

REAL ESTATE

SATURDAY A U G U S T 28, 2004

A PUBLICATION OF THE ADVERTISING DEPARTMENT

Straw Bale Construction

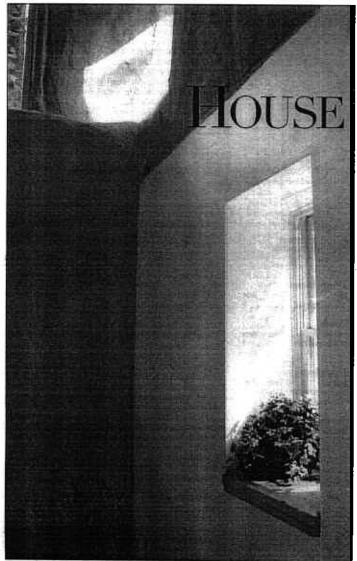
According to the Historic Survey of Straw tale Construction" found n the Internet at http://eontruction fibres free fr/histo-yhtml in the United States. Straw bale construction ommenced in the Sand tills region of Nebraska round the middle of the inteenth century. A lack of onventional building naterials such as timber in ils pioneering prairie region nd the sundy soil which as unsuitable for sod (nurf) mss) built walls necess sted the use of a locally vailable and thesp alter-ative building construction unterial. The newly invented orse drawn bay baler rovide the building blocks nd these was born straw hay) bale construction. he oldest known building vas a classroom in Hayard, Schniska built mound 886-87.

These buildings were umble and comfortable and time bale developments continued in this region up to the 1940's when the availability of better known materials halted the use of straw, tround thirty buildings acheding houses, a church and farm buildings were oustructed. Most were built a load-bearing bale troctures, some without ender. The oldest surviving uilding from this era is the two built and the straight of the straight

Ecomundo is an ecologially centered recreation and duration facility, supporting the condoor adventurer in Baja. They provide a wide aristy of educational and ecreation programs entered around the natural easity of Bahin Conception Conception Bay off Highway 1 in Bala, Mexico, 600 inlies south of the U.S.viexico border and 80 miles south of Loreso Airport, The sustainable, low-

The sustainable, lownergy-use architecture of icomundo's Education lenter was designed by votessor of Architecture lugene Ray, San Diego share University. For 40 ears Dr. Ray has been a cader in the field of tropical relationary, and natural airconditioning. The use of hay alle construction creates a ractical facility with a raditional look.

Bahia Conception is toutd as one of the top ten most cautiful actings in all of dexico. The adjacent town of Mulege was voted by the numbers of the Discover taja Travel Chib as the number one town to visit in







here is a beautiful post and beam constructed house in the woods of western Orange County that is insulated with bales of straw. No, the straw is not stacked around the outside of the house, but baled and placed on a moisture barrier at least six inches above the final exterior grade and hold securely in place by two #4 rehar pinning each bale to the foundation. Subsequent bales also have two rebar holding them securely in place.

Real stucco covers the exterior of the house and metal lath and plaster the interior. The use of compressed straw bales as an insulating material results in wide window sills and door frames. It combines with the hardwood and tile floors and wood beamed ceilings to give this house a very sturdy look. You'll feel like you're in the Old Country, as the Irish say, when you walk into this house.

TOUSE OF STRAW

Wood makes it beautiful Straw makes it warm





Built in 1998 using New Mexico Straw-bale Construction Guidelines, a copy of which is at the house for visitors' perusal, the house was built to meet or exceed North Carolina building codes. The building passed inspection by the Orange County Building Inspection staff, according to the owners and Coldwell Banker Howard Perry and Walston listing agent Susan Waldrop.

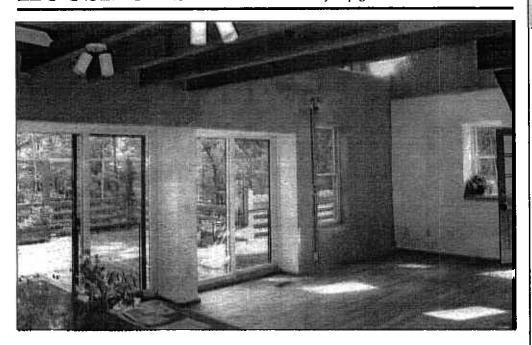
The house has 1,776 heated square feet of living space and more than 700 square feet of wrap-around decks. Situated in the middle of a hardwood forest, this is a wonderful hideaway for those who want some peace and quiet. Restrictive covenants will ensure that this large-lot neighborhood stays this way.

Step into the open living room with its two-story cathedral ceiling and you'll be able to imagine South-western décor filling this 15- x 20-fixet space – a leather couch themp rug with Indian designs and wall hangings. Light fills the space from tall windows on both stories.

