

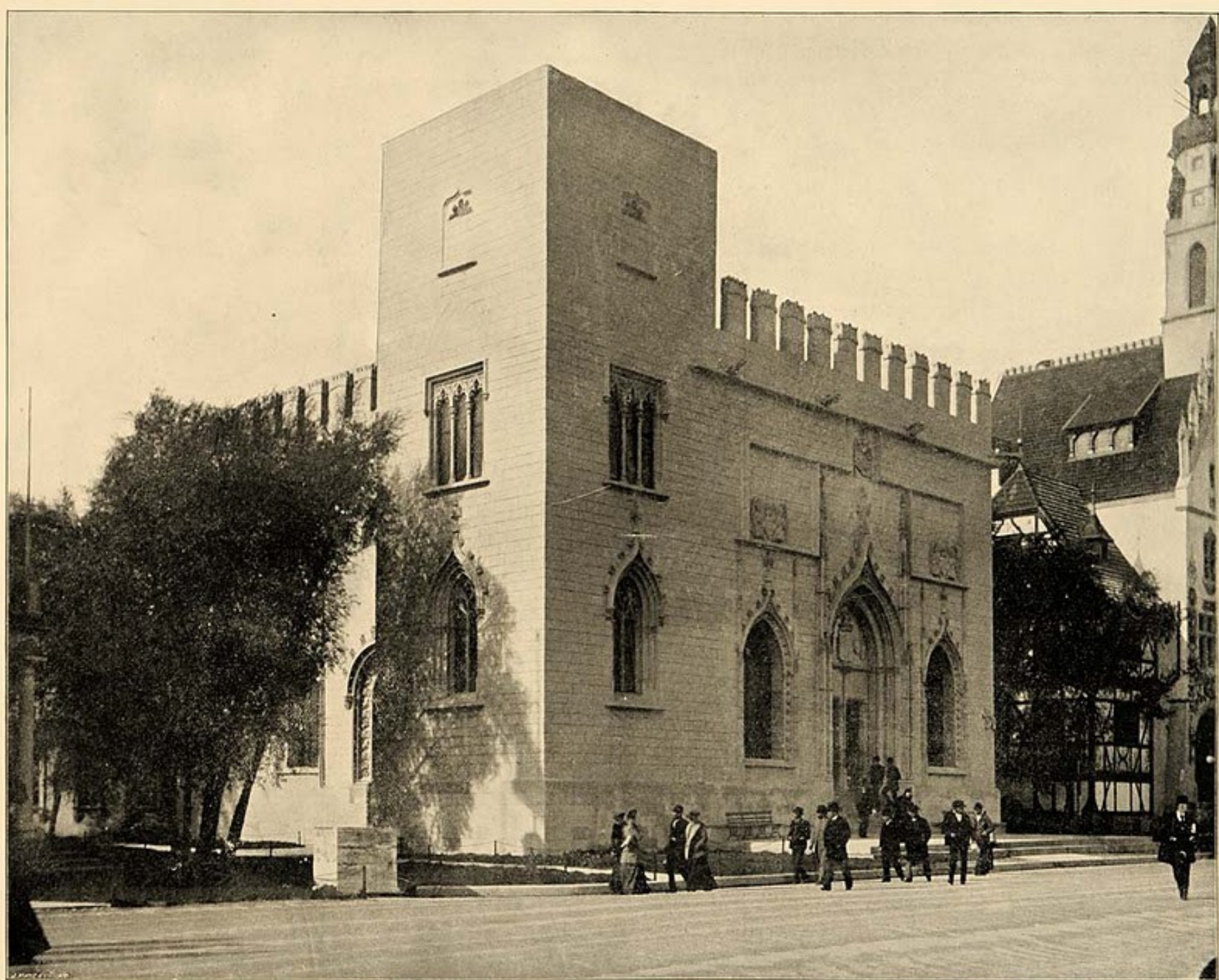


Guastavino Structural Tile Vaulting in Pittsburgh

Lecture 3: Geometric Innovations in Architecture

OLLI at PITT (2021.03.30)
Matthew Schlueb, Instructor





























