products, including hand-formed cresting and chimney pots.

The elaborate ornamental metalwork for restoration of this 19th-century oriel window in Chicago was custom-fabricated by craftsmen from THE DURABLE SLATE CO. Write in No. 372.

Technical assistance was provided by TILE ROOFS, INC., for restoration of the tiles and copper on the roof of this large (16 bathroom!) Italianate villa on Jekyll Island, Ga. Write in No. 457.

TROPIC TOP is a lightweight metal shingle that installs easily, is fireproof, requires no maintenance, and provides the look of tropical thatch without the headaches. Write in No. 387.

Supra-Slate II is a fiber-cement slate for use in place of quarried stone. It carries a Class A fire rating and provides freeze-thaw protection. From SUPRADUR, the slate substitute is available in five integral colors and offers easy, storm-anchor-free installation. Write in No. 927.
For The Finest Traditional Roofs:
Hendricks Handmade Concrete Roof Tiles

Hendricks Tile is made in colors and textures selected for the individual job. Hand-finished to achieve a unique natural appearance, the tile weathers to a warm, mellow color that sets it apart from any other roofing product. The tile ages extremely well—even in freeze-thaw conditions.

First made in 1926, Hendricks Tile beautifies and protects fine homes up and down the East Coast—including Colonial Williamsburg. Call or write for full-color brochure.

Richmond Precast Concrete Products Co.
P.O. Box 37099, Dept. TB, Richmond, VA 23234 (804) 275-8262

WRITE IN NO. 634

TROPIC TOP™
ARTIFICIAL THATCH

At last, the demand has been met for a thatch that is virtually indestructible. Tropic Top™, a lightweight metal shingle, colorfast, 100% fireproof, installs as easily as ordinary roof shingles, and has the appearance of natural thatch without any of the disadvantages.

It is cost effective because you will never have to replace it. We are able to help with design and installation requirements for your particular roofing application.

Tropic Top™
2028-3 Eastbourne Way, Orlando, FL 32812
Phone and Fax: 407/273-0069

WRITE IN NO. 387

VERMONT ROOFING SLATE

All Colors and Thicknesses

Semi-Weathering
Gray and Green
Royal Purple
Vermont Black
Mottled Green and Purple
Red
Unfading Green
Clear Black
Mottled Gray-Black
Unfading Gray-Green
Semi-Weathering
Gray-Black

Full Architectural Service
Also, Slating Tools—Cutters, Rippers, Hammers, Hooks.

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68 Potter Ave., Box 248, Granville, NY 12832 • Tel.: 518-642-2530
Quarries: Wells, Poulney, Fair Haven, Vermont • Fax: 518-642-9313

WRITE IN NO. 713

BOSTON VALLEY Terra Cotta

Custom-Made Roof Tile

Our highly experienced ceramic engineers & technical R&D staff specialize in:
• Matching original pieces
• Moldmaking & ram pressing
• Restorations or new installations
• Duplicating color, texture & detail
• We do architectural terra cotta for restoration and new building

Write for our literature and client list.

BOSTON VALLEY TERRA COTTA
6860 S. Abbott Road
Orchard Park, NY 14127
716-649-7490

WRITE IN NO. 16

TRADITIONAL BUILDING

MAY/JUNE 1993 • 49
YANKEE STEEPLEJACKS did a total strip and re-roof of all the slate and copper on Trinity Church in Roslyn, N.Y.—Stanford White's last commissioned work. Architect on the restoration was Walter Sedovic, AIA. Write in No. 368

Among the new roof specialty products from M.J. MULLANE is this cast-bronze oak leaf snowguard bracket. Write in No. 56

The variegated slate for the roof of this new residence was chosen from the extensive color range available from EVERGREEN SLATE CO. Write in No. 713

NIXALITE strips repel birds ranging in size from sparrows to vultures, including the most common pests, pigeons, sea-gulls, swallows, and starlings. The low-visibility material can be bent to conform to irregular architectural ornament. Write in No. 37

A U.S. Coast Guard station on the Maine coast is shown getting a new slate roof installed by a crew from HARRASEEKET ROOFING & RESTORATION. Write in No. 223

Ornamental leader boxes are just one of many sheetmetal roofing specialties available from VERMONT SLATE & COPPER SERVICES. Write in No. 721

Slate roof on the picturesque High-Victorian Gothic tower at Glatfelter Hall, Gettysburg College, Gettysburg, PA, was furnished by SLATE INTERNATIONAL, INC. Write in No. 934

Ludowici Adds 25 Years To Its Roof Tile Warranty

Ludowici-Celadon, the largest manufacturer of premier clay roof tiles in the U.S., has announced it's now offering a 75-year limited warranty on all its clay roof tile products. Previously, the warranty was 50 years. In addition to lengthening the period, Ludowici also includes color fastness in the warranty. The company is believed to be unique in offering such a long warranty — and including durability of tile color in the coverage. Write in No. 278

Replacement tile for this Romanesque stone tower at Berea Temple, Baltimore, Md., was custom-produced by BOSTON VALLEY TERRA COTTA. Write in No. 16
Don't Replace, Restore...

Weathered windowsills, rusty gutters, rotten fascia boards, worn-out flashings, crumbling chimneys, cracked foundations, leaky basements, weathered siding, popping nail heads, cracking stucco, crumbly copings, splitting concrete, brittle shingles, leaking roofs, rotten decking, worn-out doors, weathered porches, posts and pillars...

with TUFF-KOTE and TUFFGLASS FABRIC

Tuff-kote's unique waterproofing system seals and weatherproofs your old house! Stays flexible! Lasts for years.

