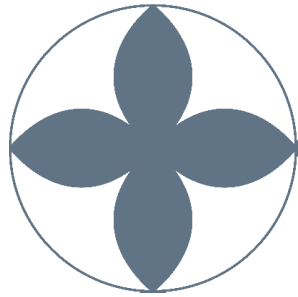


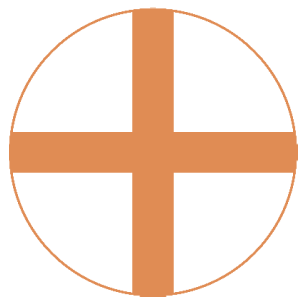
BUILT ON
THE ROCK

PREMISE



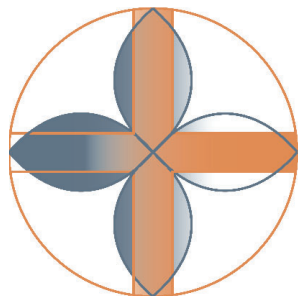
CHURCH PROJECT VIABILITY

CHURCHES age and decay while their congregations move into storefronts, **LACKING THE RESOURCES** to build and maintain them.



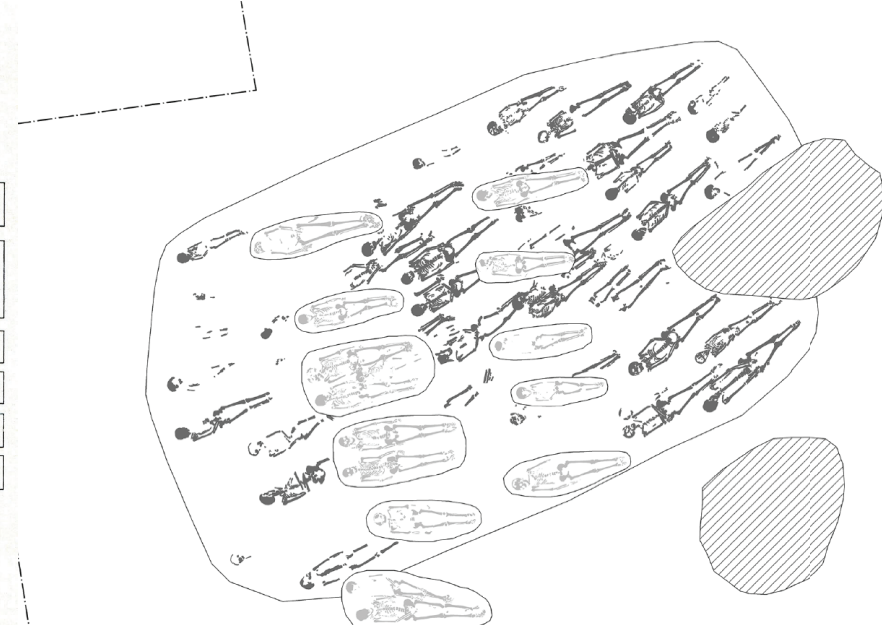
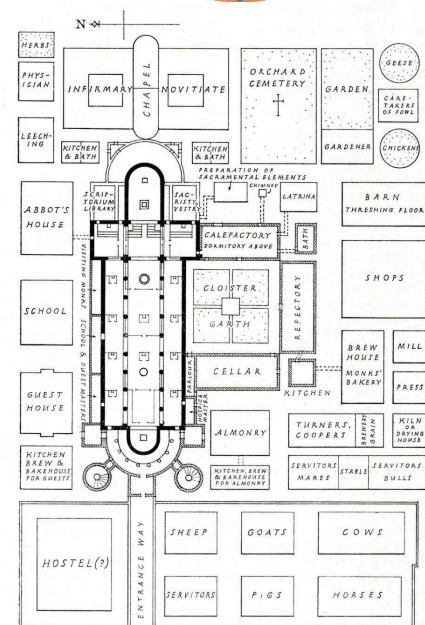
EMERGENCY MEDICAL CAPACITY

In light of heightened **PUBLIC HEALTH FEARS**, uncertainty arises surrounding the **EMERGENCY SURGE CAPACITY** of healthcare systems.



SHARED HISTORY

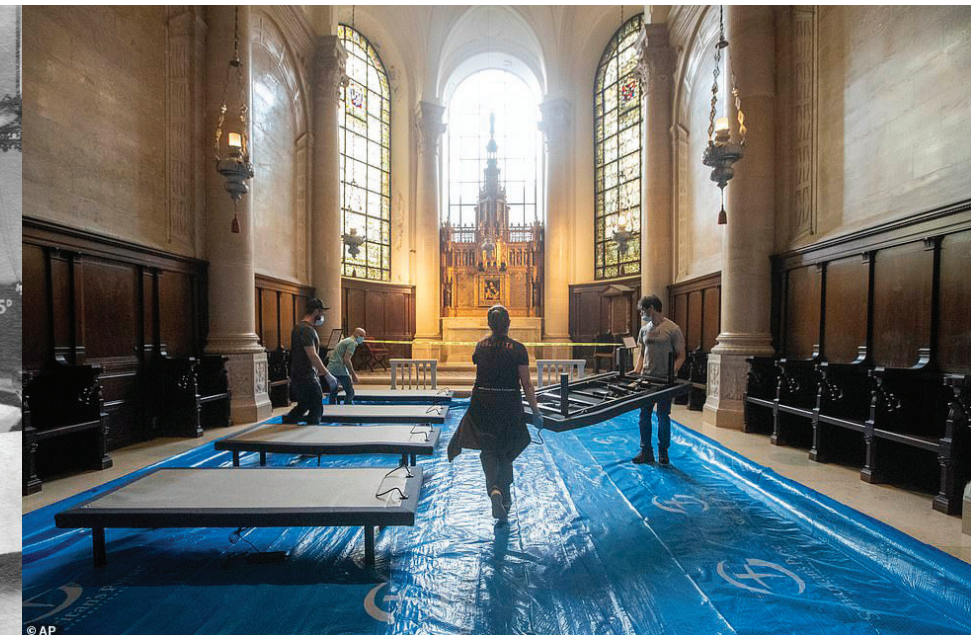
Church architecture and emergency medical care share a centuries-old **COMMON HISTORY**, offering answers to **BOTH ISSUES TODAY**.



St. Gall Monastery Plan, 830 Thornton Plague Grave, UK, 1349



Calvary Episcopal, Pittsburgh, 1918

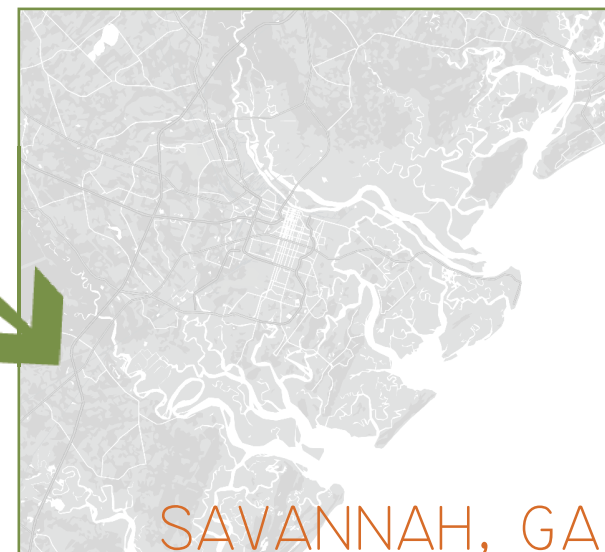
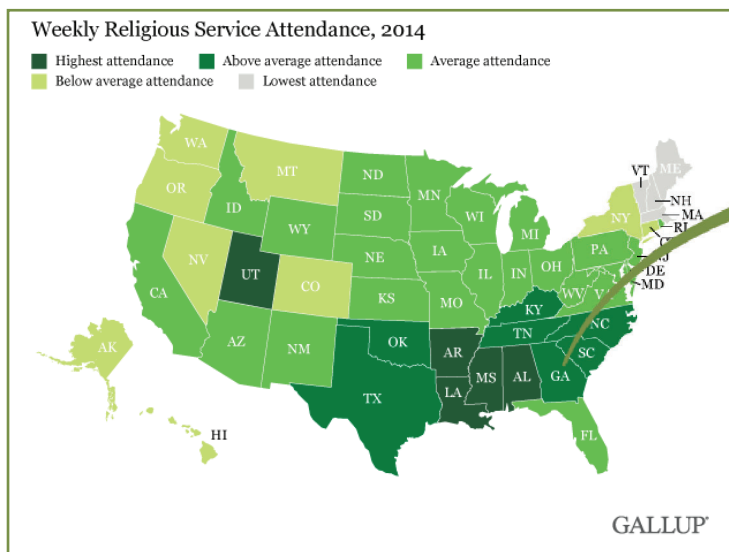
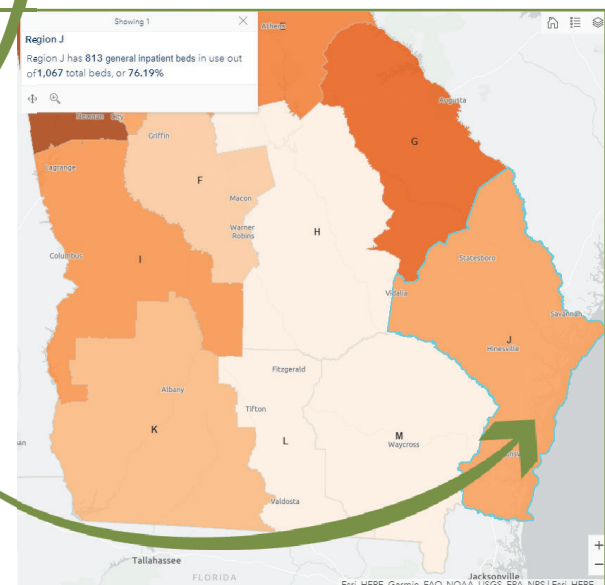


