



The Wood Design Awards 2005

A NORTH AMERICAN PROGRAM OF ARCHITECTURAL EXCELLENCE

Table of Contents

Honor Awards

- 8 **The Point House**, Rural Montana
- 18 **Bigelow Chapel**, New Brighton, Minnesota
- 28 **Conversation Piece**, Toronto, Ontario

Merit Awards

- 36 **Grace Episcopal Church**, Seattle, Washington
- 46 **Madrona Residence**, Seattle, Washington
- 56 **Belmont Lofts**, Portland, Oregon

Citation Awards

- 68 **Surrey Central City**, Vancouver, British Columbia
- 80 **Naramata Residence and Studio**, Naramata, British Columbia
- 88 **Ghost 6 Research Laboratory**, Halifax, Nova Scotia
- 94 **Prototype Infill Housing**, Dallas, Texas
- 102 **Prince George Airport Expansion**, Prince George, British Columbia



Prototype Infill Housing

URBAN EDGE DEVELOPERS AND EDWARD M. BAUM, FAIA

Using materials available on the mass retail building market, the attached infill housing units demonstrate that quality, affordable housing can be designed and built using conventional means. Fitting as modular pieces into the standard Dallas residential land parcel of 50ft. wide x 150ft. deep, the units fill the need for amenities such as covered double car parking, plentiful storage, privacy, and energy efficiency in the middle-income price range of \$275,000 to \$300,000.

Wood framing, paired 1,650sf units sharing a common wall, and a one-story courtyard plan brought the construction cost in at a little more than \$100 psf. One courtyard, covered by an inclined roof, forms the entry and parking. Another makes an outdoor 'room' between the living area and the flex room. The courtyard typology internalizes all outdoor space and sources of light and view, and improves security and privacy, an advantage when inserting infill units into various neighborhoods.

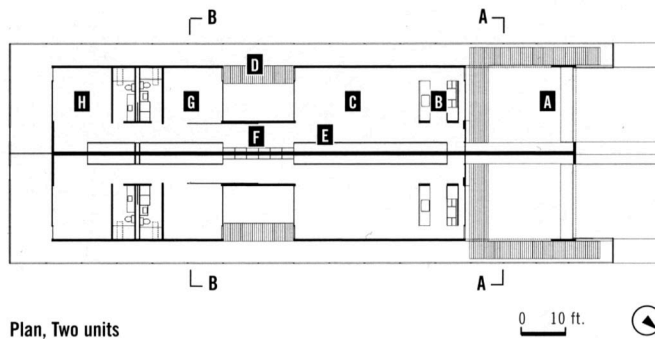
An 80ft. band of storage closets and bookshelves along the front-to-rear circulation route ties the dwelling together. Four identical window/sliding door units provide light, ventilation, and access; they also extend the sense of space well beyond the enclosed volume.

CLIENT Urban Edge Developers and Edward M. Baum, Dallas, Texas ARCHITECT Edward M. Baum FAIA, Dallas, Texas STRUCTURAL
ENGINEER Structural Studio, Dallas, Texas CONSTRUCTION CCM Group, Dallas, Texas PHOTO Hester + Hardaway, Fayetteville, Texas



Courtyards are connected and surfaced in gravel over topsoil, inviting planting, paving, or other treatment by the owners.





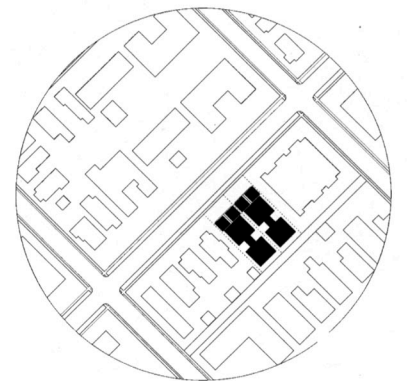
Plan, Two units

- A Car/entry court
- B Kitchen
- C Dining/living
- D Courtyard
- E Closet wall
- F Book shelves
- G Flex room with sliding partition door
- H Master bedroom

Construction is standard wood frame - 2x4 walls and 2x12 roof joists on 16in. centers – that gives the contractor stick-built or panelized framing options, accommodates needed variations, and provides a flexible context for other trades and products. Exposed and painted roof joists give the spaces throughout a sculptural continuity. The standard 32x80 hollow core flush wood door, encloses the storage volume, makes up the sliding wall to the flex room, and supports the bookshelves.

