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SAMPLE

## **A Modest House** for the Hamptons

Efficient design and a simple footprint temper the dramatic space and architectural detailing of this eastern Long Island home

by Duo Dickinson

When the young Manhatan couple first approached me about designing a home, they were a classic urban dyalf city-weap? lavyess reclising explicit on proceedings are given from their attention of un professional lives. They had managed to find a relationation lives. They had managed to find a relationation lives. They had managed to find a relationation lives in the project. A near-death experience brings life to the project. The six or seven blids that came in twelvely incorporate lot in chief casearin Long list-land and were eager to build a vacation home that included forly speace, rathermally detailing and a proudy vertical presence. Like many young couples, however, their dreatens were bigger than their budget, and our prefiniting which is project was put on the back burner white they could afford. Puttnately months in the project was put on the back burner while the couple alterode to the limited date sake of salsing a family. These intermetinated design and thisting carefully about maximizing a limited budget.

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The revised plans reflected the original selected to the conditional properties and the project of the proving large and the country of the country of the proving large and the country of the proving large and the country of the proving a family, as well as the country of the proving a family as well as a few original proving a family significant change order, this basement space was the material cost ones one concrete.

Although eventually involving a family significant change order, this basement space was the material cost of the proving a family significant change order,

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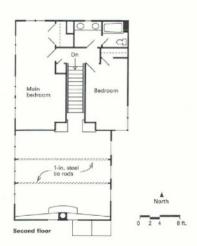
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the children. Two relatively large windows set within a large window well and a legitimate stainway (vs. the dimension-lumber variety) were added. Also, we located ductwock and other mechanical hookups so that this space could be easily finished at a later date.

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Planning for efficient framing and finishing—The ord form is a steep, symmetrical gable (photop, 98). The 80° angle formed at the ridge by the 120-12 glother only is a marginal farming simplification, but everything belips. Two-byven hallows are unknimed at their table and eatend a full 2 ft. from the plate, creating a broad overhang than protects the sideways and simplifiest trimming out. Symbolic stricco on the undenside trimming out. Symbolic stricco on the undenside of the eaves and in the gables is too the finished starface and the "paint" for these areas, Not hall of the server of t





A simple floor plan. Space for another bedroom on the second floor was gained by cantilevering a dormer on the east side of the house. The guest bath on the main floor doubles as a powder room when the homeowners are entertaining.

pace, we needed extra space in the constricted econd floor. We simply cantilevered the floor raming to accept a straight extension of the pool. This feature made room for a larger bathoom and bedroom easily accommodating the cupie's two floor.

oom and bedroom easily accommodating the ouple's two boys. As you might predict, head height decreases rhenever a roof extends down from a normal late height. In this case, a skylight provides light relief at one comer of the bedroom, and he other comer of this extended bay terminates a domer (photo p. 96). Although this domer ras a relatively costly Item, It's a nice focal oint, and its roof directs water and snow away om the side door beneath it.

oint, and its root directs water and snow away om the side door beneath it. The second way we defeated predictability as with the creative use of windows. Although tere are a great many windows for a house of its size, they are all stock sizes, which helped to duce costs. What customizes these windows re two simple design tools. The first involves anging windows together either by factory fulling or by setting them directly to 2x framing immed out with continuous 54 flast stock, thesis insully linking them (bottom photo, p. 101).

The second method of customization is the use of custom munifies, or divided lites. These subdivisions between the insulating glass are more expensive than snap in grilles, but the patterns they create are worth the added cost. In this case, cruciform patterns visually link the windows and doors.

Designing a tall space—Obviously, the most dramatic aspect of the home is the living and dining area (photo p. 97; sidebar p. 100). With tall white walls and oversized glazing, there is a sense of entering a space that is not explicitly residential in character, but not civic or institutional, either.

The entryway, rather than becoming a progressively enclosing sequence, is really a quick transition from large-scale outside to large-scale inside. The cantilevered gable over the front door provides shelter from rain and snow.

A tall space such as this one can feel like a big box. But the stairway and large columns help to focus attention at one end of the room, and the smaller open spaces for the kitchen and hallway on the sides of the stairwell lead the eye into other places (photo facing page). Plenty of tall windows open the room to the outdoors, and the hearth and the exposed chinney chase balance the stairway on the other side of the room. By simplifying the shape of the prefabricated fireplace, we saved considerably on framing and trimming and were able to provide two built-in plywoodsided storage boxes within the firebox enclosure (photo p. \$17).

## Columns are structural and transitional-

Two custom-turned columns (A. F. Schwerd Manufacturing Co., 3215 McCiure Ave., Dept. F1, Phisburgh, Pu. 15212; 127-56-6322) (photo facing page) punctuate the high-ceilinged living area. The cornice above these columns is built with custom-milled large-scale cover trim and stresses the out-of-scale nature of the space. The stairway framed by these columns is a cost-effective straight run with palnted risers.