St. John the Divine, New York, 2020

PROJECT LOCATION

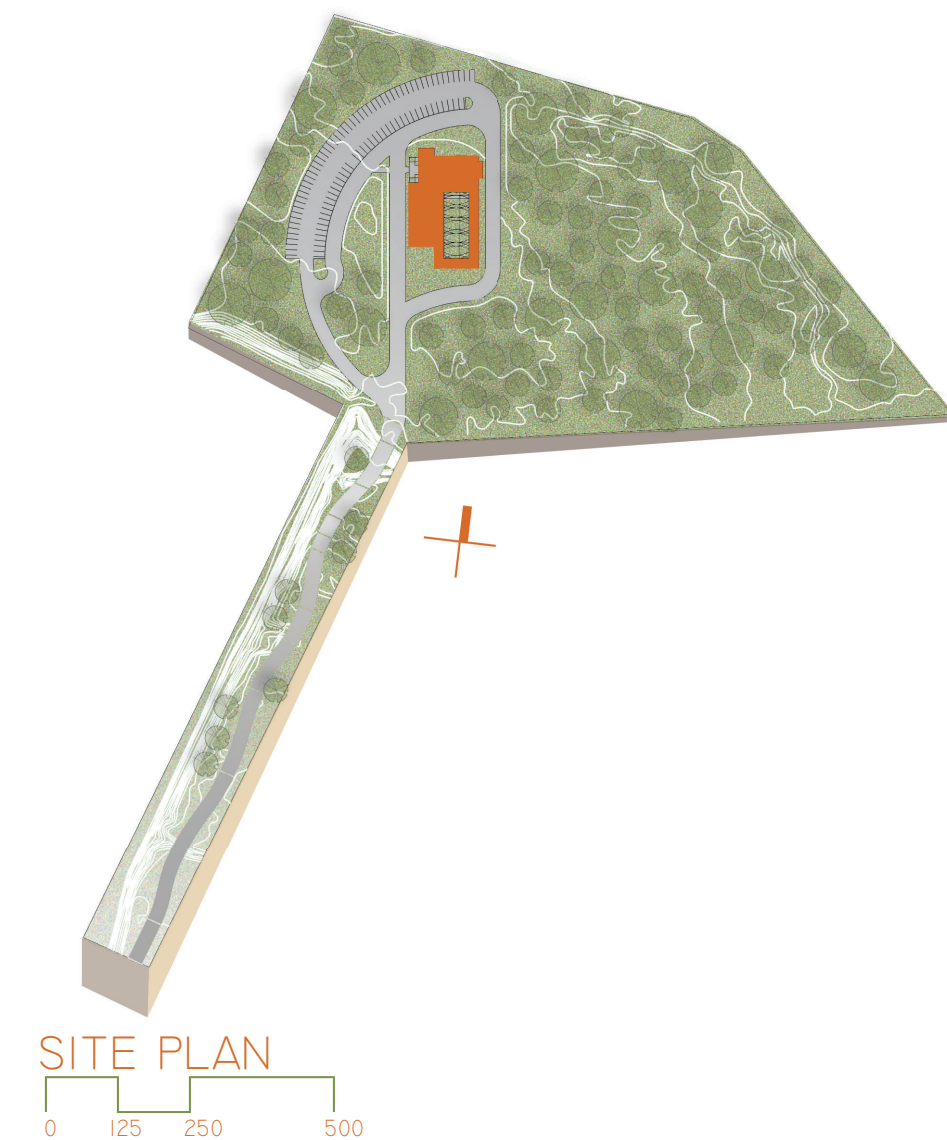
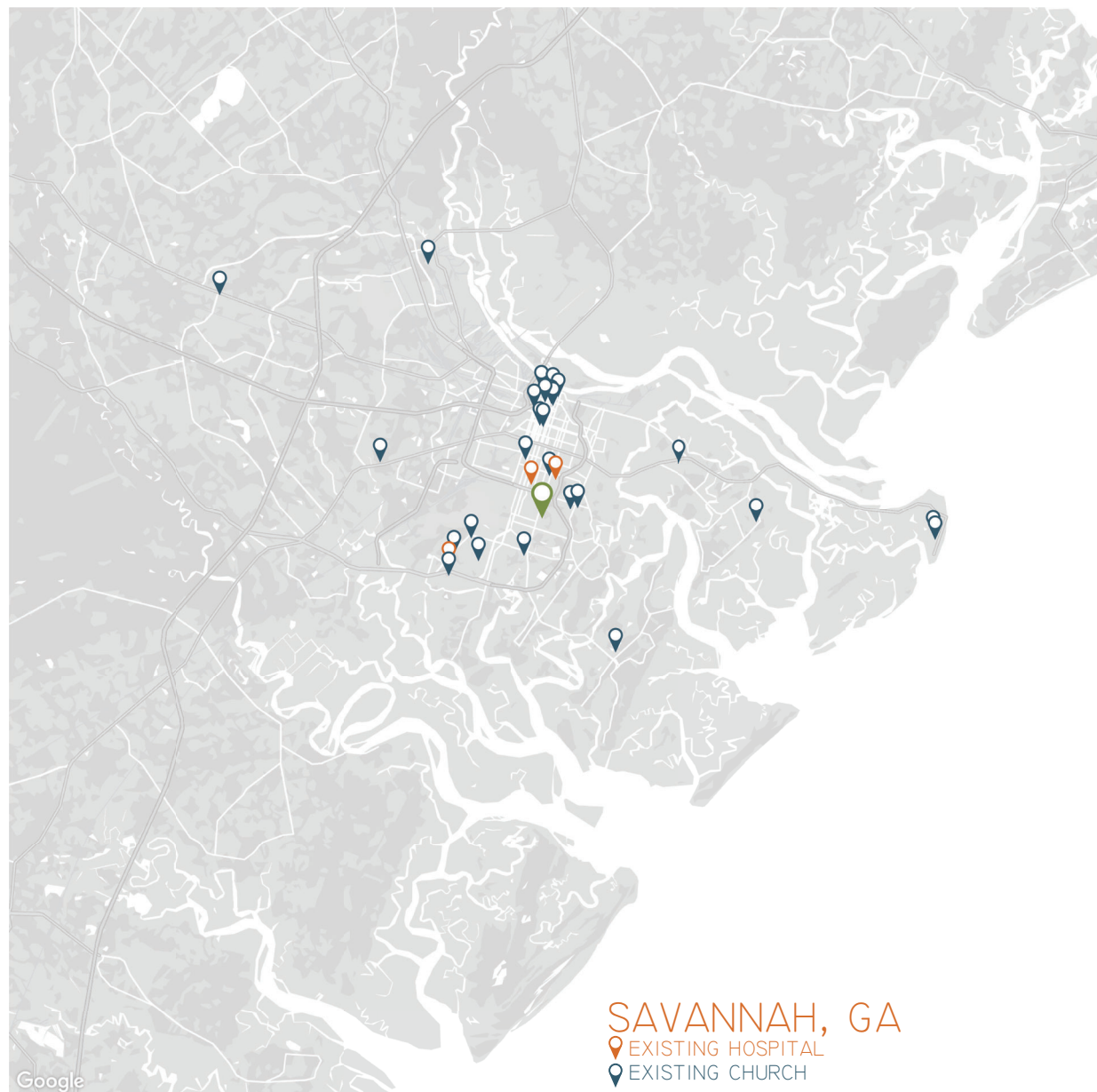
state	collection_date	Inpatient	% Inpatient Beds Occupied	Total Inpa	State Average	Percentag	Beds per 1000, 2015
FL	9/4/2020	4,681	5.99	78,102	7.70	0.001	2.6
FL	8/24/2020	6,063	7.75	78,269	7.70	0.001	2.6
FL	9/8/2020	4,330	5.53	78,356	7.70	0.001	2.6
FL	9/7/2020	4,304	5.49	78,360	7.70	0.001	2.6
GA	9/8/2020	2,476	13.75	16,908	16.44	0.006	2.4
GA	9/10/2020	2,456	13.61	16,854	16.44	0.006	2.4
GA	9/6/2020	2,465	13.65	16,918	16.44	0.006	2.4
GA	9/9/2020	2,460	13.6	16,970	16.44	0.006	2.4
GA	9/7/2020	2,453	13.54	16,939	16.44	0.006	2.4

Region	Inpatient in Use	Inpatient % of Total	ICU Beds in Use	ICU % of Total	ED Beds in Use	ED % of Total
A	188	45	37	80	33	26
B	558	76	105	71	37	20
C	787	90	138	85	87	37
D	3540	75	924	79	567	55
E	411	71	67	96	70	49
F	1124	74	171	73	162	50
G	946	79	138	78	118	52
H	174	65	36	90	22	25
I	551	85	85	90	69	49
J	781	93	199	87	105	32
K	551	71	91	78	50	31
L	361	79	69	95	33	31
M	205	61	51	70	57	68
N	1110	96	204	90	174	62



Vertical list of data rows, likely a detailed table of contents or index, with columns for state, date, and other metrics. The text is small and partially obscured by the main tables.

PROJECT LOCATION



RESEARCH

TYPOLGY RESEARCH

CHURCH BUILDING 1924
R. A. CRAM

THE SMALL CHURCH 1939
F. R. WEBBER

CONTEMPORARY CHURCH ARCHITECTURE 1972
R. GIESELMANN

STONES OF WITNESS 1999
C. CUNNINGHAM

PLACES OF WORSHIP 2004
N. W. ROBERTS

CHURCH DESIGN PRECEDENT

DISASTER RESILIENCE

FEMA COASTAL CONSTRUCTION MANUAL

2011

TYPOLGY RESEARCH & CASE STUDIES

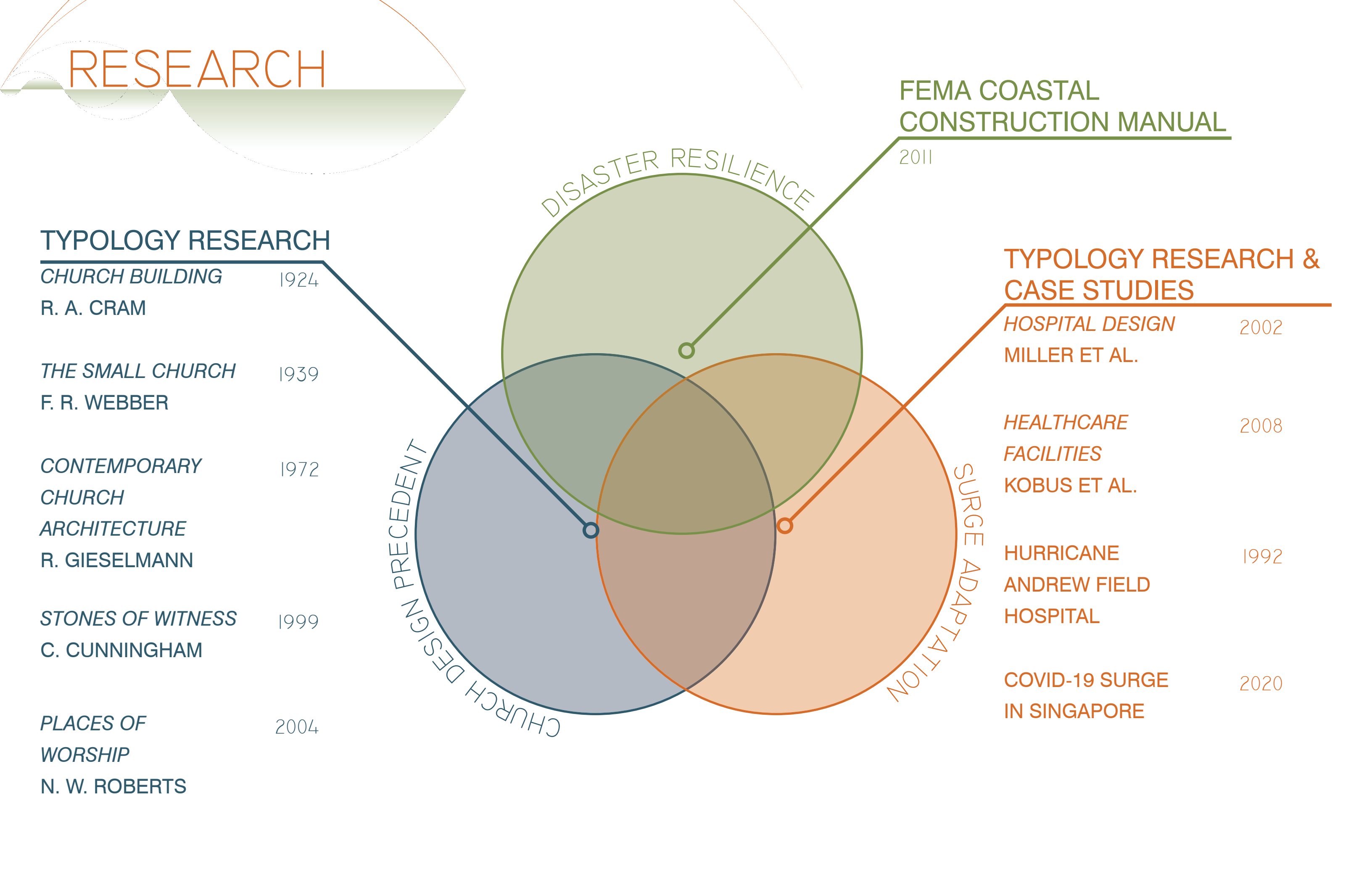
HOSPITAL DESIGN 2002
MILLER ET AL.