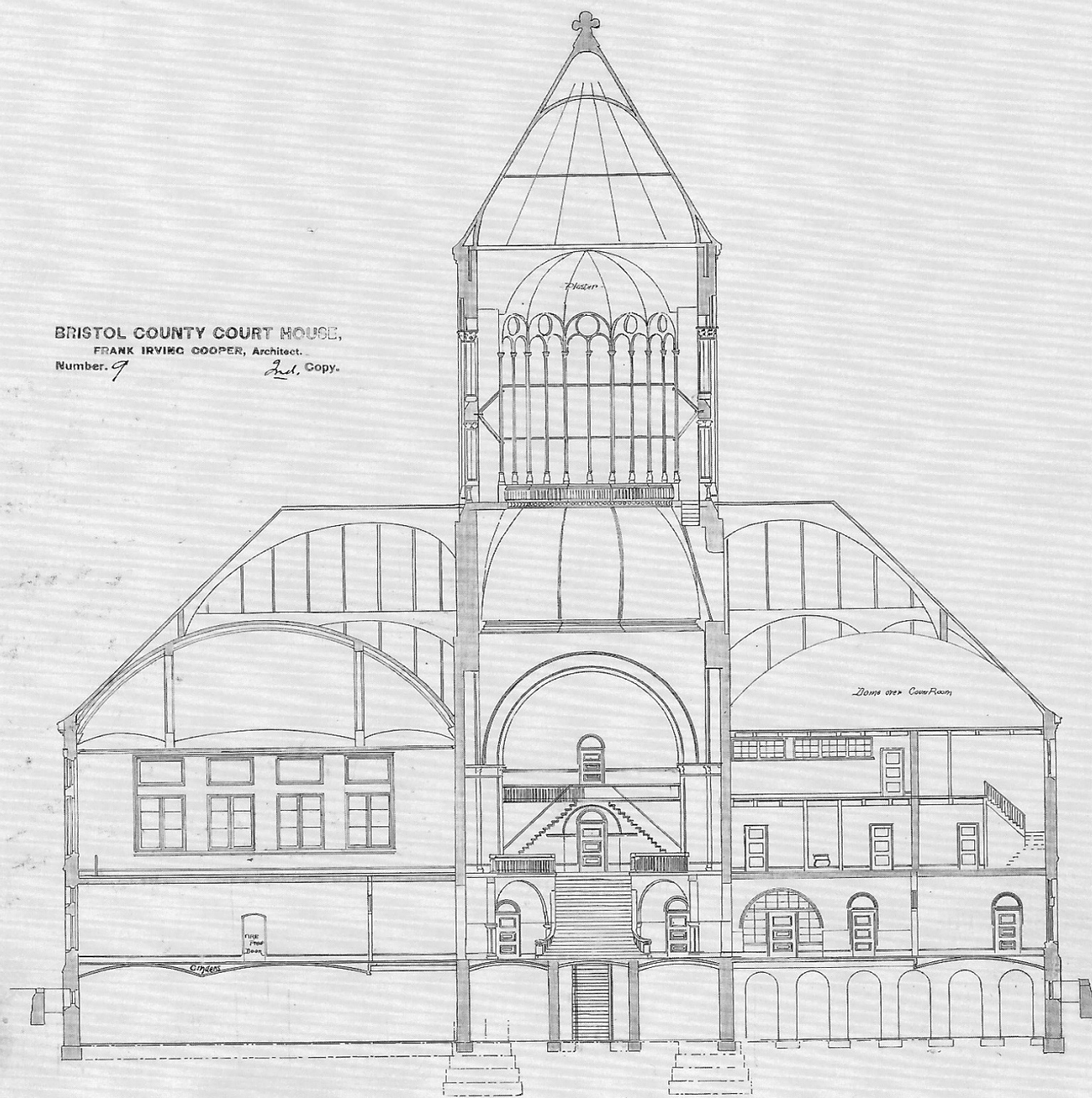








BRISTOL COUNTY COURT HOUSE,
FRANK IRVING COOPER, Architect.
Number. 7 *Arch. Copy.*



LONGITUDINAL SECTION

SCALE IN FT.

































