For BIG roof jobs, use Roof-kote! Roof-kote seals & waterproofs your roofs in 1 coat! Easy to apply! Withstands ponding water. Outlasts other roof coatings.

TUFF-KOTE CO., INC.

WRITE IN NO. 101

ROOFING SLATE

SLATE INTERNATIONAL, INC.

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National Women's Party Headquarters
Cesar Pelli & Associates

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- many colors
- domestic & imported

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SLATE INTERNATIONAL, INC.

WRITE IN NO. 954

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Sudbury, Vermont 05733
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(802) 247-0089 FAX

WRITE IN NO. 7

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- Durable
- Affordable

With a full range of profiles and colors, CCN offers a complete line of quality clay roof tiles ideal for restoration or new construction.

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1-800-551-4226

Complies with all current USA roofing standards.

8280 College Parkway, Suite 204, Fort Myers, Florida 33919
Fax: 813-481-8155

WRITE IN NO. 950
The high-seam profile design on this Tyler, Tex., golf resort roof incorporates an integral seam for panel engagement supplied by AEP-SPAN.

The forest green integral standing-seam roof on this Maryland home was supplied by PETERSEN ALUMINUM CORP.

The look of clay tile on this new residence was created with the help of lightweight "Stile" metal panels from METAL SALES MANUFACTURING CORP.

Drain protection system from ROOF ACCESSORIES CO. is designed to prevent leader blockage caused by stray debris on flat roofs.

This Roman clay roof tile is just one of a wide array of clay tile designs imported by CCN CLAY ROOF TILES. Write in No. 950

Steeplejacks from LANDMARK RIGGING restore the cupola and weathervane on the Sunderland, Mass., town hall. Write in No. 709

From original turn-of-the-century dies, W.F. NORMAN produces lightweight metal shingles in four styles: Spanish Tile, Mission Tile, and two versions of flat shingles. Write in No. 52

Wood-fiber cement shingles from AMERICAN CEMWOOD simulate the look of a wood roof and carry a Class A fire rating.

INSTANT ACCESS
TO PRODUCT LITERATURE FOR ROOFING SPECIALTIES
If your office qualified to receive the 1993 TRADITIONAL BUILDING CATALOG, you'll find prefilled product literature there for the following suppliers of Roofing & Specialties:

- BOSTON VALLEY TERRA COTTA
- HISTORICAL ARTS & CASTING
- MULLANE COPPER PRODUCTS
- NIXALITE
- W.F. NORMAN
- VANCE HEY-RALEIGH ROOFING
- ZALESKI SNOW GUARDS
Our work rises above the rest.

At Harraseeket Roofing we specialize in the design, repair and installation of slate, tile, and copper roof systems and their related architectural details. Because of our experience with churches and complete steeple restoration, our work truly does rise above all the rest.

We are not simply roofing contractors, we offer a complete structural assessment and consultation service, restoration research and maintain one of the largest inventories and matching services for slate and tile.

---

**Secrets of Roofing With Slate**

A slate roof, properly installed, will last 75 to 100 years. However, there aren't a lot of skilled slate installers around today.

To help overcome this problem, Larry and Brian Stearns of Vermont Slate & Copper Services have teamed with Evergreen Slate Co. to produce an excellent video showing the fine points of installing and repairing slate roofs. The video is aimed at roofing contractors who want to improve their slating skills — and architects who have to supervise roofers. But it could also be useful to building owners and property managers with good skills who want to undertake their own roof repairs.

The video goes into the fine points of using slaters' tools, cutting and shaping slates, laying out a roof, detecting faulty slates, proper setting of nails, flashing and slating valleys, handling roof penetrations, replacing missing slates — and many other tricks of the trade. Larry and Brian also show how to rig brackets for working safely on the roof while installing slates.

The 60-minute video is available for $100 (incl. shipping and handling). Send check or they'll ship COD.

**Vermont Slate & Copper Services, P.O. Box 430, Stowe, VT 05672. (802) 893-7703.**

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- Non-Destructive Control Methods
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- On-Site Supervision & Consulting Services
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**Rosebud Roofing Co.**

Slate & Copperwork
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Cambridge, Mo.
62130
617 876-8941

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**Rogers Roofing Co., Inc.**

Established 1918
2510 Grove Avenue / Verona, N.J. 07044
(201)744-0820 / 239-5001

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Weathervanes & Finials: Lofty Considerations

BY SHARON GARBE

Advances in modern meteorology offer more accurate means of forecasting than weathervanes. But many weathervanes still hold exalted community status atop the highest spires of a town. Many more are being added to the rooftop stratum by consumers looking for ways to personalize their property. Like vanity plates on vehicles, weathervanes offer a unique outlet for communicating the predilections of a building’s occupants. For corporations, they become another forum for advertising a company’s products or logo.

Travis Tuck, a metal sculptor who specializes in custom weathervanes, describes three levels of quality in dimensional weathervane production analogous to the differences between mass-produced prints, silkscreened paintings, and hand-hammered pieces. The first are machine-stamped into molds and retail from $100 to $150. The second level are hand-hammered into molds and range in price from $300 to $600, and finally there are the unique repousse pieces which are worked from behind on wooden forms with hammers and chisels, and typically cost between $2,500 to $6,000, while going as high as $15,000.