HEALTHCARE FACILITIES 2008
KOBUS ET AL.

HURRICANE ANDREW FIELD HOSPITAL 1992

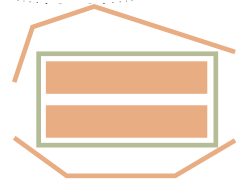
COVID-19 SURGE IN SINGAPORE 2020

SURGE ADAPTATION

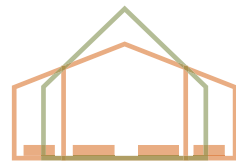


DESIGN PREMISES

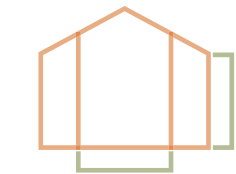
CHURCH



PROPORTION



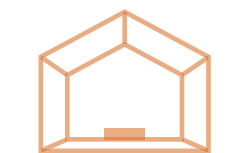
SECTION



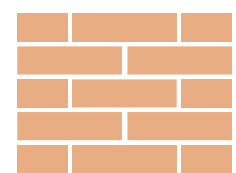
HEIGHT



GLAZING



FOCUS



MATERIAL

SURGE



MASSING



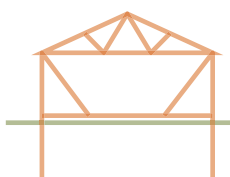
PLAN



SHEAR



ROOF



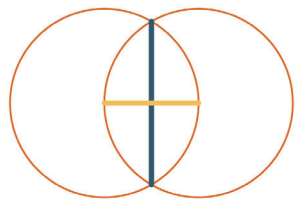
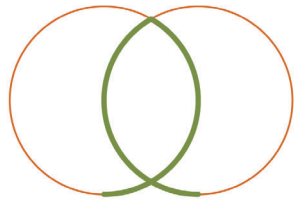
M.W.F.R.S.



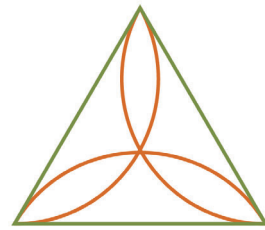
LOAD PATH

ORDERING SYSTEM

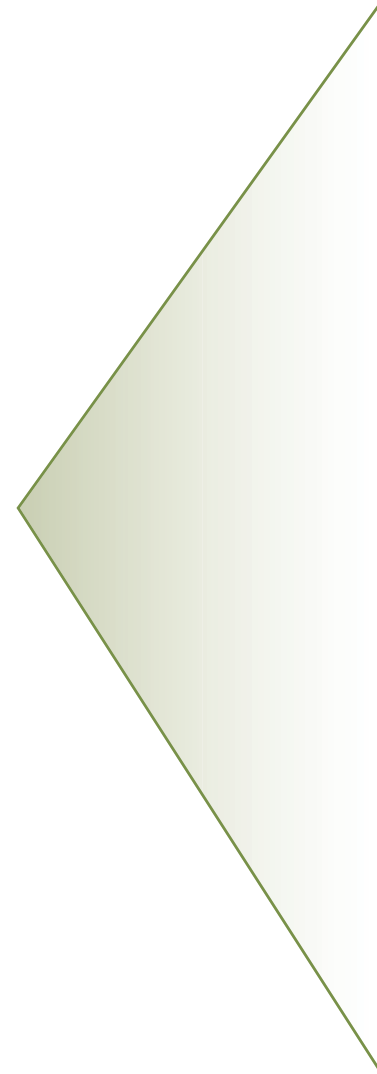
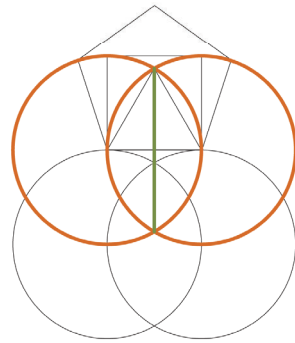
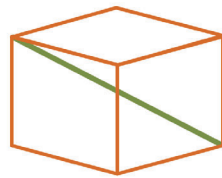
SACRED GEOMETRY



$$\left| \begin{array}{c} | \\ \cdot \\ | \end{array} \right| = \sqrt{3}$$



$$= (\sqrt{3})^2$$



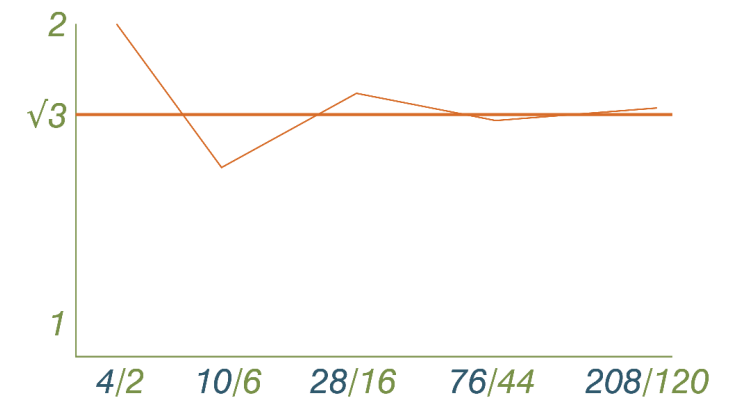
$$\sqrt{3} = 1.7320508\dots$$

For \sqrt{c} ,

$$x_n = x_{n-1} + y_{n-1}$$

$$y_n = x_n + (c-1)x_{n-1}$$

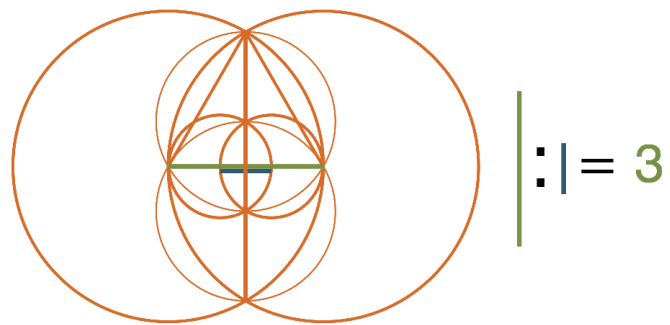
2, 4, 6, 10, 16, 28, 44, 76...