TWT











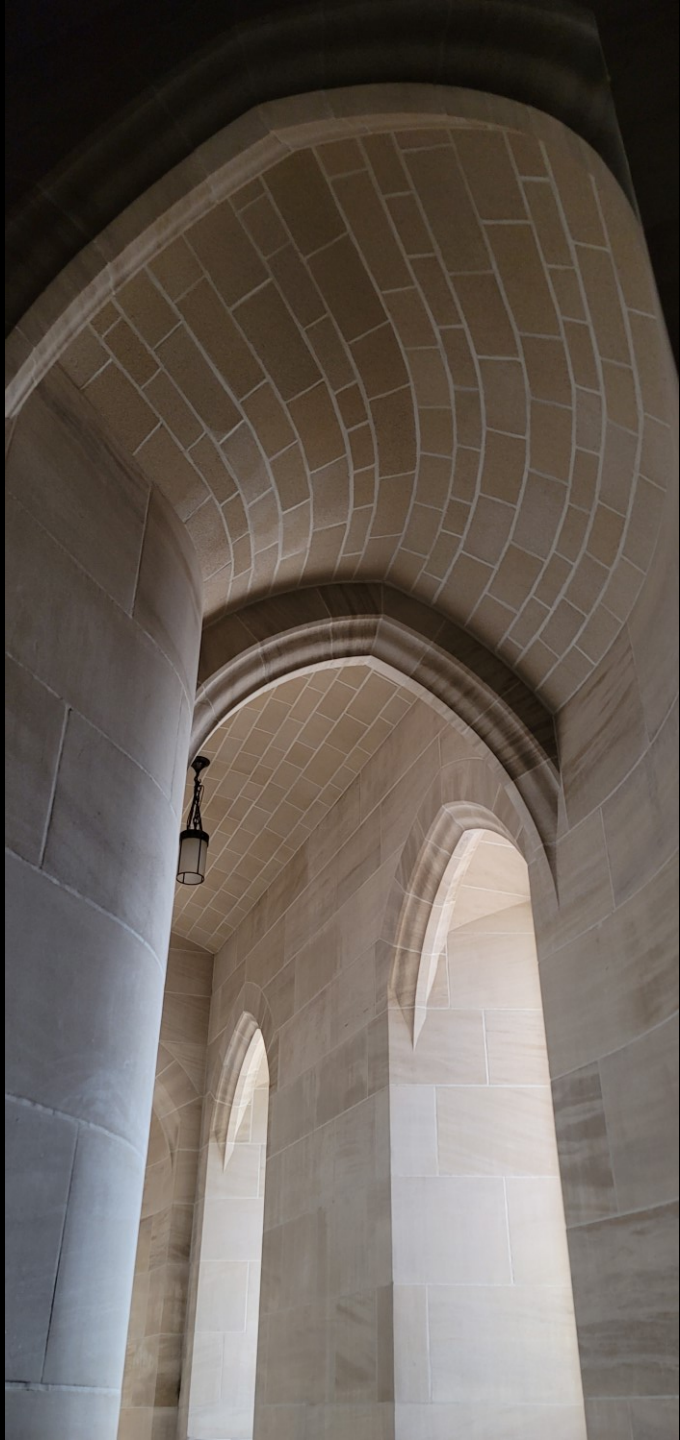












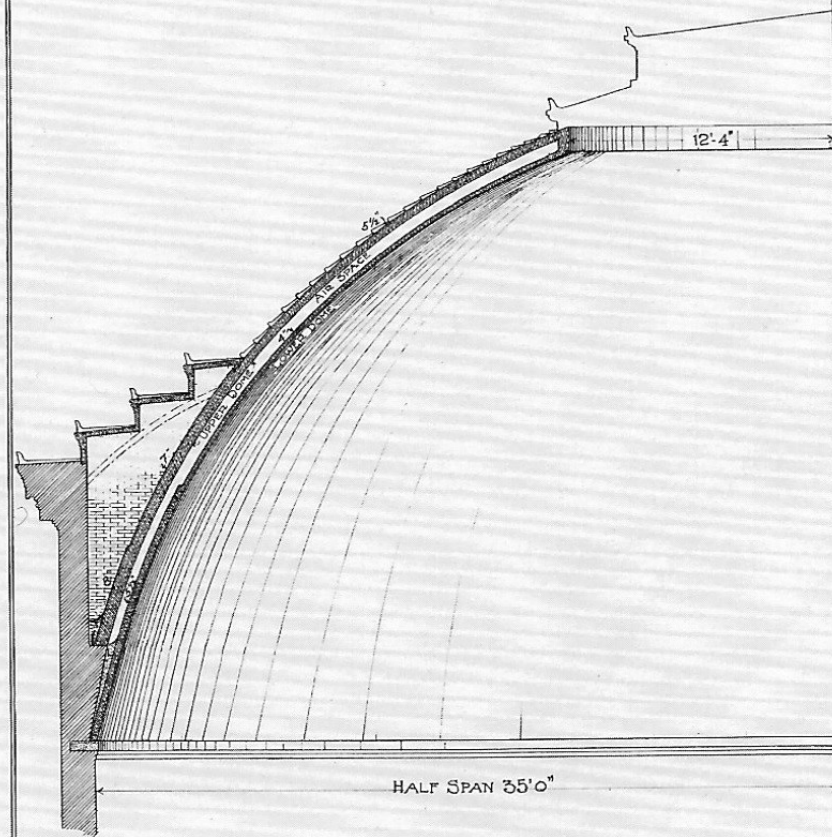