Travis Tucknotes that one of the most important things to consider when ordering a weathervane is how it will be mounted. The less expensive, mass-produced models may not include suitable mounting hardware.

- From the 38 craftpeople and suppliers contacted for this SourceList, the editors have chosen 20 companies in order to present our readers with a range of options for custom and stock weathervanes and finials of both traditional and non-traditional design.

WEATHERVANES & FINIALS PORTFOLIO

For more information on these companies, consult the SourceList on pg. 56.

This delicate glass, brass, and copper grapevine vane is one of the many styles produced by IVES WEATHERVANES.

Redwood finial on copper-clad cupola by ACCENT MILLWORKS, INC. Write in No. 603

This irresistible repousse beaver nibbling an aspen branch was created by TRAVIS TUCK, METAL SCULPTOR. Write in No. 394

Cast-aluminum weathervane in the shape of a sailing vessel, available from WHITEHALL PRODUCTS. Write in No. 398

Arrow weathervane with stained glass inserts by FISCHER ARTWORKS. The overall height is 40 in.; the skirt can be built to client’s particular roof pitch. Write in No. 172

MACQUARRIE & NICCUM hammered this custom sheep vane from 16 oz. copper. The design was taken from a photograph supplied by the client. Write in No. 654

DENNINGER CUPOLAS & WEATHER VANES produced this custom weathervane for the Howard Hughes Medical Institute in Chevy Chase, MD. The vane depicts the double helix of a DNA molecule intertwined with the hull of the Spruce Goose. Write in No. 730

Besides producing vanes and finials, SALT & CHESTNUT WEATHERVANES produces this unique product for covering roof vent pipes. The company offers a few different lighthouse designs to choose from. Write in No. 659

For more information on these companies, consult the SourceList on pg. 56.
We offer unique handcrafted weather vanes, roof spires, lightning rods, and more...

WRITE IN NO. 172

FISHER ARTWORKS
6532 S. Windemere
Littleton, CO 80120
(303) 798-4541
Catalog $25

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Tel: (717) 945-1229

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Phone (203) 993-6775 Fax (203) 993-6927

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WRITE IN NO. 393

CUPOLAS AND WEATHER VANES

WRITE IN NO. 388

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(914) 889-8390
Fax (914) 471-8809

WRITE IN NO. 159

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In 1863, a young iron moulder named James McKinney started his own business of manufacturing iron elements for building construction. He began by displaying samples of roof crests and cupolas on a horse-drawn cart, but became so successful that in less than 10 years he had a brand new foundry built in Albany, New York.

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West Jordan, UT 84084
(801) 569-2300
FAX (801) 569-2923

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FREE COLOR CATALOG
1-800-346-7678 ext. 953
GOOD DIRECTIONS, INC.
24 Ambrose Rd., Dept. 953, Stamford, CT 06902

WRITE IN NO. 725

FREE REFUNDABLE DIRECTIONS INC.