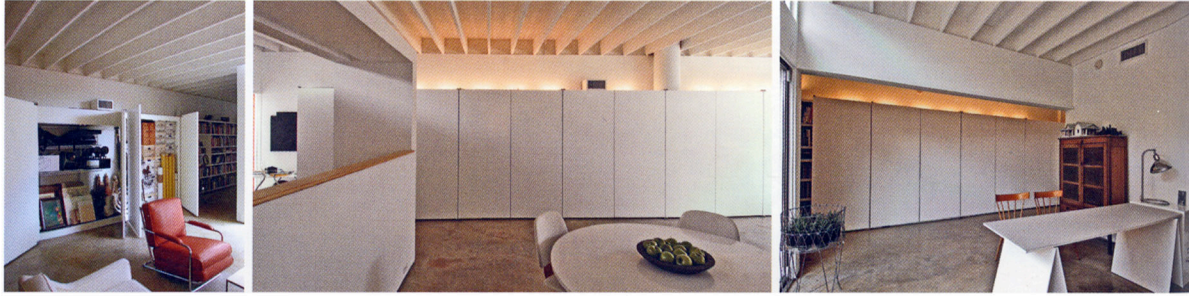
Cypress 1x6 tongue and groove siding lends an exterior richness far beyond its cost. The siding runs horizontally with the bevel edge exposed on the walls running in the long direction; and vertically with squared edges visible on walls in the short direction. In this way the volumes gain three-dimensionality and the board ends become self-capping at outside corners, making a simple economical detail.

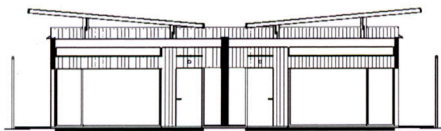
Jury – A great model for an urban infill in which continuity with the street and the raised angled roofs give the project a strong individuality. Painting the lumber ceiling joists makes them elegant and emphasizes their sculptural quality and framing rhythm.



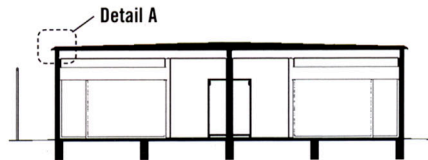
Site Plan

The flex room becomes an office, study, or second bedroom by sliding the interior wall.

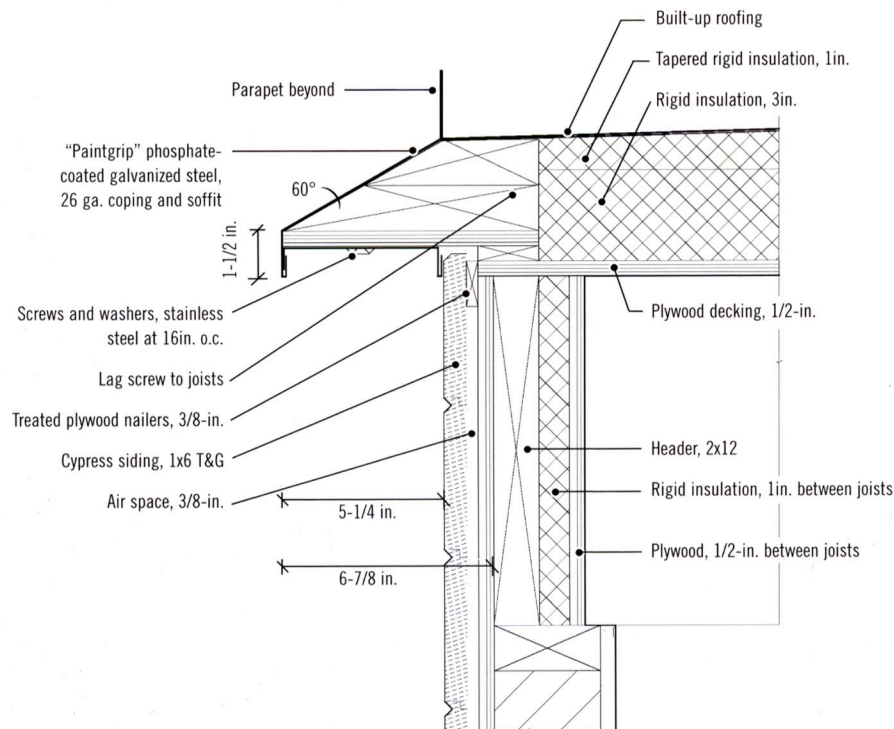




Section A-A



Section B-B



Detail A: section at side walls



Product Specs

Frame

- Platform construction 2x4 walls and 2x12 roof joists on 16in. centers, oriented strandboard wall sheathing and plywood roof sheathing, tapered rigid roof insulation and roofing membrane, concrete slab waxed