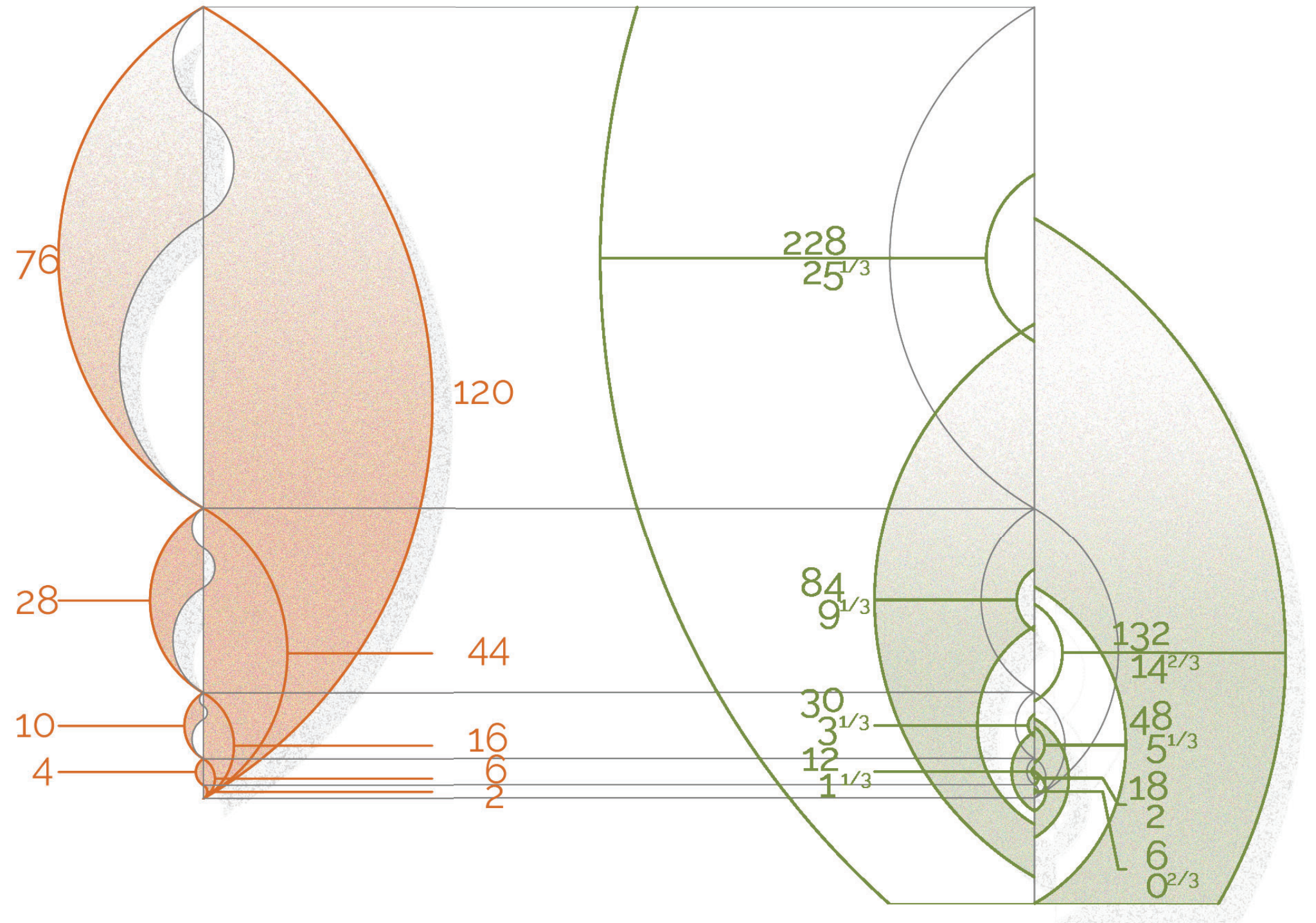
ORDERING SYSTEM

SACRED GEOMETRY

2, 4, 6, 10, 16, 28, 44, 76, 120

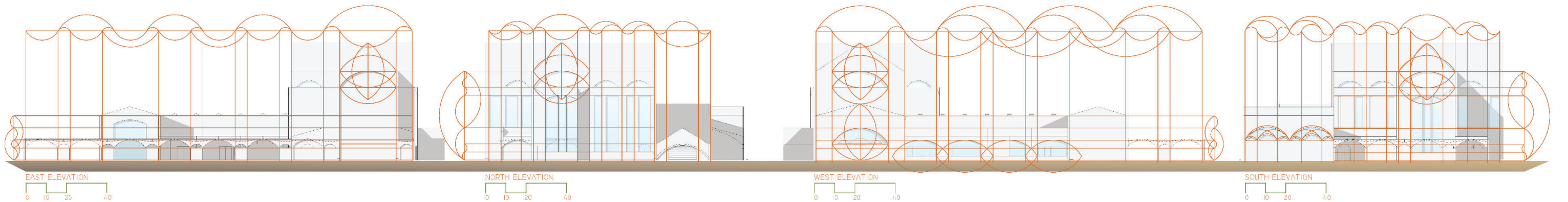
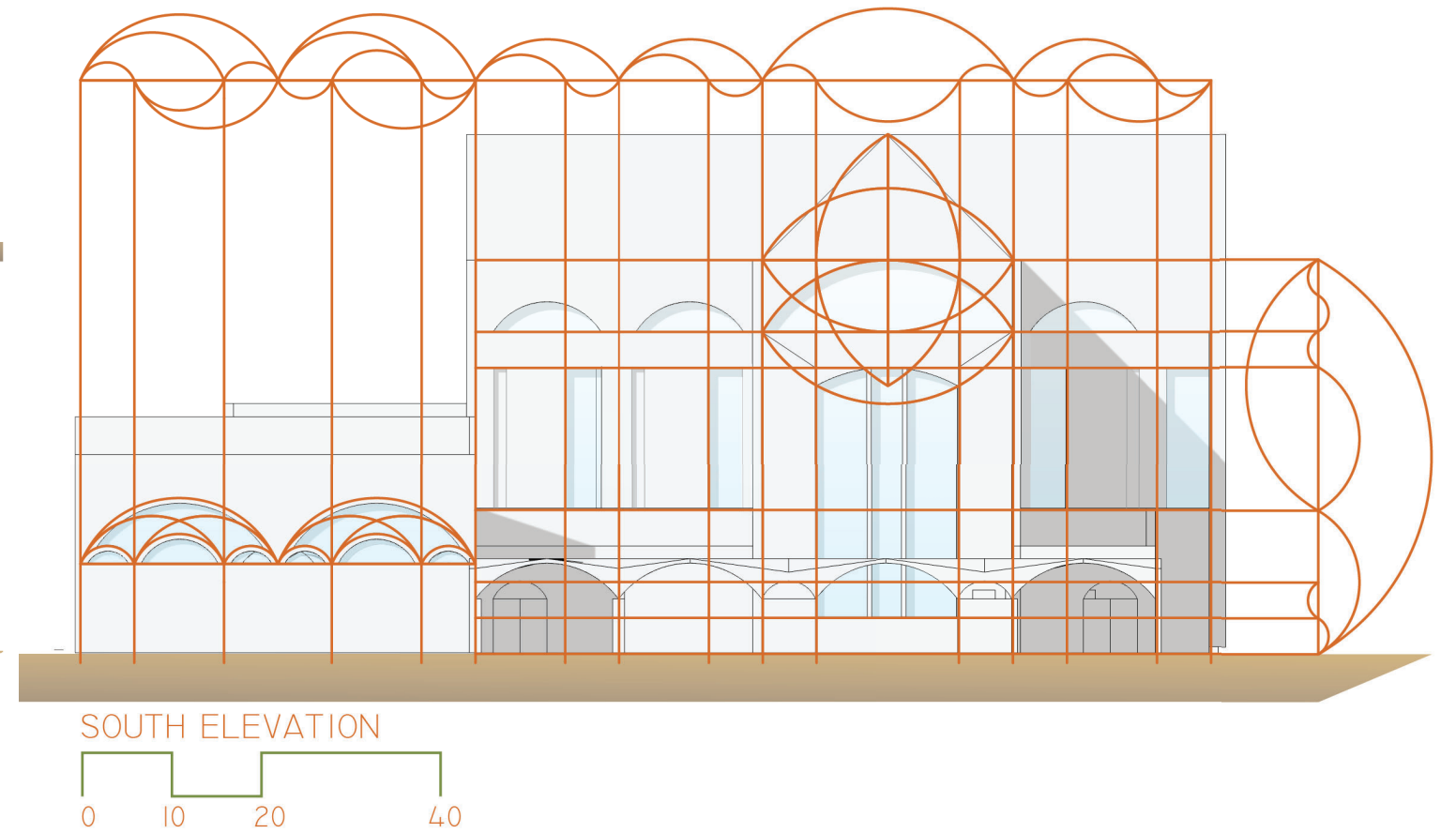
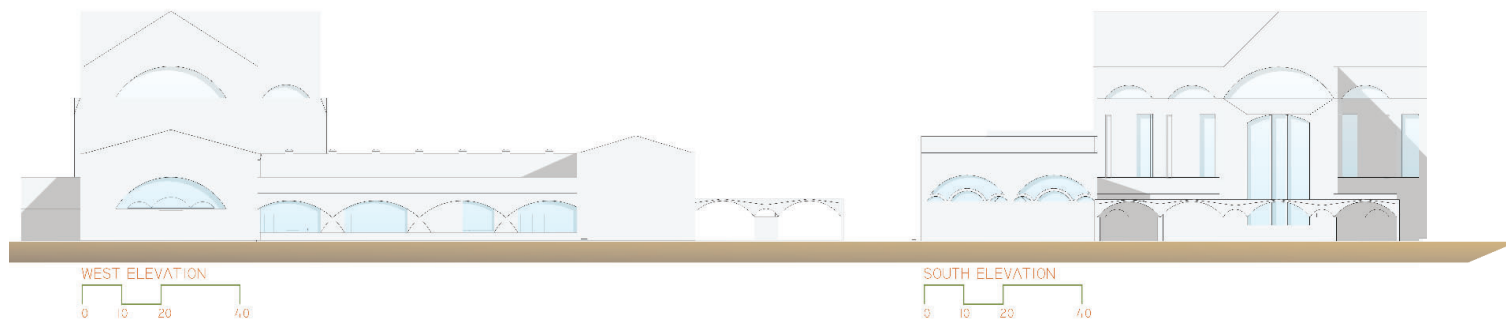
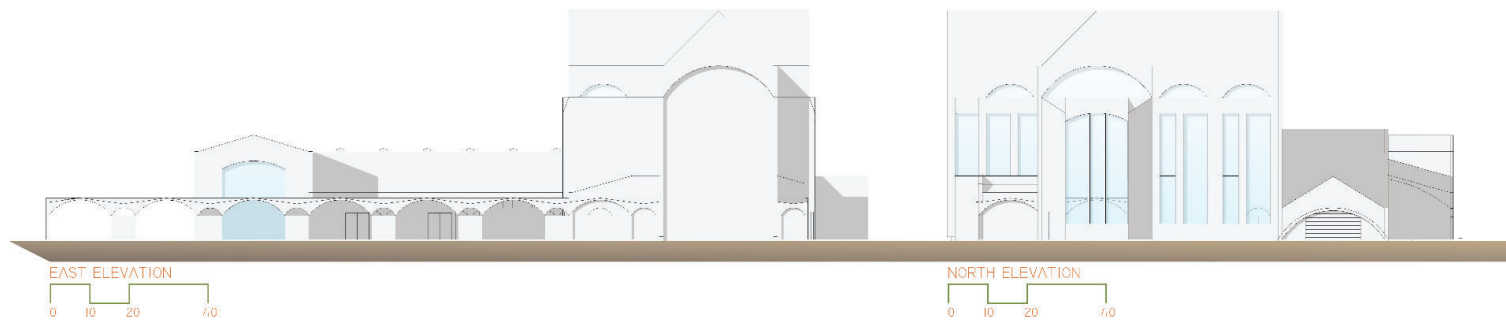


6, 12, 18, 30, 48, 84, 132, 228
2, 4, 6, 10, 16, 28, 44, 76
 0.6, 1.3, 2, 2.3, 5.3, 9.3, 14.6, 25.3