WRITE IN NO. 115

Note: This is an advertisement. Do not reply.
<table>
<thead>
<tr>
<th>COMPANY</th>
<th>SPECIALTY</th>
<th>Literature</th>
<th>WEATHERVANES</th>
<th>Finials</th>
<th>Cresting</th>
<th>Other Roof Ornaments</th>
<th>Materials</th>
<th>% Custom</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Carolina Craftsman</td>
<td>Manufacturer/Supplier of replacement house and furniture hardware specializing in authentic design elements.</td>
<td>Free brochure; catalog $5.</td>
<td>Full-Bodied</td>
<td>Silhouette</td>
<td>Lightning rods &amp; custom finials</td>
<td>Cast bronze, sheet brass</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>Accent Millworks, Inc.</td>
<td>Supplies stock weather vanes in sizes from 24 in. to 60 in. Most have a black baked enamel finish with pewter or gold/bronze color options. Also manufactures redwood cupolas and redwood finials.</td>
<td>Free Write in No. 401</td>
<td>Custom</td>
<td>Free Write in No. 749</td>
<td>Custom, spires, pinstripes, lightning rods, blowers, urns, spires, and chimes</td>
<td>Cast aluminum</td>
<td>2%</td>
<td></td>
</tr>
<tr>
<td>Adornments for Architecture</td>
<td>Custom foundry and fabrication shop for pattern and mold-making specializing in architectural products.</td>
<td>Free Write in No. 569</td>
<td>Custom</td>
<td>Free Write in No. 393</td>
<td>Custom, cupolas, finials, spires</td>
<td>Cast aluminum</td>
<td>80%</td>
<td></td>
</tr>
<tr>
<td>Architectural Iron Co.</td>
<td>Company specializes in matching roof cresting, finials, and other period products. Company also carries a number of stock designs with customized mounting brackets for any roof condition.</td>
<td>Free</td>
<td>Custom</td>
<td>Over 77 CopperCraft weather vane designs — most are full-bodied — and more than 140 Whitehall aluminum styles, both full-bodied and silhouetted.</td>
<td>Free Write in No. 263</td>
<td>Custom copper, copper caps, finials, spires</td>
<td>Sheet copper, cast aluminum, brass, stainless steel, wood</td>
<td>95%</td>
</tr>
<tr>
<td>Colonial Cupolas, Inc.</td>
<td>Over 140 Whitehall aluminum styles, both full-bodied and silhouetted.</td>
<td>Free Write in No. 393</td>
<td>Custom</td>
<td>Free Write in No. 729</td>
<td>Sheet copper</td>
<td>Sheet copper, cast aluminum</td>
<td>10%</td>
<td></td>
</tr>
<tr>
<td>Conant Custom Brass</td>
<td>Custom fabricated decorative metalwork to architects and designers specifications. No stock styles offered. Finishes include: Antique, polished, verdigris, and gold leaf.</td>
<td>Free Write in No. 505</td>
<td>Full-bodied, twilled-bodied, and silhouetted weather vanes in stock designs. Custom work available; final stock by order only.</td>
<td>Free Write in No. 263</td>
<td>Custom copper, copper caps, finials, spires</td>
<td>Cast aluminum</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>The Copper House</td>
<td>Custom roof spires, weather vanes, lightning rods, and finials. Specializing in Victorian roof accents.</td>
<td>Free Write in No. 172</td>
<td>Custom</td>
<td>Free brochure Write in No. 730, catalog $4</td>
<td>Lightning rods, custom caps, copper caps</td>
<td>Cast bronze, sheet copper, pine</td>
<td>95%</td>
<td></td>
</tr>
<tr>
<td>Crosswinds Gallery</td>
<td>Company offers weather vanes, caps, and finials handcrafted from architectural elements, replicated from antique originals or available from its extensive catalog of wrought-iron, silhouetted, and full-bodied designs.</td>
<td>Free Write in No. 400</td>
<td>Custom</td>
<td>Free Write in No. 400</td>
<td>Cupolas</td>
<td>Sheet copper</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>Denninger Cupolas &amp; Weather Vanes</td>
<td>Custom roof spires, weather vanes, lightning rods, and finials. Specializing in Victorian roof accents.</td>
<td>Free Write in No. 121</td>
<td>Custom</td>
<td>Free Write in No. 121</td>
<td>Custom</td>
<td>Cast aluminum, bronze, and iron</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>Fischer Artworks</td>
<td>Free Write in No. 172</td>
<td>Custom</td>
<td>Free Write in No. 172</td>
<td>Custom</td>
<td>Custom</td>
<td>Sheet copper, cast aluminum, brass, stainless steel, wood</td>
<td>60%</td>
<td></td>
</tr>
<tr>
<td>Good Directions</td>
<td>Company distributes a wide variety of full-bodied copper weather vanes; antique reproductions and original designs. Also, copper roofed cupolas in stock, and custom silhouetted vane. Builder/architect discounts available.</td>
<td>Free Write in No. 400</td>
<td>Custom</td>
<td>Free Write in No. 400</td>
<td>Cupolas</td>
<td>Sheet copper</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>Historical Arts &amp; Casting, Inc.</td>
<td>Free Write in No. 400</td>
<td>Custom</td>
<td>Free Write in No. 400</td>
<td>Custom</td>
<td>Custom</td>
<td>Cast aluminum, bronze, and iron</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>Ives Weathervanes</td>
<td>Free Write in No. 505</td>
<td>Custom</td>
<td>Free Write in No. 505</td>
<td>Custom</td>
<td>Custom</td>
<td>Cast aluminum, bronze, and iron</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>Kennedy Lynch &amp; Sons</td>
<td>Free Write in No. 654</td>
<td>Custom</td>
<td>Free Write in No. 654</td>
<td>Custom</td>
<td>Custom</td>
<td>Sheet copper</td>
<td>30%</td>
<td></td>
</tr>
<tr>
<td>MacQuarie &amp; Nicum Constructions</td>
<td>Hand-pounded full-bodied copper weather vanes in designs ranging from traditional styles to personalized fantasies.</td>
<td>Free Write in No. 505</td>
<td>Custom</td>
<td>Free Write in No. 505</td>
<td>Custom</td>
<td>Sheet copper</td>
<td>30%</td>
<td></td>
</tr>
<tr>
<td>Salt &amp; Chestnut</td>
<td>This company has hundreds of silhouette and silhouetted weather vane designs to choose from. It also produces custom work. New to the market are authentic replicas of lighthouses to cover roof vent pipes.</td>
<td>Free Write in No. 659</td>
<td>Custom</td>
<td>Free Write in No. 659</td>
<td>Roof vent covers</td>
<td>Sheet copper</td>
<td>30%</td>
<td></td>
</tr>
<tr>
<td>Sign of the Crab</td>
<td>A variety of traditional copper weather vanes, most available with a weathered or polished finish. Company offers two styles of roof mounts.</td>
<td>Free Write in No. 659</td>
<td>Custom</td>
<td>Free Write in No. 659</td>
<td>Roof vent covers</td>
<td>Sheet copper</td>
<td>30%</td>
<td></td>
</tr>
<tr>
<td>Travis Tuck, Metal Sculptor</td>
<td>Specializes in one-of-a-kind full and 3/4 bodied copper weather vane designs of anything. All work is done without molds, using the repousse method. 23K gold leaf optional.</td>
<td>Free Write in No. 394</td>
<td>Custom</td>
<td>Free Write in No. 394</td>
<td>Custom</td>
<td>Sheet copper</td>
<td>30%</td>
<td></td>
</tr>
<tr>
<td>West Coast Weather Vanes</td>
<td>This company produces limited edition hand-crafted weather vanes and finials. Materials such as brass and glass are often combined with copper. Retail prices start at $395, complete with harness.</td>
<td>Free Write in No. 388</td>
<td>Custom</td>
<td>Free Write in No. 388</td>
<td>Custom</td>
<td>Copper and brass</td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td>Whitchall Products, Inc.</td>
<td>Company offers cast aluminum weather vanes in sizes ranging from 24 in. to 60 in., tall with a variety of ornamentation and finishes.</td>
<td>Free Write in No. 398</td>
<td>Custom</td>
<td>Free Write in No. 398</td>
<td>Custom</td>
<td>Cast aluminum</td>
<td>0%</td>
<td></td>
</tr>
</tbody>
</table>
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The system is suitable for such applications as museums, historic properties, offices, stores, restaurants, and theaters. For more details, contact: Building Conservation International, 1624 Arch St., Philadelphia, PA 19103. Telephone (215) 567-0547, FAX (215) 564-4685. Write in No. 802.
If You Mailed This Card From Santa Ana, Calif., Please Don't Blame Us!