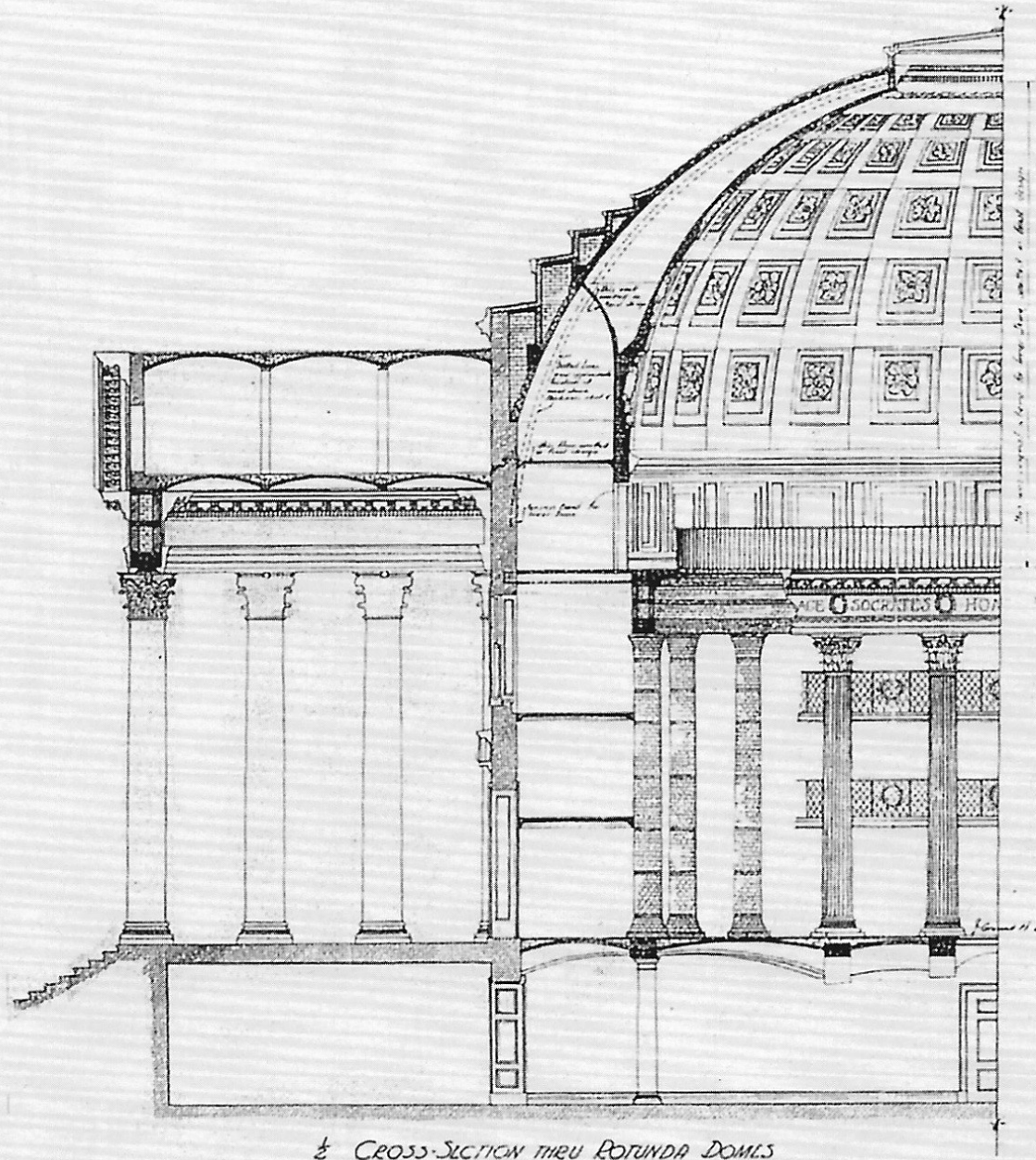
GUASTAVINO DOME, SPAN 70 FEET.