Exterior

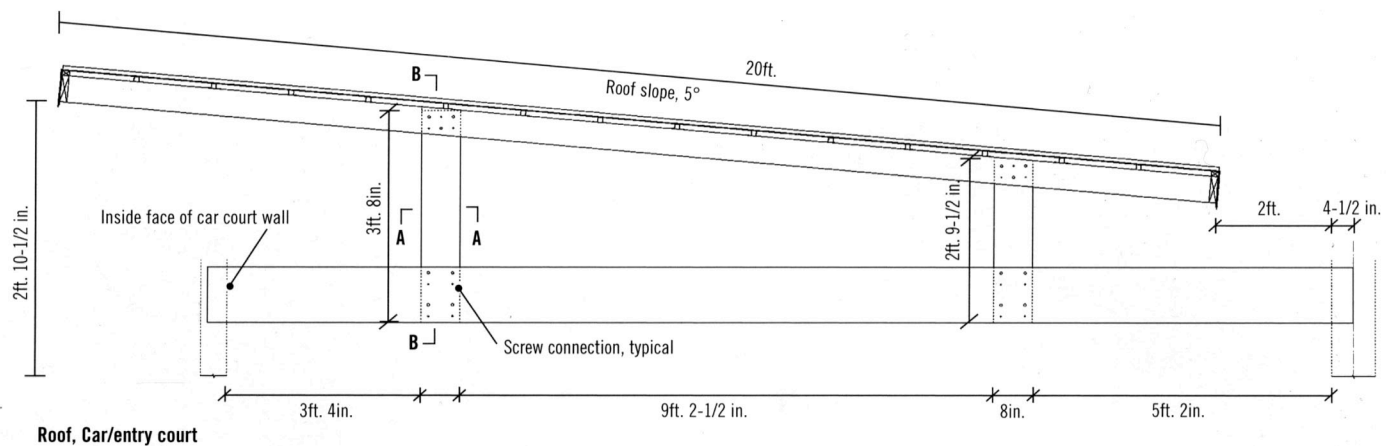
- Cypress 1x6 tongue and groove siding used horizontally and vertically, and for walkways, stained with sikkens cetol SRD

Interior

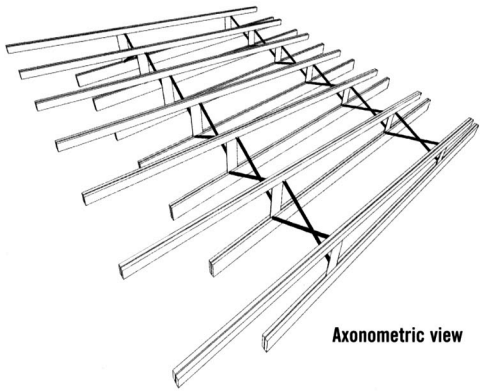
- Painted drywall and painted, exposed 2x12 roof joists
- Area: 1,650sf per unit

Cost

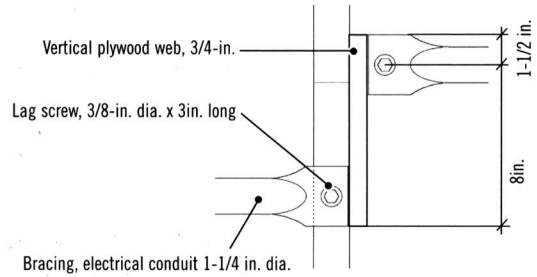
- \$100/sf approximately



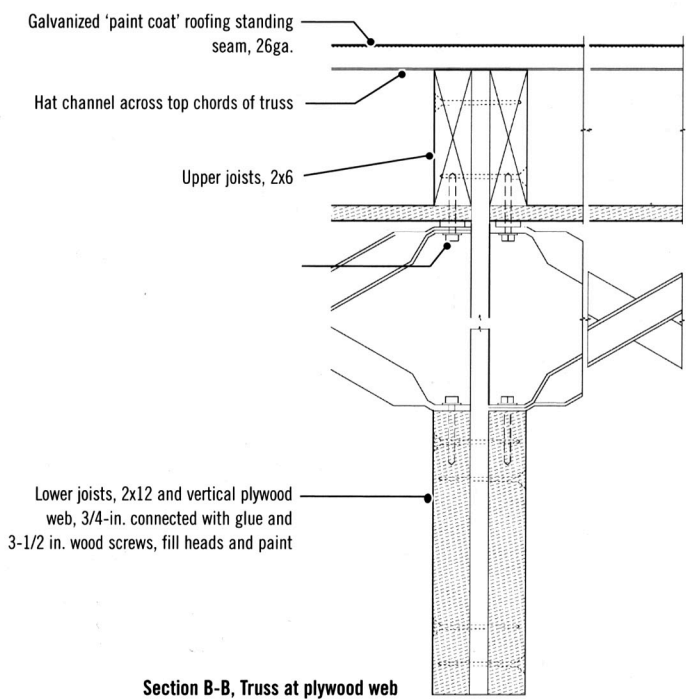
The trusses supporting the inclined roof above the entry/car court are made of paired 2x12s and 2x6s sandwiching 3/4-in. plywood vertical webs. Pieces of electrical conduit with ends flattened and drilled serve as diagonal bracing. Galvanized steel sheet forms the roof surface.



Axonometric view



Section A-A, Truss at plywood web and diagonal bracing



Section B-B, Truss at plywood web