We provide lots of ways for you to get product information from TRADITIONAL BUILDING. But we can't do much with requests like this one.

BY MAGNOLIA C. SHEPHERD, Data Processing Supervisor

About once a month, we get a call from one of our subscribers saying that he or she sent in a Product Information Card, and then never heard anything.

When this happens, I personally look into our files to see if we processed the request. (We do all our data processing in-house, so this is a relatively simple procedure.) In 9 out of 10 of these cases, there is no record of ever having processed a card from the subscriber. This means either:

(1) The original card went astray in the mail, or
(2) The requester was one of those folks who carefully writes in the numbers of the brochures he or she wants — and then neglects to give us a name and address. In the case of the card shown right, for example, all we can tell from the postmark is that it was mailed from Santa Ana, Calif., on February 19.

So, at the risk of belaboring the obvious, if the product literature doesn't arrive when you expect it, please consider some of the above possibilities before deciding that we are utterly disorganized.

Four Ways To Get Information

We provide a number of ways to get additional information about products or services that appear in TRADITIONAL BUILDING. Because a number of questions about product literature have arisen in the past few months, the Editors kindly agreed to let me have some space to explain the operation of our product information system.

We have four ways you can get more detail about historical products described in our pages:

Direct Phone: If you want fast action, the best thing is to call companies directly. In every Source List and product story, the Editors always give a phone number.

Direct Fax: Another rapid contact mode is the Fax Form at the back of every issue (page 69 in this issue). We provide the Fax numbers of the leading historical product suppliers on top of the Form. In addition, the Fax numbers of many other suppliers are available right in their ads. Using the Fax Form offers several advantages: (1) It's a time-saver. You can Xerox and fill out the form ONCE, and then FAX it to as many companies as are relevant to your need; (2) You can FAX at any hour of the day or night; you don't have to waste time on the phone during business hours. (In fact, evenings and weekends are the best time to avoid busy signals on FAX lines.) (3) Your request gets rapid attention from the supplier.

Product Information Card: If you're not in a major hurry, the Product Information Card in each issue is the simplest and most economical way to request more information. The only catch: Postal service, computer processing, and supplier fulfillment may take 4 to 6 weeks from the time you drop the postcard in the mail until the requested literature arrives on your desktop.

The Annual CATALOG. The CATALOG puts at your fingertips 740 pages of pre-filed and cross-indexed product information from the leading suppliers of historical products. The editors make the annual CATALOG available on a professional courtesy basis to qualifying business locations. (Qualifying locations pay $12.50 shipping and handling charges.) Most offices keep the TRADITIONAL BUILDING CATALOG on their reference shelf right next to Sweet's... and consult the CATALOG first when a question arises about historical products.

I recently supervised the shipment of the 1.200 1993 Catalogs to this year's qualifying locations. We build the list of qualified recipients via a detailed survey of our paid subscribers that we send out in January of each year. If you didn't get a copy of the 1993 CATALOG, and would like to be considered for the 1994 edition, you'll receive a qualifying application in January of next year:

(1) You work in an office that does architecture, construction/contracting, or interior design; and (2) You're on our list of paid subscribers as of January 1.

How The Product Information Card Works

I thought it might be helpful to describe what happens to the Product Information Card after you drop it in the mail, so that you'll better appreciate the time constraints in the system.

Incoming Postcards are gathered into batches, and the names, addresses, and product information numbers are typed into the computer system. — Every 10 days, we do a processing. The system prints out pressure-sensitive mailing labels for every piece of literature requested, grouped according to supplier.

— The long string of labels is broken apart in our mail room, and each batch is sent to the appropriate manufacturer.

— When the batch of mailing labels is received by the supplier, the label is affixed to a mailing envelope and the brochure is sent on its way to you.

It's a simple, inexpensive system for the reader — but you can see why it takes a while for the literature to arrive.

Other Reasons Literature May Not Arrive

Besides the no-name cards mentioned above, there are a couple of other common problems that will prevent your getting the product literature you requested:

(1) ILLEGIBLE HANDWRITING — It seems obvious, but a surprising number of cards arrive with the name and/or address partially illegible. We make the best guesses we can — but sometimes our best guesses aren't good enough to get the mail delivered.

(2) EXPIRED POSTCARDS — The harsh realities of postage and processing costs require us to put an expiration date on every postcard, after which the product information numbers from that issue are expunged from our computer system. So it's physically impossible to process expired cards.

