Release Notes for RISAFloor Version 3.1

Version 3.1.0 Enhancements / Corrections

Enhanced Loading Features

- Added ASCE-7 2005 Load Combinations to the Load Combination Generator
- Added the ability to eliminate the weight that would be tributary to the foundation from Seismic Weight of the structure
- Added the calculated "base" weight of the structure to the seismic force dialog
- Added mass nodes for diaphragms that are below the base elevation

Enhanced Analysis Features

- Added a Sparse Solver to speed up solution times and reduce memory requirements

Enhanced Steel Design Features

- Added AISC 13th Edition Steel Code
- Added Canadian Composite Steel Design
- Changed the BS steel code to distinguish between H and I sections when choosing which strut curve to use for columns
- Corrected a number of little bugs related to Composite Beam design using metric units
- Corrected display of shear and moment capacities for the detail report for LRFD Composite beams
- Corrected a problem in the Physical Column code that could result in "1#0" error messages

Enhanced Wood Features

- Added NDS 2005 Wood Code
- Corrected a bug in the 2001 wood database that was using a lower Fc value for DFL #2 Post and Timbers

Miscellaneous Enhancements / Corrections

- Corrected a problem with the color hatching of decks that are displayed "as input"
- Corrected display error which caused an Lcomp-Bottom value set to 'Segment' to display as "-2"

Version 3.1.1 Enhancements / Corrections

Enhanced Loading Features

- Added ASCE 2005/ IBC 2006 Wind Loading Code
- Added ASCE 2005/ IBC 2006 Seismic Loading Code
- Added ASCE 2002/2005 Live Load Reductions
- Added IBC 2003/2006 Live Load Reductions
- Added Mexican Seismic Loading Code
- Negative Base Elevations for Calculation of Wind and Seismic Forces are Now Allowed

Enhanced Results

- Changed the Max Base Reaction Results for Columns to Consider Live Load Reductions

Enhanced Hot Rolled Steel Design Features

- Minor Changes To Stud Placement Code to Allow Better Consistency Between Segmented and Uniform Stud Options

Enhanced Concrete Design Features

- Added Mexican Concrete Design Code
- Corrected a Bug In the Self Weight Calculations of Concrete Columns

Miscellaneous Enhancements

- Added Member Detailing Information to be Used with Upcoming CIS/2 Translator
- Added INI Only Option to Turn off the Dynamic Mouse Graphics Features

Miscellaneous Corrections

- Correction to the AISC 'Cb' Calculation (Most Likely to Affect the Model When Using the "Segment" Code)
- Correction to the Units Conversion for Parametric Concrete Shapes
- Correction to the Use of the Max UC Checks in the Design Rules for Composite Beams
- Correction to the Deleting Unattached Points Function where Points Along Beams Could Get Deleted

Version 3.1.2 Enhancements / Corrections

Miscellaneous Enhancements / Corrections

- Primarily released to address some corrections in the RISAFoundation program. Refer to RISAFoundation release notes for more information.
- Corrected an error with the display of un-selected beams. This only occurs in RISAFoundation when it is launched from RISAFloor.
- Corrected a length conversion bug in the rebar database. If length units were other than feet, the program had been erroneously converting rebar cutoff lengths entered in as a % of length.
- Added Security Codes for REVIT Structure Versions. There is no direct impact to the program.
- Correction to Cb calculation for columns for ASD 13th Edition. This was previously being set to -1 resulting in un-conservative column code checks.
- Corrected bug in the end reaction calculations that made it possible to receive a negative value for reducible area in the live load reduction calculation