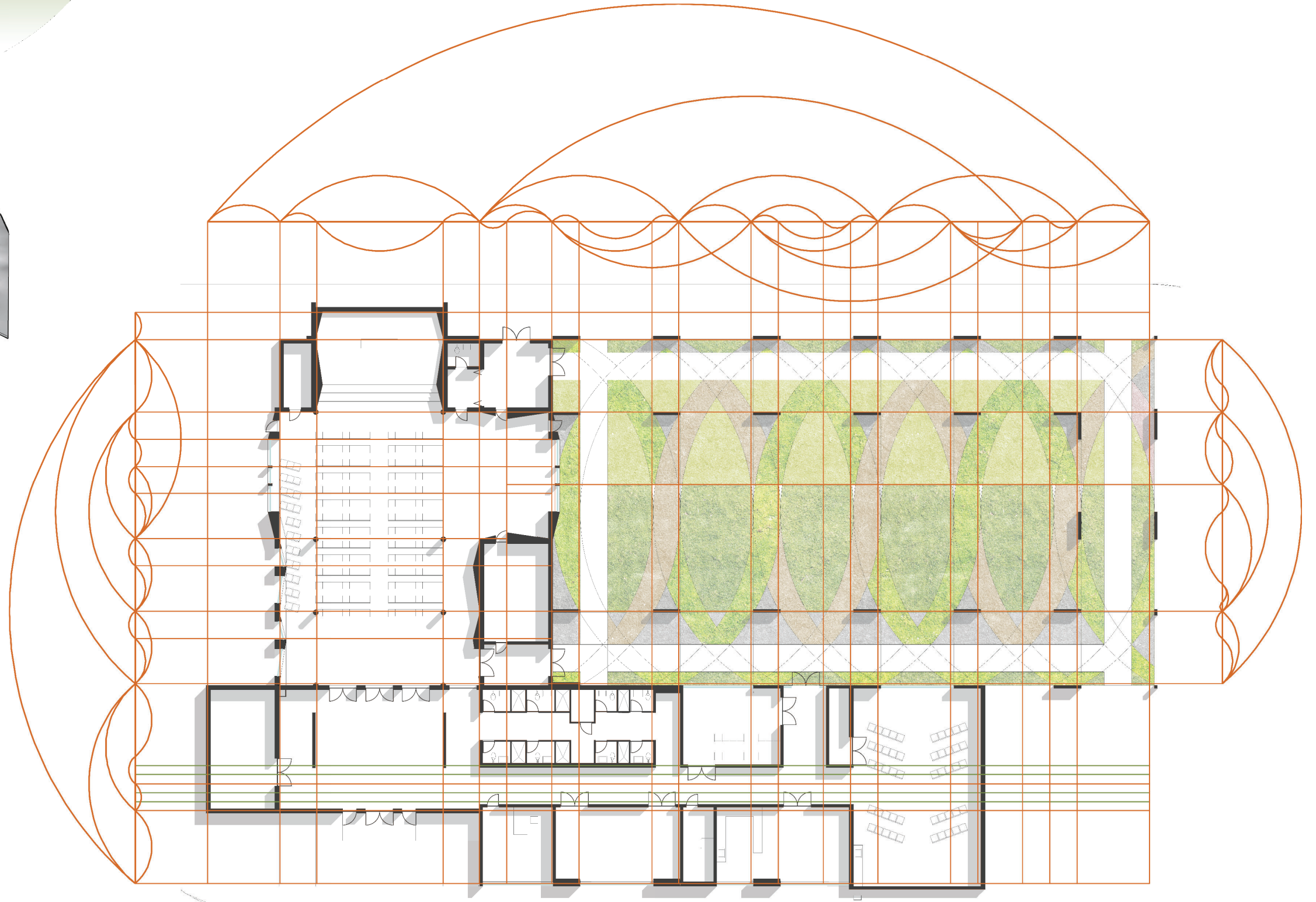
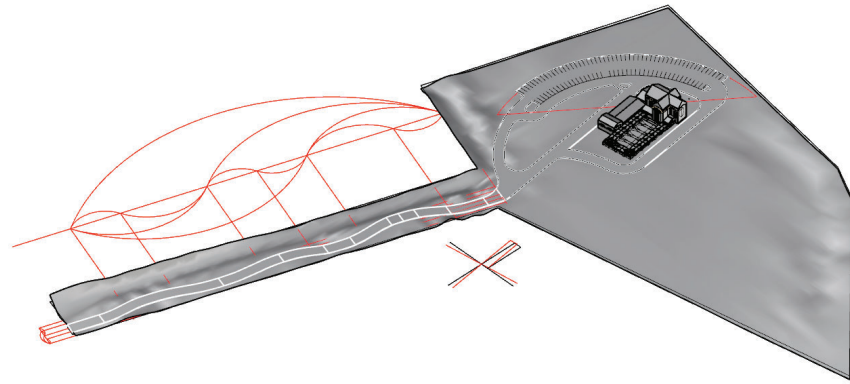
ORDERING SYSTEM

APPLICATION



ORDERING SYSTEM

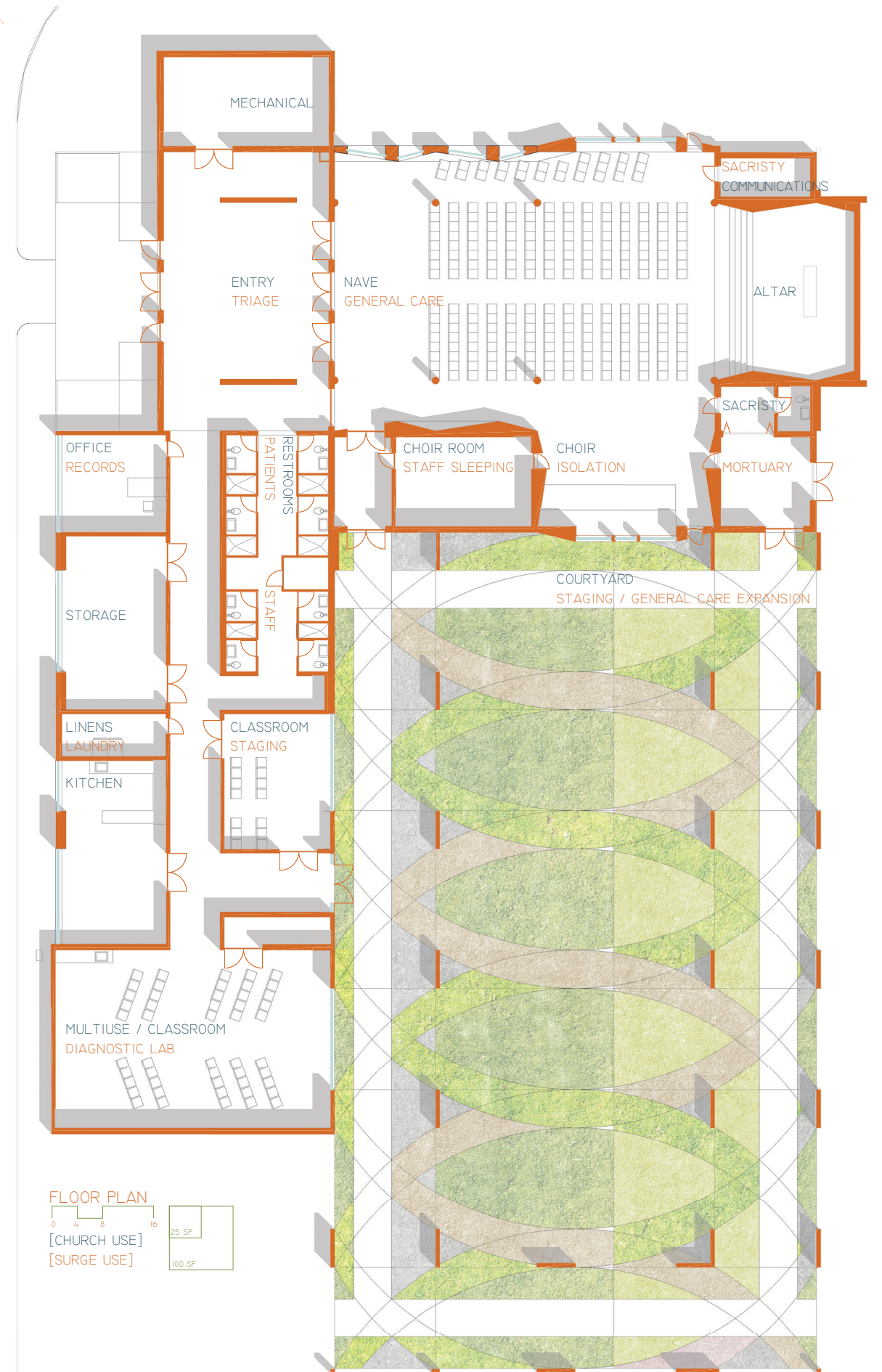
APPLICATION



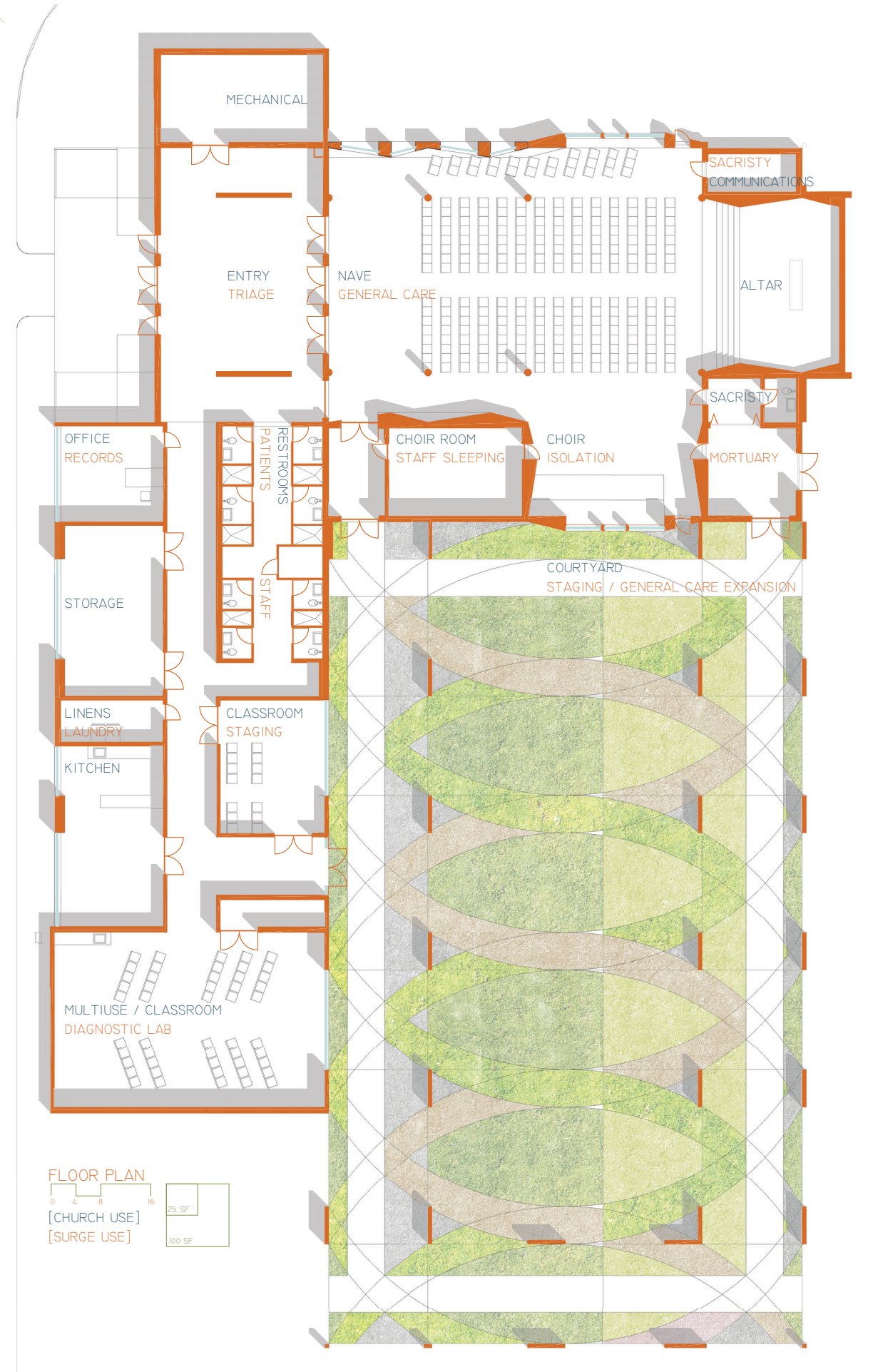
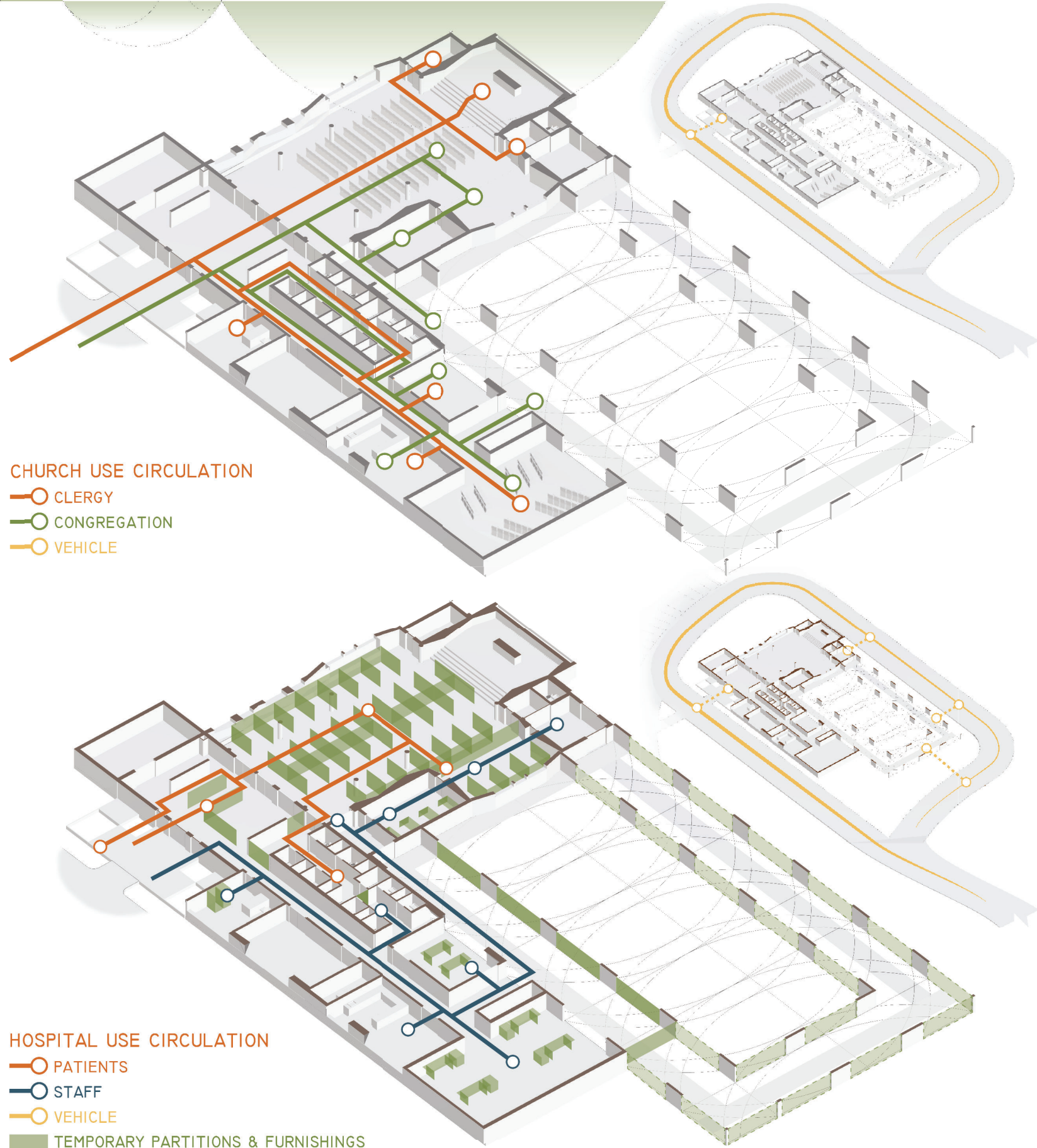
PLAN