If you come across an old issue... and there are product brochures you want to send for... instead of using the Product Information Card, just consult the Advertiser Index at the front of the issue. You'll find the page numbers for all the companies in that issue which had been assigned Reader Service numbers. Just write, call, or FAX those companies directly.

I hope these few comments make TRADITIONAL BUILDING even easier for you to use!

FREE PRODUCT INFORMATION

Use this card to get catalogs of historical products in this issue. (Literature is free to building professionals.) We'll forward your request to the respective manufacturers. Allow 4-6 weeks for literature to arrive. THIS FORM EXPIRES APRIL 15, 1993

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For Free Product Information, FILL IN THE Appropriate Numbers.

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321 627 275
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THE ROOFS OF JEKYLL ISLAND

This issue features a listing of the leading suppliers of historic roofing materials. Here's the story of a property manager who has a use for almost ALL of those roofing products.

BY MARYANN ONDOVSKI

Jekyll Island, located midway between Savannah, Ga., and Jacksonville, Fla., is a virtual showcase of residential architectural styles, running chronologically from 1898 to 2018. And according to the Superintendent of Historic Preservation for Jekyll Island Museum (a division of the Jekyll Island Authority), F. Warren Murphey, the island is also a showcase of maintenance headaches.

Excedrin Headache #1 is roots, which gnaw voraciously on the island's restoration and maintenance budget. The majority of roofs on the U.S.'s South Atlantic coast are covered today in standard fiberglass shingles. They're cheap and easy to install, but hardly suitable for the historic structures that make up the Jekyll Island Museum.

On the island's 33 historic structures, Murphey says he's counted 25 different roof materials and combinations, although they break down into three main categories: Wood shingles, ceramic tile, and metal. All three materials are costly to install and maintain — and the wood is relatively short-lived. Yet materials like Tidewater red cypress shingles, Ludowici ceramic tiles, and terne metal are critical to the historic integrity of these buildings. "This is a museum and we're trying to duplicate what was there originally," says Murphey. "If it were my own house, I'd probably make a different decision."

The expensive cypress wood shingles have become Murphey's own bête noire, because some roof areas have developed decay in less than a decade. "I'm at the point where I'm willing to look at other alternatives," he sighs. "I'm visiting other historic sites and even considering the possibility of switching to concrete shingles. They can provide the same approximate appearance...but then of course we have the question of weight. " Up to this point, however, Murphey's belief that the texture of cypress is critical to the historic look has

resigned him to a more expensive solution for the sake of accuracy of the museum experience. "Museums are in the truth-telling business," he says.

HOW JEKYLL ISLAND CAME INTO BEING

The 240-acre island 60 miles south of Savannah was developed as a private hunting preserve after the Civil War by some of the nation's wealthiest industrialists, with names like Astor, Vanderbilt, Rockefeller, Baker, Morgan, Pulitzer, Teller, Goodyear, and Crane. In its heyday, it was said that 1/6th of the world's wealth could be found sitting around the dining table on Jekyll Island.

The club, limited to 100 members, retained architect Charles Alexander to design the Club House. Members then built their own "cottages," using such noted architects as Carrere & Hastings, Charles Alling Gifford, and David Adler.

Although Jekyll Island can now be reached by a seven-mile causeway from Highway 17, it was originally accessible only by boat, affording the millionaires the privacy they sought.

Compared to the palatial cottages in Newport, the Jekyll Island versions were small — averaging 7,000 square feet — and quite rustic in appearance. Paint analysis shows a partiality to natural browns and greens — quite appropriate for a hunting preserve, full of small game, boar and deer, as well as pheasants and quail bred in the off-season.

Alas, after World War II, the once-fashionable resort fell into a steep decline and in 1947, the state of Georgia intervened and bought the whole island for a pittance. The state was primarily interested in the island as a public park, given its beaches and golf courses and so they ignored the buildings, which inevitably began to decay.

Luckily, in the 1960's, the state began to take an interest in the structures. The Jekyll Island Authority courageously undertook a massive preservation project financed out of its own pocket. "They hired a retired civil engineer named Roger Beedle, who worked miracles. We have his journals and drawings. He did an admirable job — and remember, this was the early '60s, when Charleston was fighting its early preservation battles."

A private consortium spent $20 million rehabbing the old Club House into a modern hotel, which is now operated by Raddison. The hotel became the impetus for a tourist industry that now includes 7 hotels, 350 private residences,

Currently under restoration, the Struthers/Macy Cottage, c. 1896, will require 62 squares of Tidewater red cypress shingles plus another 8.5 squares of terne-coated stainless steel.

66 • MAY/JUNE 1993
tennis courts, marinas, picnic areas, and 7 miles of beach.

The island’s main source of revenue is from golfers, although surveys have shown the primary draw is the beach, followed by the historic district. Several buildings, including Faith Chapel, its signed Armstrong and Tiffany windows, have been restored, and tram tours are given of the historic area.

UP ON THE ROOF

But the buildings remain a continual challenge. Murphy’s annual budget averages about $320,000 for both maintenance and restoration. And, of course, there are those ongoing roof problems. He’s already put new cypress shingles on the Rockefeller, DuBignon, and Mistletoe cottages. “We’ve installed about 220 square feet of cypress in the past 9 years, but in some areas the insects and rot are taking their toll ahead of schedule.”

The relatively short life of the expensive handmade cypress shingles ($80 per square installed, including felt, flashing, etc.) is a major drain on a budget that still has to deal with curatorial concerns like air filtration, ultraviolet screening, lead abatement, and low-VOC paint.

