## CANOPY TRUNK DIAMETER DIAMETER 44' 25" 40, 27' 34, 20' TREE SIZE 20" ű, 10, 15, LARGE -COTTONWOOD -ASH -MAPLE MEDIUM -BIRCH -BOXELDER -CHOKECHERRY SMALL -CRABAPPLE -HAWTHORN -MTN. ASH -JAPANESE LILAC SIZE CATEGORY & SPECIES 200 TREES AT MATURITY IN ASPEN, CO CANOPY DIAMETER (FEET) 20' 75 30' AVAILABLE WATER STORAGE (FT3) 400 SCENARIO 1A: SECTION VOLUME NEEDED TO GROW 1 BIG URBAN TREES 30 20 60 TRUNK DIAMETER (INCHES) 600 SOIL VOLUME (FT3) 4" - 10" 12" $\infty$ 12" 50, REQUIRED SOIL VOLUME (CUBIC FEET) 800 240 FT <sup>3</sup> 1200 FT <sup>3</sup> 600 FT 3 FEATURING SILVA CELL STANDARD TREE PLANTING ADJACENT TO SIDEWALK, STREET, AND BUILDING 1000 Angle of repose, varies per project specifications Undisturbed Soil-Planting soil below root ball Tree root ball, size varies DeepRoot UB18-2 Root barrier Use tree grate as needed. If used, lower top of root 3" Mulch above tree pit Tree trunk, size varies-1200 Curb $\lesssim$ $\geq$ -Aggregate base course, width varies per COA Engineering specification 1" air space between Silva Cell deck and planting soil overlap past excavation Concrete walk, width varies per COA Engineering specification Geotextile, 18" minimum Silva Cell base slope to max. 5% Geotextile on compacted subgrade Planting soil per Silva Cell: specifications, installed in 8" lifts (2 lifts per cell) Anchor each Silva Cell to ground with (4) 10" spike, see Cell base for spike hole http://www.deeproot.com/products/silva-cell/resources.html refer to website: Additional installation detail specifications **ASPEN**

KEY PLAN (for reference only)