**Nodes:**

* Restraints – done
* Point springs?

**Frame elements:**

* Elastic
  + Rectangular - done
  + Other shapes - needs to be checked
  + Section database – export from ETABS
  + Stiffness modifiers (section and assignment?) – check if it works both ways
  + Beam end releases
  + Joint offset/rigid end zone
* Lumped plasticity hinges
  + Vz shear hinge – done
    - coupling beams F and D scaling?
  + Other hinges - !!!
    - Lumped (single, PMM)
    - Fiber
* Frame fiber sections

**Area elements:**

* Elastic
  + Stiffness modifiers
    - Different DOFs
    - section and assignment
* Inelastic
  + MVLEM-3D – done
  + SFI-MVLEM-3D - later
  + Layered shell element
* Shell end releases

**Damper elements:**

* Yes, probably create an automation – look into how ETABS does it !!!

**Base isolation elements:**

* Yes

**Load:**

* Point load – done
* Line load?
  + Global vs local cs - done?
  + add projected load
* Load patterns vs load cases vs load combinations

**Mass:**

* Point mass – done
* Assignment via load pattern
* Assignment via self-mass from material density
  + Implement all EABS option, but convert everything into addition nodal, line, and area masses internally (during creating of the files).

**Issues:**

* 42-story example
* flipped areas have wrong assignment
* ASDshell creates convergence issues [blows up]