Among other things, Murphy has had to re-engineer the way the cypress shingles are installed. “You must have good air flow under the shingles so they can dry after a rain. The original roof system was fine. There was no sheathing; furring was applied to the rafters and shingles were nailed to the furring. But during the ’60s, they filled in the spaces between the furring strips to create solid decking. But this restricted air flow.”

Murphy is now re-creating the original system. “We’re putting waterproof members with new furring on top of the decking to re-establish good airflow. The problem is that this changes the roof height, which is especially noticeable at the dormer windows. But if you don’t have good airflow, decay is sure to follow.”

Then, of course, wood roofs raise the subject of fire protection, a serious concern on an island with a lot of lightning. Murphy’s approach has been to use a topical application of a fire retardant every few years, pointing out that in a serious fire no roof is safe. “We’re concerned with sparks flying off a palm tree that’s been struck by lightning. The trick is making the roof retardant enough to give you 35 seconds or a spark to die.” He also notes that most roofs are below the canopy of trees, and taller structures — like the chapel — have lightning protection.

An additional problem is the low pitch of many of the roofs. “Some have a pitch of only 3½-12’ per foot, which is marginal at best. The steeper the pitch, the better, because the wood shingles shed water faster. Unfortunately, in this particular situation, the builders didn’t think about roof longevity. They were just after a certain look; the structures were not intended to be heirlooms.”

JEKYLL ISLAND’S METAL ROOFS

Terra cotta roofs are even more expensive than cypress — and Jekyll Island has its share of those as well. Murphy estimates a terra cotta roof runs him and costs $1,200 a square. Snarky David Hugo has shown, a high wind will take them right off. It doesn’t matter how it’s fastened or how good the code compliance is. A 100 m.p.h. wind can rip off a metal roof like the lid off a tin can.

Unlike the relatively short-lived cypress shingles, terra cotta roofs are known for their durability. But they present other problems. Metal expands and contracts in the southern heat more than adjacent walls and gutters, creating joint problems. Also, many of the metal roofs are flat, causing drainage difficulties. “Even if the original design called for a perfectly flat roof, I will alter that to create a slight pitch, even if it’s just 1½4/foot, he says. “There is no way to justify a dead flat roof; it will leak no matter what miracle product you put up there.”

Murphy uses tere-cote stained in all areas that originally had terra applications. This greatly increases longevity and reduces maintenance, but increases the difficulty of soldering. “Soldering using a hand iron is not part of a standard roofer’s repertoire anymore. It may be a fading art, like plastering and fine brick work. Soldering stainless, even coated with terra, he observes "is a little trickier than plain terra metal."
What Denver's ballpark might have been: Orioles Park at Camden Yards, also by HOK Sport, opened April 1992, imitates historic stadiums with its grass field and rooflessness. The former B&O Warehouse forms the right field backdrop and contrasts with the skyscrapers of downtown Baltimore.

What will happen to the gas station on the site: It will be moved a few blocks, its white-paint-encrusted brick skin and neoclassical ornament will be scrubbed, its bays filled with windowpanes, and its gasoline offerings replaced by baseball-game tickets. (Drawing courtesy HOK Sport)
How It All Began

Embraced by being located in the nation's only major-league-baseball-city, Denver, Colorado passed a 1% baseball tax in 1990 to support stadium construction. A major grant from Coors Field and a matching gift from the National Trust for Historic Preservation spurred the project, and under the auspices of the cumbersomely-named Denver Metropolitan Major League Baseball Stadium Authority, HOK developed the design for an extremely sensitive site: North Downtown, a slowly gentrifying district. Spared urban renewal by just a few blocks, the district contains a cheerful mixture of design offices, brew pubs, loft homes, and smaller manufacturers and wholesalers with names like Denver Barrel & Drum and Bab C Tire. The site was the former site of the recent downtown's free ITRADMINISTRATION BUILDING.

HOK's original plans called for a somewhat frou-frou'd postmodern stadium skin, outright destruction of all buildings on site, and few street-filling storefronts. Denver citizens objected to the design's anti-neighborhood stance; committees formed; and HOK flexibly changed them (as befits a firm responsible for both the forthcoming Comiskey Park in Chicago and the Camden Yards, which is walled by sidewalk-pleasing see-through archways and by an eight-story 1965 railroad warehouse along one full facade). The city, too, responded fairly graciously to public concerns, imposing a neighborhood-wide demolition moratorium (which unfortunately was allowed to lapse for two weeks last fall, leading to four more lost buildings and lessened chances for a National Register Historic District listing; the moratorium lapses again this May.)

How Compromises Ensued

Working with the new committees of neighborhood citizens, and other activists, HOK finally settled on a scheme that tries to please everyone. The site is flat brick with some corbeling and a bit of tan stone trim, to suit the low-key neighbors. It abuts the sidewalk on two sides (the other sides face rail yards); sidewalk features store fronts containing small, curvilinear attractions (baseball will only be played 81 days annually) as gift shop and a rather pretentious Rockies museum. And the skin reaches only 40 feet tall on its street sides, thanks to its billy site, with a faceted tier of bleachers filled with a fancy fronted and rather greenish seats visible just above the skin's top ridge.