CHURCH	AREA (SF)	%
NAVE (250 SEATS)	2400	23.1
CHANCEL	600	5.8
CHOIR / ORGAN	550	5.3
GATHERING / NARTHEX	1250	12.0
SUNDAY SCHOOL / CRY ROOM	450	4.3
VESTING SACRISTY	200	1.9
WORK SACRISTY	80	0.8
CHOIR ROOM	275	2.6
BIBLE STUDY	900	8.6
KITCHEN	400	3.8
RESTROOMS	500	4.8
	50	0.5
OFFICE	150	1.4
MECHANICAL	400	3.8
CIRCULATION	2050	19.7
STORAGE	155	1.5
TOTAL	10,410	100

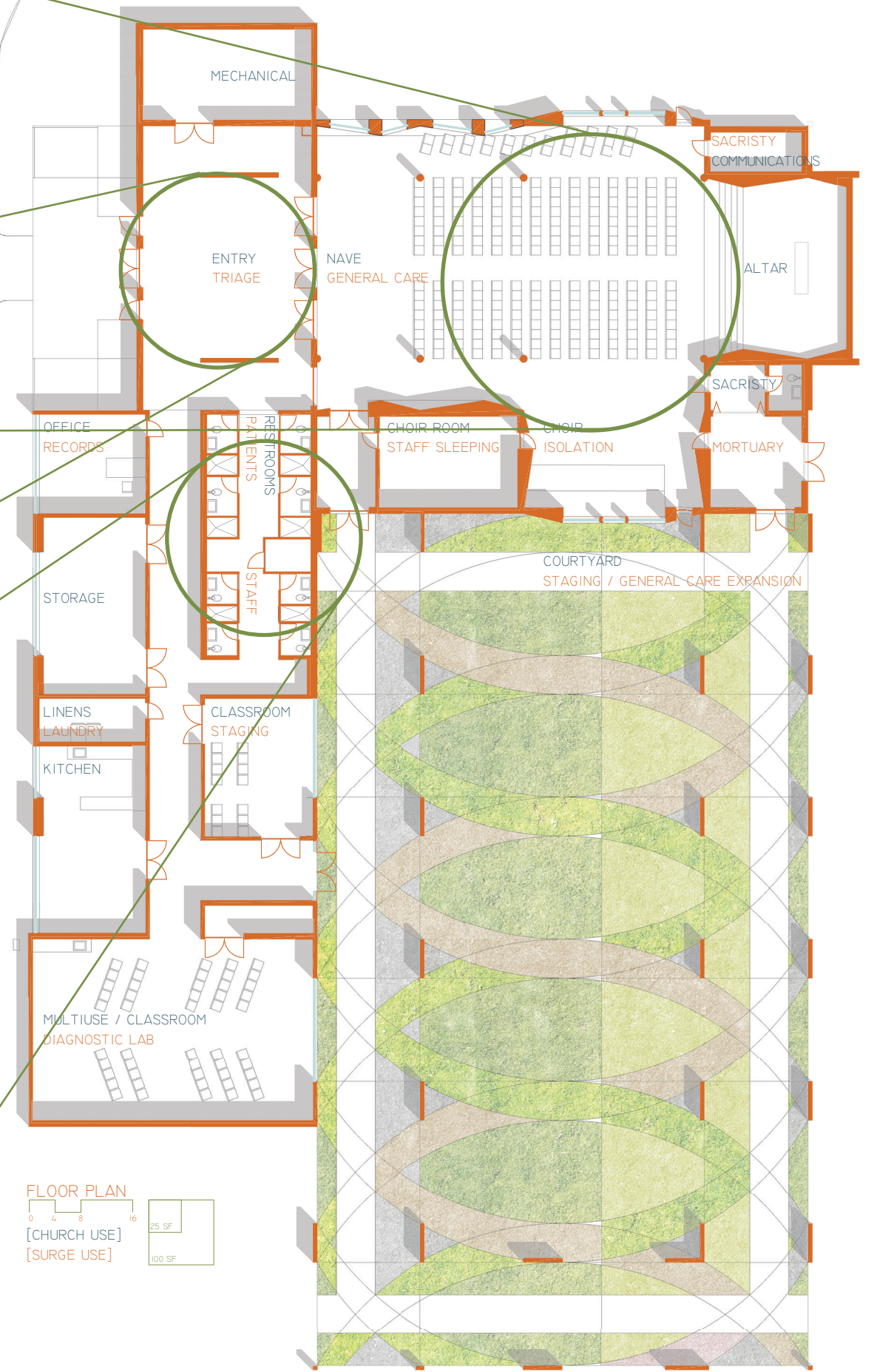
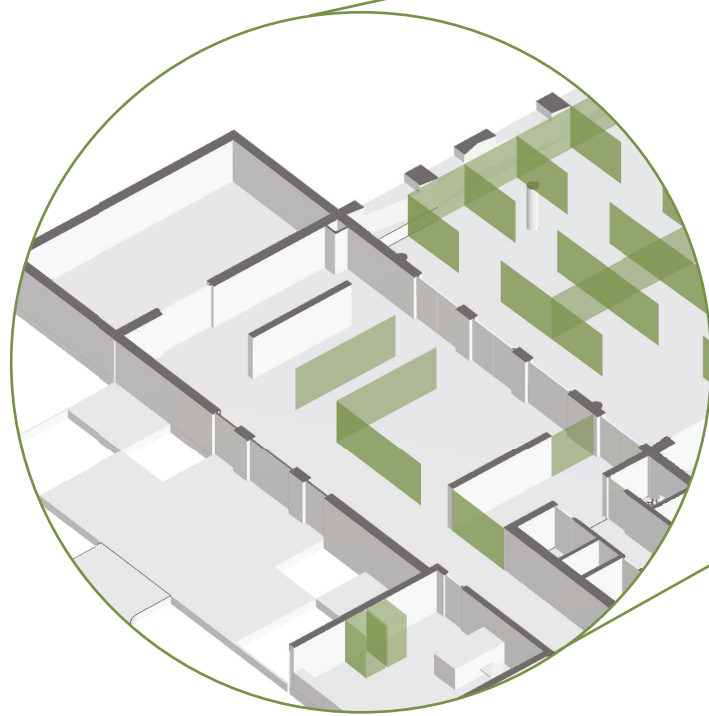
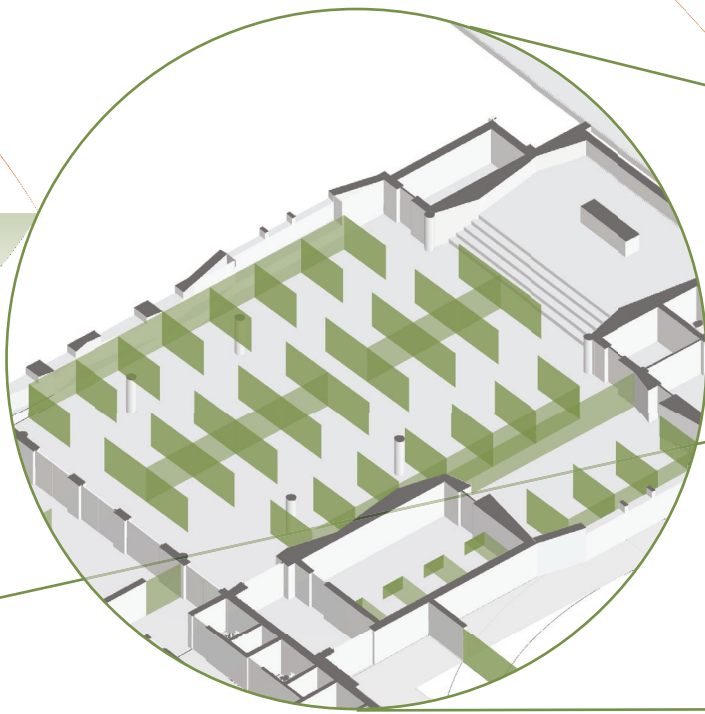
SURGE
GENERAL CARE (27 BEDS)
ISOLATION / I.C.U. (6 BEDS)
VOLUNTEER STAGING (500 SF)
RECEPTION / TRIAGE (750 SF)
STAFF STAGING
MORTUARY
COMMUNICATIONS
STAFF SLEEPING
LAB / DIAGNOSTICS
CAFETERIA
RESTROOMS / SHOWERS
LAUNDRY
RECORDS
MECHANICAL
STORAGE
STORAGE
TOTAL