This portal marks a transition to the more conventional kitchen and sleeping areas, characterized by standard 8-ft. ceilings and less elaborate trim. The kitchen itself is open to the main living area, and the bright-blue cabinetry offers

## Engineering a tall space

When building a three-story-tall space with a vaulted celling and a wood-shingled rook, there are two great structural concerns. The first imperative is making sure that everything defles gravity. Two-by-six balloun-framed sidewalls, stiffened by four 1½-fin. by 11½-fin. microlam pilasters, efficiently the foundation. The paired microlams are framed between the doors and the foundation. The paired microlams are framed between the doors and the fundows on the opposing walls (floor plans p. 99). Continuous 2x16s are let in to both sets of rafters just above the top plate; similar continuous 2x8s are let in just below and on both sides of the ridge. These steps help to stiffen the wall and roof structures further.

These sieps help to stiffen the wall and roof structure further. The most critical concern was dealing with the impact of wind on a space as large as this one. Because there are no wings butteresting this space, three sides are essentially unrestrained. In addition, the skip sheathing necessary for ventilating the underside of the cedar roof shitgles in sir as strong as continuous plywood sheathing. So engineer Martin Gehner of Branford, Connecticut, essentially had to create a super-stiff box.

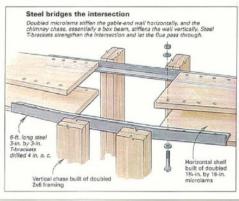
We sheathed all of the interior surfaces, including the ceiling, with ½-in, CDX

plywood (bottom photo). When combined with the let-in 2x framing and the microlam pllasters, we essentially created box beams at the roof and wall planes and braced the tail walls against the wind. Next, 1-in. steel lie rods boilted at the top of the microlam piliasters hold the walls parallel. Because there is such a long span, we used steel stays set at an angle to and suspended from the celling to help defeat the sag that normally occurs when a 1-in, steel tie is forced to

span more than 20 ft. (top photo).
Finally, we used the fireplace and chase to help stiffen the gable-end wall, along with a stiffening shelf that transversely crosses the chimney chase. The chase itself is a plywood-sided vertical box beam extending up the gable-end wall. The transverse shelf is constructed of doubled 1½-in. by 16-in. microlams that taper to 8 in. at the two corners. The two sides of the shelf are bolted together and into and around the chase with steel T-brackets (drawing below). When combined with some 1-in. 16-ga. steel strapping set diagonally at the corners of the ceiling, the wall and the ceiling are extraordinarity stiff and have shown no movement whatsoever, despite the gale-force winds that often buffet Long Island.—D. J.



Reinforcing with phywood and steel. In the absence of collar ties, I-in, dia, steel the rods supported by angled stays keep the tall walls from spreading. Because the rafters are skip-sheathed to allow the cedar roof to breathe, adding another layer of 'b-in, plywood on the interlor of the framing helps to stiffen the roof and walls against the wind.





rings; Mark Hanson

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Photos this page: Duo Dickinson. Drawing: Bob L.

an expressive contrast to the classical columns (top photo). And although much of the kitchen was fabricated on site and is field-painted (thus saving money), it is still custom-crafted and offers such amenities as pullout toy bins, oversize drawers and a built-in dish rack.

A slightly curving range hood echoes the curved-granite peninsula countertop. Although the granite countertop had a high initial cost, its cost per year over its life span compares favorably with less durable plastic laminate.

These curved forms occur throughout both the interior and the exterior of the house. In a potentially stark rectangular form such as this one, curves help to focus attention and add a sense of centering. The most visible example of this occurs immediately at the entry, where the porch ceiling arches over the curved top of the custom-fabricated, 8-ft. tall mahogany doorway (photo p. 96).

No compromise in finish materials-The real bottom line is value over time, and the use of quality finish materials translates into longterm savings. For example, a wood-shingled roof has a higher initial cost than its asphalt-shingle counterpart. But here the simple roof shape minimized valleys and variations in the surface area, the number of cut shingles and areas requiring extensive flashing. The shingle roof's visual impact is undeniable, and it should long outlast an asphalt roof.

A traditional siding choice in this area of Long Island, cedar shingles are a match for the weather in this region. There are less expensive options available, of course, but the bleached shingles we used on this house require little maintenance, a cost factor that can add considerable savings over the life of the structure. Hardwood floors are used throughout, and not unlike the cedar-shingled roof and siding, these floors are more expensive initially but will outlast carpet or vinyl and can be easily renewed.

Although not all design and building decisions can be reduced to a simple cost/benefit formula, keeping sight of long-term economy and utility when making aesthetic decisions can pay substantial dividends. Finding an experienced builder with ingenuity and skill is important. Building small-in this case about 400 sq. ft. less than typical neighbors-also helps. But in truth it is the simple footprint and the rationing of handcrafted architectural detailing to the public space that makes this house affordable yet uncompromised in its materials.

Duo Dickinson, an architect in Madison, Connecticut, is the author of Small Houses for the Next Century (McGraw-Hill Inc., New York, N. Y., second edition, 1995). Photos by Carol Bates except where noted.



A site-built kitchen. Bright-blue cabinetry reflects the owners' passion for the folk architecture of the islands of Greece. The kitchen is open to the living room and dining area. Photo taken at D



Plenty of windows on the western wall. Combining stock sizes of windows and doors in different patterns creates a custom look on a limited budget. Photo taken at E on floor plan.