Thrice explores the intersection of three cones generated from a classic structural component, the column. Three temporary columns are tied to the ground by ropes forming the intersecting geometries. The resulting fabric faceted tensile form is only temporary however. Once coated in ice it converts to series of three intersecting fabric shells that act in compression. Once the form gains rigidity, the columns will be removed allowing intersecting cone-shaped towers. Rope formed oculi (in tension in the construction phase) permit the easy removal of the columns and allow natural daylight to penetrate deep into the spaces and create remarkable reflective moments. Each asymmetrical cone employs a tension ring at the top and bottom that flip into compression when the columns and interior ropes (where the cones intersect) are removed. Through the process of boolean subtraction (using virtual cones intersecting the actual one), two entryways that naturally transfer load to the ground in a catenary shape, are intrinsic to the geometry and structural integrity of the final pavilion. Our goal is to create a form of intersection and experience while providing the passerby a sense of curiosity and playfulness to investigate the inner workings of our ice spires.
CONSTRUCTION PROCESS

1. ORGANIZE LAYOUT
2. CONNECT ROPE ANCHORS TO FROZEN BASIN
3. ATTACH ROPE TO LOOPS MOUNTED ON TELESCOPIC COLUMNS
4. RAISE PNEUMATIC COLUMNS LEAVING ROPE IN TENSION
5. DRAPE PRE-CUT FABRIC OVER THE FORM
6. BEGIN LAYERING ICE OVER THE FABRIC LAYER
7. REMOVE PNEUMATIC COLUMNS FROM THE FORM
8. ILLUMINATE. ENJOY.

SECTION 1

SECTION 2