FUNCTION



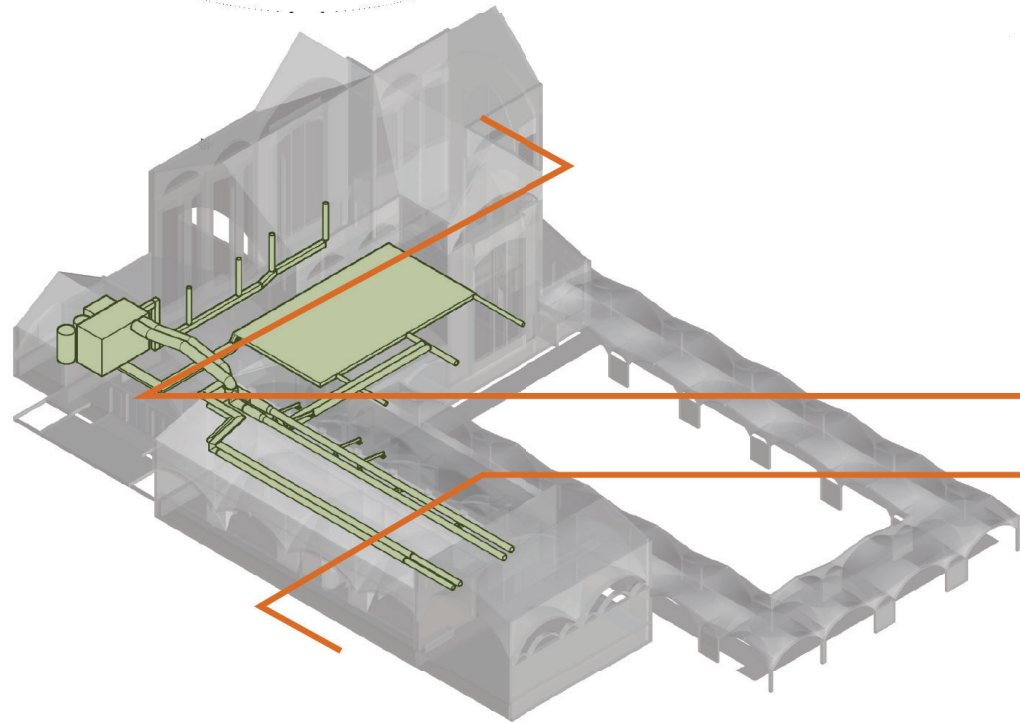
FUNCTION



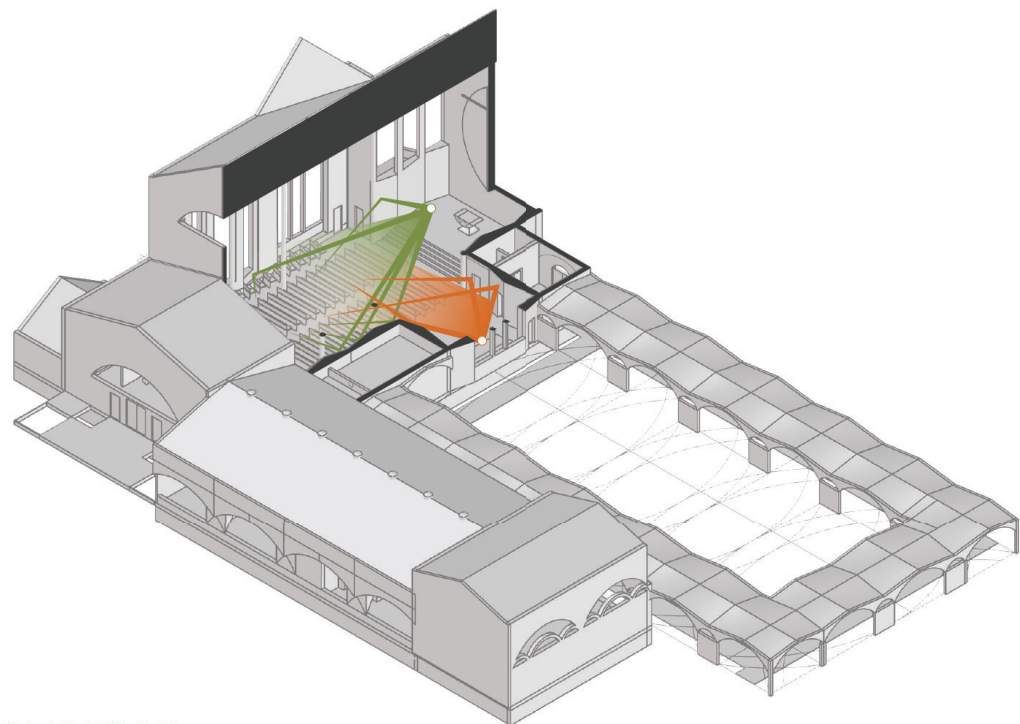
FLOOR PLAN
0 4 8 16
[CHURCH USE] 25 SF
[SURGE USE] 100 SF

