X SQUARED FORMS

INFORMATION NARRATIVE

JOB# 4001
JOB NAME SICUT COLUMBA IN IPSUM

CONCEPTUAL MODULES
A circle of [redacted]" is created. It is segmented into [redacted] identical arcs.

[redacted] arcs are assembled to create an [redacted] curve. Each of those segments is rotated individually to [redacted]°.A straight line of [redacted]" is added to the top of the upper arc segment.
This is the lower portion of the module.

The upper arc is duplicated and joined to the top of the straight line segment. The lower arc of the lower portion is duplicated and rotated [redacted]°. It is joined to the previous arc, and to another straight line segment of [redacted]".

CONSTRUCTION MODULES
A rectangle is created [redacted]" x [redacted]" high. It is joined to the on-going assembly with [redacted]" clearance from the bottom of the assembly.

This assembly is then edited to join all segments and remove unwanted segments.
This assembly is then mirrored, and joined at the center.

It is then joined at the bottom to a tab of [redacted] x [redacted]". The process of editing to join and remove unwanted segments is repeated. FINAL SUBTLE ADJUSTMENTS ARE MADE TO ENSURE SMOOTHNESS OF JUNCTURE OF ALL SEGMENTS.

This creates Module M1 and M2 with the exception of the interlocking slots that connect the 2 modules. This is accomplished by a careful placement and subtraction of module from module.

ARRAY
As predicted from the above subtraction, the modules are joined perpendicularly.

STRUCTURE
The structural support is produced by 3D printing. The thickness of the tabs is offset by [redacted]" for expansion and contraction. This forms the outline of the hollow walls which house the modules. The entire support structure is therefore a [redacted] shape, with [redacted].

X SQUARED FORMS

INFORMATION NARRATIVE (CONT'D)

JOB#	4001
JOB NAME	SOCIT COLUMBA

BASE TOP

Slots are cut, with [redacted]" clearance for expansion and contraction in the base top for insertion of the modules. The tops of the tabs align with the [redacted].

BASE, PEDESTAL

Refer to Dwg set [redacted], sheet [redacted] included with this set.