Despite this quaint vision, nine vintage warehouses were lost, one of them graced with elegant neoclassical medallions and garlands. (Known as the Purvis Building, it was a facelifted fire code and disabled-access problems — nor could it build be

urban and pleasantly佟tive toward the most vernacular of vernacular. "It's a compromise, and sometimes compromises do look like jackalopes," says Dana Crawford, the impassioned local developer responsible for saving such stellar Vic-

toriana in Denver as Larimer Square. 

What All This Bodes

Some Denver observers fear that Coors Field could set back the preservation and traditionally-minded new-construction movements by years. The irreverent incorporation of the Student Movers bulk, says local landscape architect William Wenk, was "almost an insult." Landscape ar-
tist Gibbon also criticizes the Student Movers-preservation process as "sort of like, here, we'll save something, so they saved the worst-looking one." Don Eber, former co-director of Denver's Parks and Recreation Dept, calls Coors Field "part of our throwaway society," since an all-concrete modernist stadium on Denver's outskirts remains barely utilized (and offers acres of on-site parking, unlike North Denver's soon-to-bepossibly-overwhelmed streets).

Yet there's an undeniable chance that North Downtown could benefit from proximity to a ball park. Neigh-

neighborhood activist Karley Seidell regrets the nine structures lost ("they could have been a beautiful forecast to the stadium," he sighs), yet he happily reports a small frenzy of renovation activity by owners enthused about selling refreshments, choochoos, or even housing to basketball fans. "This has been absolutely forgotten Den-

ver, suddenly unexplored," he exults. And will it be worth the sacrifice? Will more good than harm come to North Downtown? Kathleen Brooker, head of Historic Denver, muses, "There are certainly things I would have liked to have seen done differently, but overall there's such a positive feeling about having baseball downtown, making it an integral part of downtown — let's call my outlook, "guarded optimism."
I copper rooting, and stalled. Hifitop$eCo. in projects. Evergreen Slate Co. FRP. Large brochure. Also resolves and technical consulting. Free brochure.

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Lighting fixtures of many styles, sizes, and shapes are produced by Ball & Ball—the one constant source for quality historical products since 1932. Major restorations from Independence Hall in Philadelphia to Iolani Palace in Hawaii have called on our production and finishing experience to create the proper historic lighting fixtures for them. In 1989, we purchased the drawings and tooling of The Steinmetz Company—producers of unusually fine detailed commercial-sized lighting fixtures in the early 20th century. This was a natural expansion for our craftsmen and expertise. All fixtures shown were made in our own plant. We welcome the opportunity to quote standard or special designs.

Frank Lloyd Wright designed this cast iron fixture for his 1905 renovation of The Rookery Building in Chicago. Ball & Ball was asked to reproduce the 10 original units—and supply 6 new ones to match. The pattern in the fixture matches the rest of the iron lace in the building. A 10 square feet cast iron, brass-plated canopy trim 86 cast brass chains, 6 ft. long, supporting a 30 square foot main body, which in turn holds 4 corner globes and a central globe over and under the main body.

Early 20th century hallway lighting by The Steinmetz Co. for the U.S. Capitol, Washington, D.C. Ball & Ball had all the original drawings on hand to produce two additional lights to match the originals. (This fixture is just one of many that Steinmetz produced for government buildings in Washington.) Main body is spun brass, 32" dia., fitted to cast brass border supporting large wax-cast lion heads that hold 6 electrified arms. Overall dia. 5 ft. Exact copies, larger, or smaller versions of this lamp are available on special order.

Argand Lamp c. 1800, reproduced for a restoration in Barbados. The fixture, 20" in diameter and 46" high, is cast, sheet, and spun brass with hand-blow glass. As pictured, the fixture has been adapted to accommodate 2 electric candles.

Lighting fixture made by The Steinmetz Co. to hang in a lower level hall of the U.S. Capitol. Made of cast brass, spun brass, and fluted brass tubing. It features etched glass on all six sides and bottom. It is 22" high to the column top, 12" across. Center of the bottom is hinged for bulb changing.

Wall sconce, c. 1835, cast brass with hand-blow glass. Fixture is 28" high and 14" wide.

Two-tier chandelier, custom-made to complement an original 18th-century 3-tier fixture in a Pennsylvania church. The unit as shown is 48" high, 56" wide, and has 12 arms with hand-blow glass.

Custom lighting fixture made to client specifications with hand-forged iron body (rather than the brass tubing seen on most 19th-century reproductions). Fixture is 5 ft. wide, 3 ft. high, with 3 12" white glass shades and spun brass fonts.

Early 20th century turned, spun, and sheet brass lantern with shatterproof plastic. The "Union Jack" decoration can be changed, duplicated at the bottom, or made with three bands. Sizes: Large—28" O.D., 52" high; Medium—16" O.D., 28" high; Small—9" O.D., 19" high. Small unit could use glass for residential installations.

Lighting Fixture & Hardware Catalogs

Our new Lighting Fixture Catalog will soon be off the press. Write, call, or FAX for a free copy. Or Write In No. 766 on the Reader Service Card. Ball & Ball is also the leading source of historically accurate house and furniture hardware, door locks, fireplace equipment, decorative and household accessories—both reproduction and antique. Repairs, copies, or polishing of your precious antiques are quoted on receipt of sample. Our FREE Mini-Catalog provides an introduction to a full range of products and services. (Write in No. 293 on the Reader Service Form.) Or for $3 we'll send you (via UPS) our handsome 108 pg. product catalog.

But even the catalog doesn't show all 2,000 of our hardware products. If you're looking for something rare or unusual, call or FAX us.