SYSTEMS

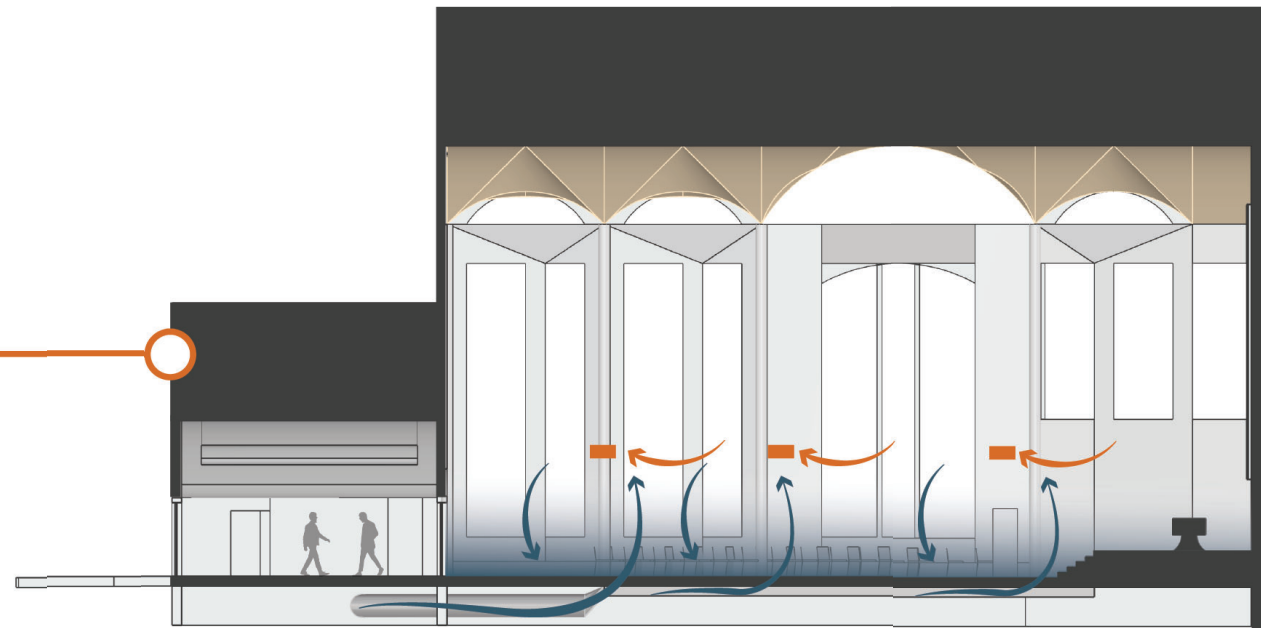
ENVIRONMENTAL CONTROL SYSTEMS



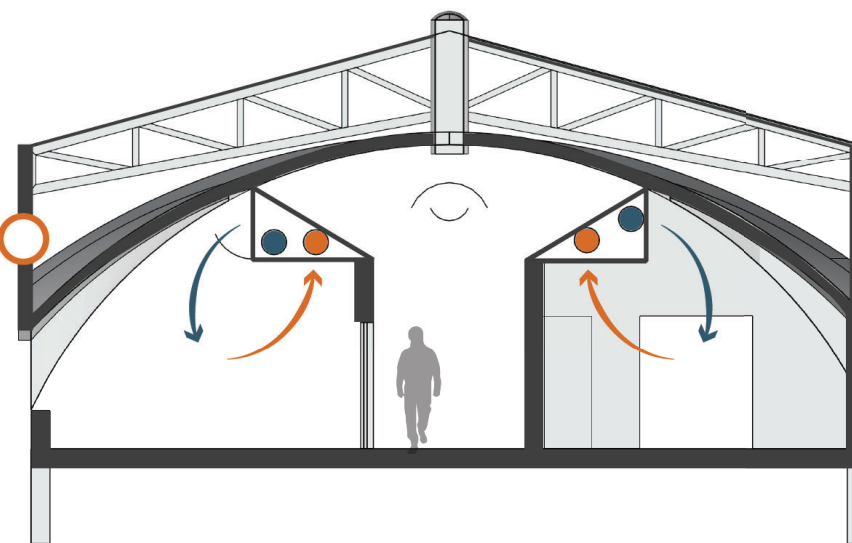
VENTILATION



ACOUSTICS



UNDERFLOOR AIR DISTRIBUTION

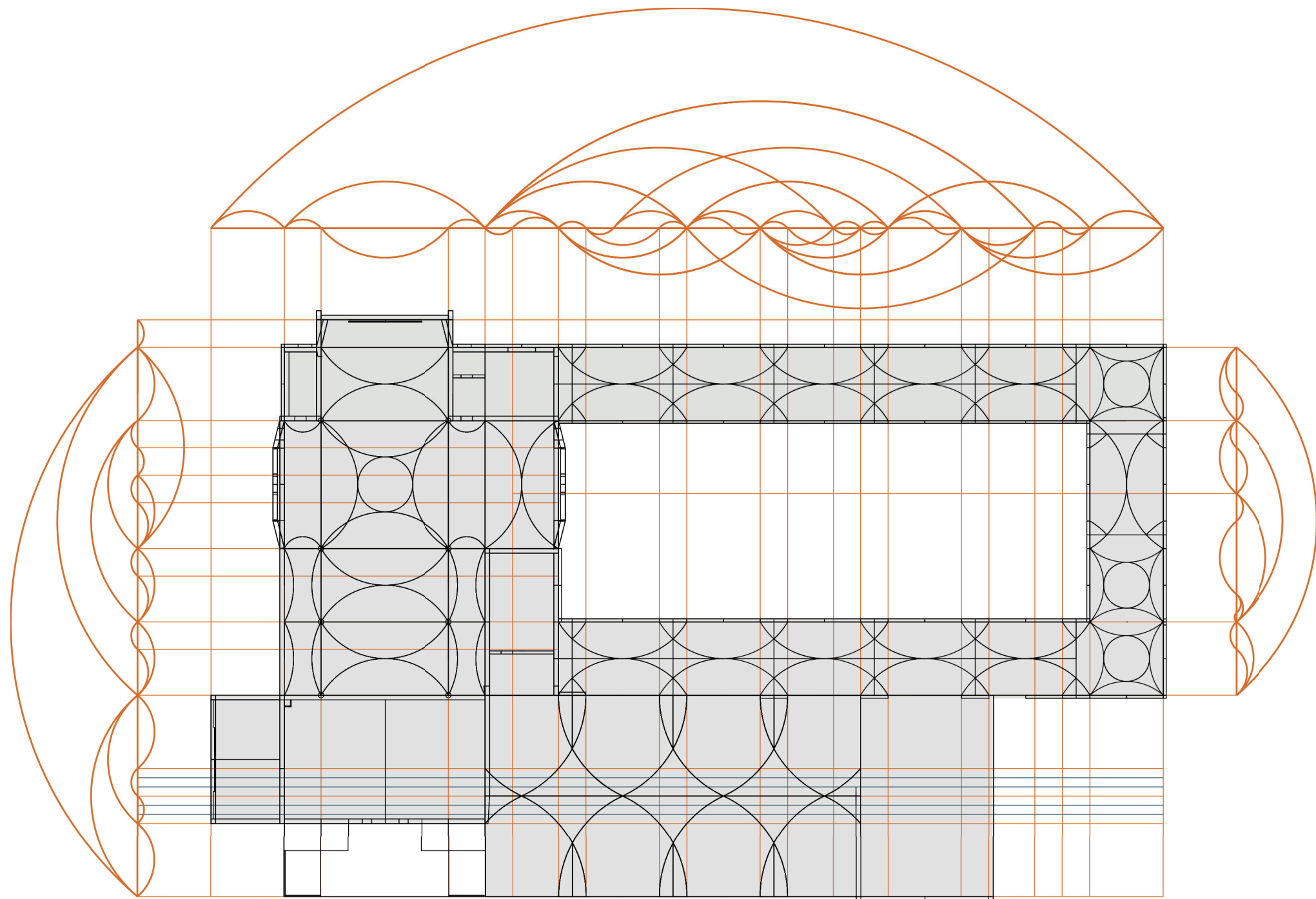
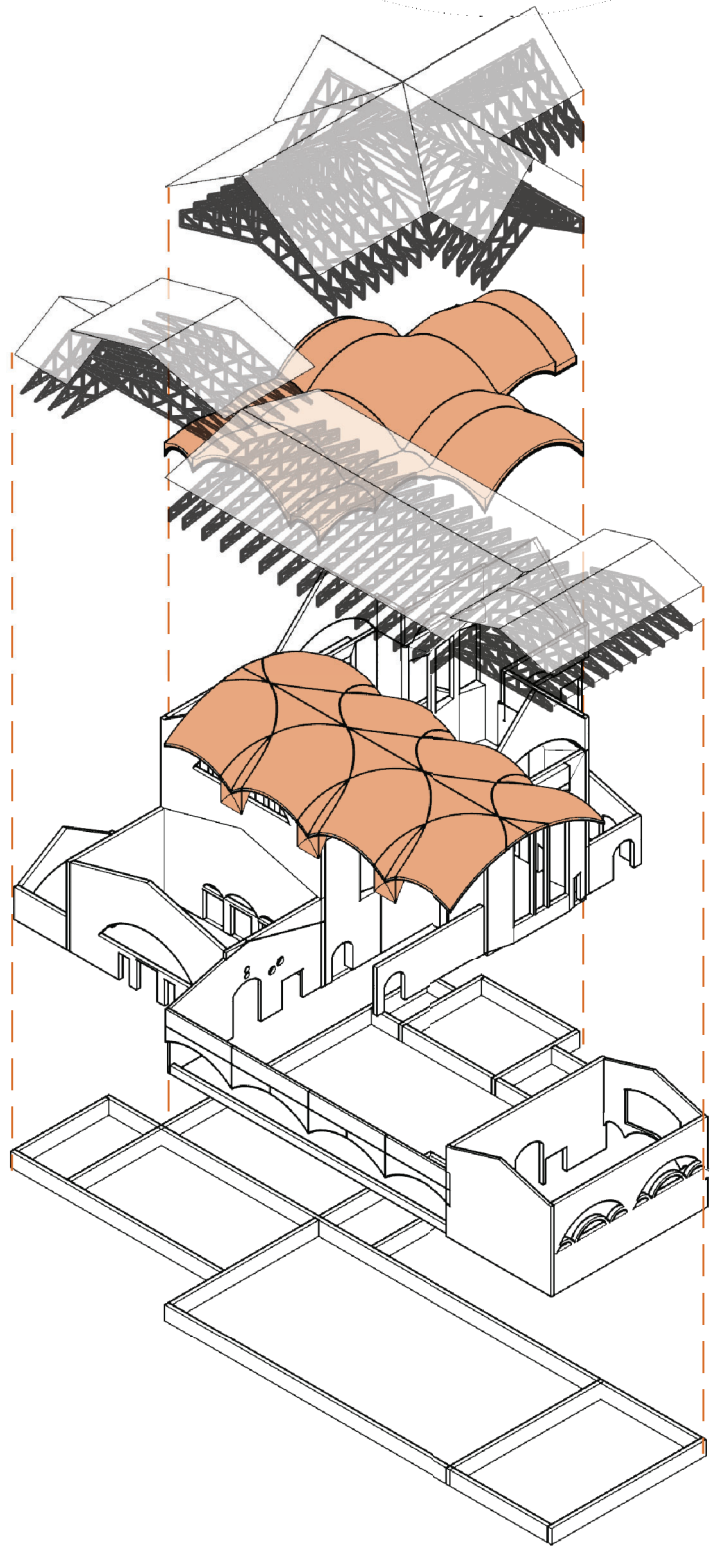


SOFFIT DISTRIBUTION

- RETURN
- SUPPLY

STRUCTURE

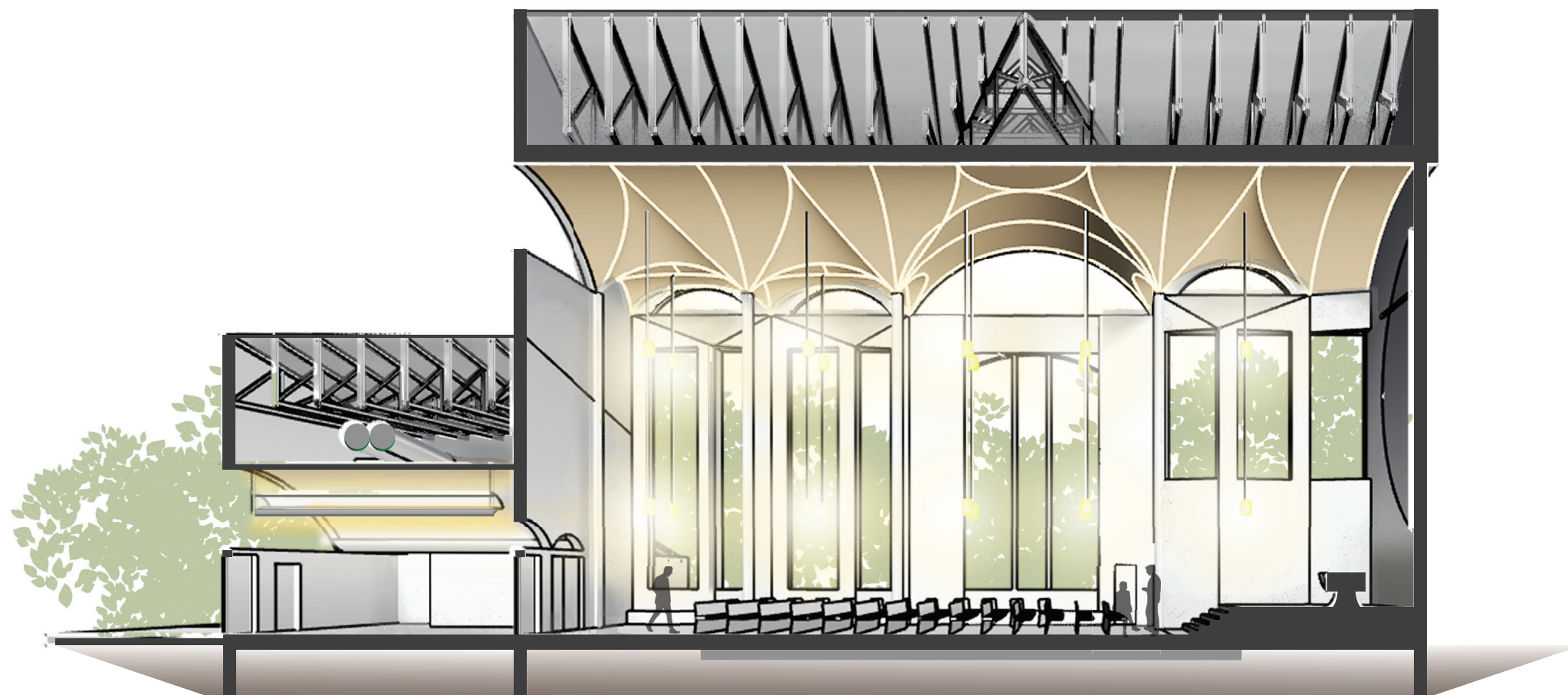
STRUCTURE: MAIN WIND FORCE RESISTING SYSTEM



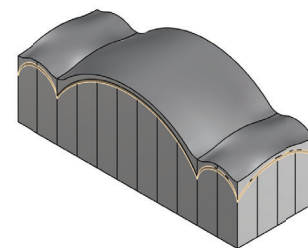
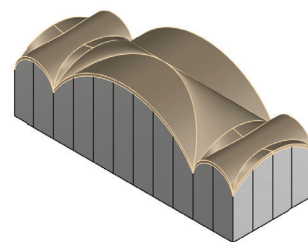
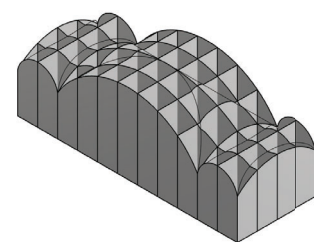
VAULTING PLAN



STRUCTURE



SECTION A
0 4 8 16



STRUCTURE



SECTION B
0 4 8 16







