



Design Limits: Strength vs Serviceability

By Brian Ki, EIT

The job of a structural engineer is to design and analyze members to meet current loading requirements. The everyday person typically interprets this as "design the building so it won't fall down, or collapse." By all means, Team Engineering agrees, but there's more.

Something interesting that most people don't understand, or account for, are the additional checks for safety beyond that of ultimate failure. There are usually two types of analysis performed when considering structural design; **strength** and **serviceability**.

Strength takes in consideration the type of material, shape, dimensions, and the general properties of each member. Failure methods include warping, buckling, and hopefully never reaching collapse. In short, these types of failures overburden the structure with more than it can handle. This is what people interpret as "design the building so it won't collapse" scenario.

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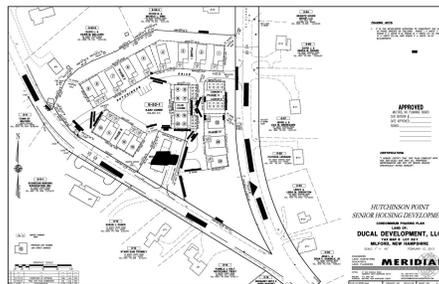
Project Spotlight - Nothin's Easy!

By John Turner, PE

New Hampshire is such a cool place to live. We are right up there with Virginia and Montana of states that like to put some personality into our license plates. Call it vain? I call it fun. One of my personal all-time favorites was on a sweet Corvette, "NTHNSEZ". Of all the people, my conservative Mom quoted that plate regularly.

The statement certainly applies to our building codes. We tackled a great project in 2016 with our design partner, Jason Aselin at JAD Design Group (<http://jadedesigngroup.com/>) for Ducal Development, called Hutchinson Point – now under construction in Milford, NH. (<http://www.hutchinsonpoint.com/>).

As always, Jason's design is creative, beautiful and practical. We were asked to weigh in on "Code Compliance." The design also presented interesting questions that we worked through with the leadership team at Ducal and in the



Town of Milford. We learned through this particular project two significant items:

1. The Town of Milford is pleasantly pro-development. Both the Building Department and the Fire Department were helpful, responsive, and open to practical and economical solutions.
2. The leadership team at Ducal is committed to life safety for residents – even to the level of exceeding minimum Code requirements.

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Team Player Spotlight - Eric Battey

I recently shared an awesome trip with my wife Karyn, it was an annual incentive offered by my wife's company, The Pampered Chef. To date this is the 20th trip that she has earned. (Aren't I lucky!)



We traveled to Cancun Mexico and stayed at a 5-star all-inclusive resort: Barcelo Riviera Maya Palace Deluxe. All we needed to bring was sunblock, beachwear and sandals! While there we



enjoyed fantastic weather (85-90 degrees with a light breeze) every day. There were extensive opportunities for excursions such as visiting historic ruins and discovering Mayan culture, swimming with dolphins, exploring underground caverns or Cenotes (pron. sen-O-tay) or just relaxing on the beach (my personal favorite this trip).

Looking forward to next year's trip to Puerto Rico!



Charitable Giving: CASA of NH



Our own, Pam McKinney has been a CASA (Court Appointed Special Advocate) volunteer for over a decade. A CASA volunteer is appointed to advocate for the child's best interests in an abuse or neglect case. The advocate becomes the "eyes and ears" of the court, making independent, objective recommendations to the judge based on the information they have gathered through meeting with the child and his or her parents, foster parents, social workers, school teachers, therapists and more.

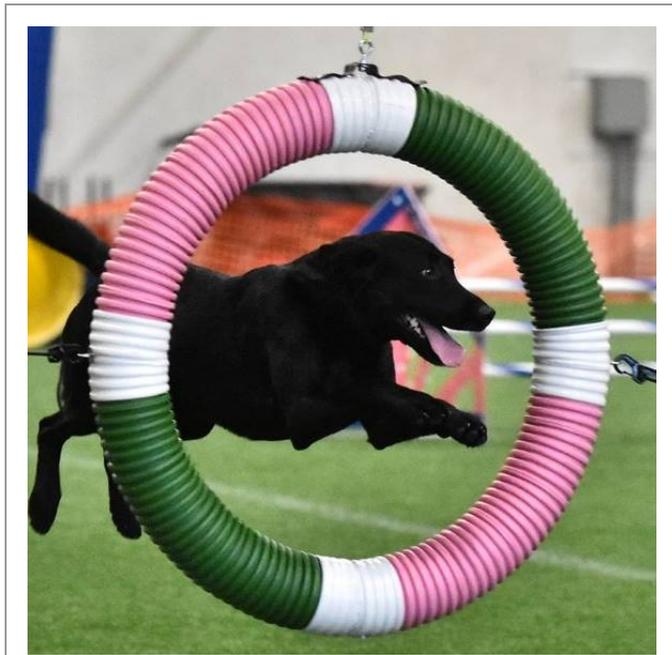
Mission

Court Appointed Special Advocates (CASA) of New Hampshire strives to protect the rights of our state's most vulnerable children to live, learn and grow in the embrace of a loving family. As part of the national nonprofit organization CASA for Children, our trained volunteer advocates speak for the best interests of abused and neglected children who've come to the attention of New Hampshire's family court system through no fault of their own.

Team Engineering has proudly donated \$150 this month to **CASA of NH**.



What's happening with Team Engineering



Turbo competing at an agility show in Rhode Island

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