

## **Release Notes for Lateral3 V4.2.0**

### **New/Changed Features in V4.2.0**

- IBC 2006 code option added. Actually, almost all of the material comes from ASCE 7-2005 which is referenced from IBC 2006. Some items of note:
  - Alternate approximate period calculation by Eq. 12.8-9.
  - Either Eq. 12.8-7 or Eq. 12.8-9 can be used to determine upper bound for Rayleigh period.
  - The default value for the seismic stiffness factor for IBC 2006 and IBC 2003 was changed to 0.7 to reflect recommendations in Cleland and Ghosh, reference #20.

### **Bugs Fixed in V4.2.0**

- 055 Changed the table which displayed Max. Shear and Max. Overturning Moment to now display the Shear that coincides with the Max. O.T. Moment and the O.T. Moment that coincides with the Max. Shear. They are usually the same but not always.
- 059 Added a check for consecutive wall numbers. Previously the program crashed if a wall number was missing.
- 235 The "Save current problem?" dialog that you get when when you click (e.g.) on File > Open while you have unsaved modifications now has a Cancel option.
- 274 The [F1] key will now display the Help from the Wind Parameters I page of IBC 2003.
- 291 The function key hints in the status bar are correct.

### **Unresolved Issues**

- 136 In the BOCA 96 code, values such as  $A_a$  and  $A_v$  are rounded to two place decimals (what you see is what you get). Would like to be able to enter three place decimals.
- 146 When an application hits a dead end during calculations, it should pass a flag back to the UI so the user can be notified instead of having to look for a ">>>WARNING" in the output.
- 149 There should be a context menu to insert/delete rows in the data entry grids. You shouldn't have to enter zeros to clear a row.
- 150 Wall labels must be integers starting with 1 to <however many walls there are>. Can't skip numbers or analysis won't run. Labels should be just that, labels, not indexes into an array or some other internal thing.
- 152 Wants a flexible diaphragm option.
- 300 Variable first story wall height.
- 310 Add a button to the Toolbar that displays context-sensitive Help.
- 338 Short period waiver should be disabled when any of the known criteria are not satisfied.