The house is sited on an 11-acre lot to take advantage of passive solar building techniques. Utility bills are low because instead of insulation to R19 of the typical 2x6-inch frame wall, straw bales insulate to between R42 and R70 when the straw is mechanically baled with builing wire or polypropylene twine and sufficiently try with a maximum moisture content of 20 percent at the time of usuallation. A vapor barrier is also placed over the top course of bales to prevent

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moisture entering the top of the wall of bales. Building paper was not used as a moisture barrier on vertical surfaces of straw bales to allow natural transpiration of moisture from the bales. Where stucco netting was not used, the first coat of plaster or stucco was thoroughly worked into the snaw. At all points where the straw bales are butted against a different material, metal lath was used to cover the junctions.

Straw bales burn very poorly because they are highly compressed; so there is not a good opportunity for air flow. Instead of burning, bales char then selfextinguish. Loose straw is a potential hazard, but was not used at all in the straw-bale construction of this home. In fact, plastered straw-bale homes perform better than conventional

building materials for fire safety according to the National Resource Council of Canada (U.S. Department of Energy, 1995 "House of Straw" DOE/G0100094-1). A University of New Mexico study ("Fire and Lateral Load for two-wire plastered and unplastered bases"), sponsored by the State of New Mexico, tested plastered and unplastered straw bales and found them to be far less flammable than a regular frame wall with fire stop and insulation-There is propane gas forced-air heat throughout the house, and a gas cooking range in the open kitchen which boasts beautiful maple cabinets. The 14- x 16foot kitchen has an island and all appliances convey.

Walk out onto the decks and your entertainment space is doubled. There is a master bedroom

and bath on the main floor and a huge loft that could accommodate two bedrooms upstairs that would share a full bath.

Four of the 11 acres on this property are fenced. Children living in this neighborhood would attend Efland Cheeks Elementary School, Stanback Middle School and Cedar Ridge High School.

For more information or a private showing of this unique property that is being offered at \$229,900, call Susan Waldrop at 644-8710 or log onto susanwaldrop.com.

Directions: Take I-40 to Efland Exit 160; Turn left; go through blinking light and make a left onto Chestnut Ridge Road; go 1 mile; turn left onto Carrington Farm Lane which is a gravel road. (There will be a pointer sign and curve going to the right and an asphalt road going to the left - do not take the asphalt driveway - bear right and stay on the gravel road.) Make a right hand turn with the road and turn left onto Monadnock Ridge Road; you'll see trees with wooden house number signs pointing the way to 3401 Monadnock Ridge; come to cul-desac and see Coldwell Banker Howard Perry & Walston sign



Lending a F

embers of the Home Builders Association of Durham & Orange Counties have set a goal of building a Habitat home every year. Making good on that goal is a cooperative effort that relies on the generosity of a wide range of the HBA's members.

This year's home is being built for Maisha Smith and her family, who will purchase the home from Habitat for Humanity, Durham County. Ms. Smith is currently engaged in the work that is required of all Habitat homeowners and was working to help paint the house next door to her future home as it rose from a foun a fully framed house in just one day.

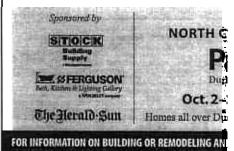
Ronnie Moore and his crew gave the projump start. Ordinarily, Moore is a framing subcontractor for D. R. Horton, Inc. For the three years, however, they have been the top volunteers on the HBA's Habitat projects!

The HBA is proud of the community servi members provide—through the organization as individuals and companies.

THANKS TO T

Zeigler & Company Williams Construction Co. **Westminster Homes** Wakefield Development Company Tucker Development, Inc. Triangle Brick Trellis Homes, Inc. Tracy Goetz Tom Myers Construction Company Timberline Builders The John R. McAdams Company, Inc. The Insurance Center of Durham, Inc. The Appliance Center Telesis Construction Management Synergy In Print Stock Building Supply Steelmark Construction of the SE Starnes and Sons Construction

Spaulding & Norris, PA Space Builders Scott Daves Construction, Inc. Rounte Moore Revere Building Products Redfoot & Weber Construction C Readlite & Barricade Preferred Carolina Realty, Inc. Poythress Construction Compan Olde South Homes, Inc. Norandex/Reynolds Distribution **Newland Communities** Moore & Alphin, PLLC Loyd Builders, LLC Johnson Homes, Inc. Joe F. Berini Construction Co., In-Jamestowne Homes, Inc. Home Team Properties, Inc.



ABOUT continued from page 1

Baja. Located in an area of Bahia Conception with many close offshore islands and reefs. the scenery and water activities are superb.

The Education Center is an open classroom palapa with audi-visual aids is available to educators as a base of operations for ongoing classes, lectures and study programs, as well as special projects. Activities include guided and self-guided activities include: kayaking, bicycling, swimming, snorkeling and hiking. For more information, visit http://home.earthlink.net/~ remathews/EcoMundo_.html.

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