SCALE $\frac{3}{16}'' = 1$ FOOT.

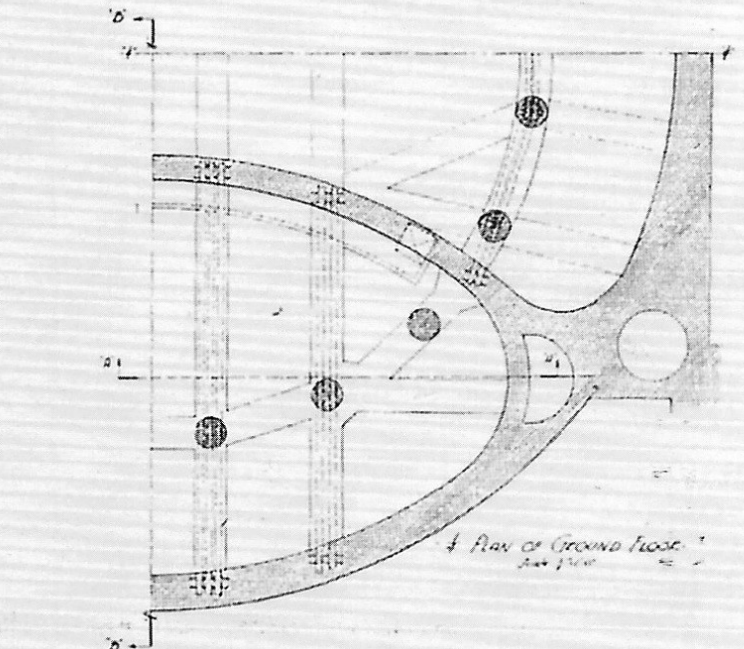


APPROVED IN 1897 FOR LIBRARY UNIVERSITY OF NEW YORK.

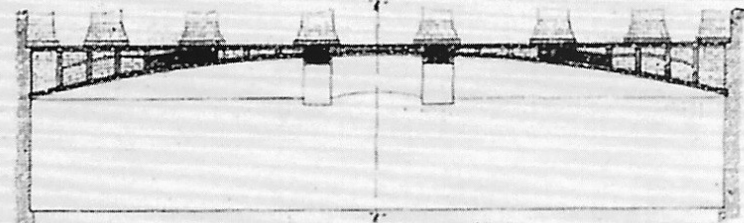
R. GUASTAVINO CO.
FUBBER BUILDING
New York City



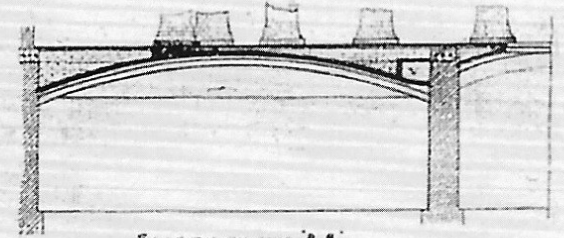
1/2 CROSS-SECTION THRU ROTUNDA DOMES
 SHOWING GENERAL SCHEME FOR INNER DOME AND INNER DOME AS
 CONSTRUCTED AS SHOWN BY DOTTED LINES. Scale 1/4" = 1'-0"



PLAN OF GROUND FLOOR
 Scale 1/4" = 1'-0"



SECTION ON LINE 'A-A'
 Scale 1/4" = 1'-0"



SECTION ON LINE 'B-B'
 Scale 1/4" = 1'-0"

ROTUNDA DOMES
 UNIVERSITY OF VIRGINIA
 CHARLOTTESVILLE, VA. W. E. W. WARD & PARTNERS

REPRODUCED FROM THE ARCHITECTURAL RECORD
 R. GUASTAVINO
 550 FIFTH AVENUE
 NEW YORK CITY



4241. Capitol, East View, St. Paul, Minn.











Please turn off your cell phones. No audio or visual recording is permitted.

REVEREND JAMES EARL RAY

EXIT





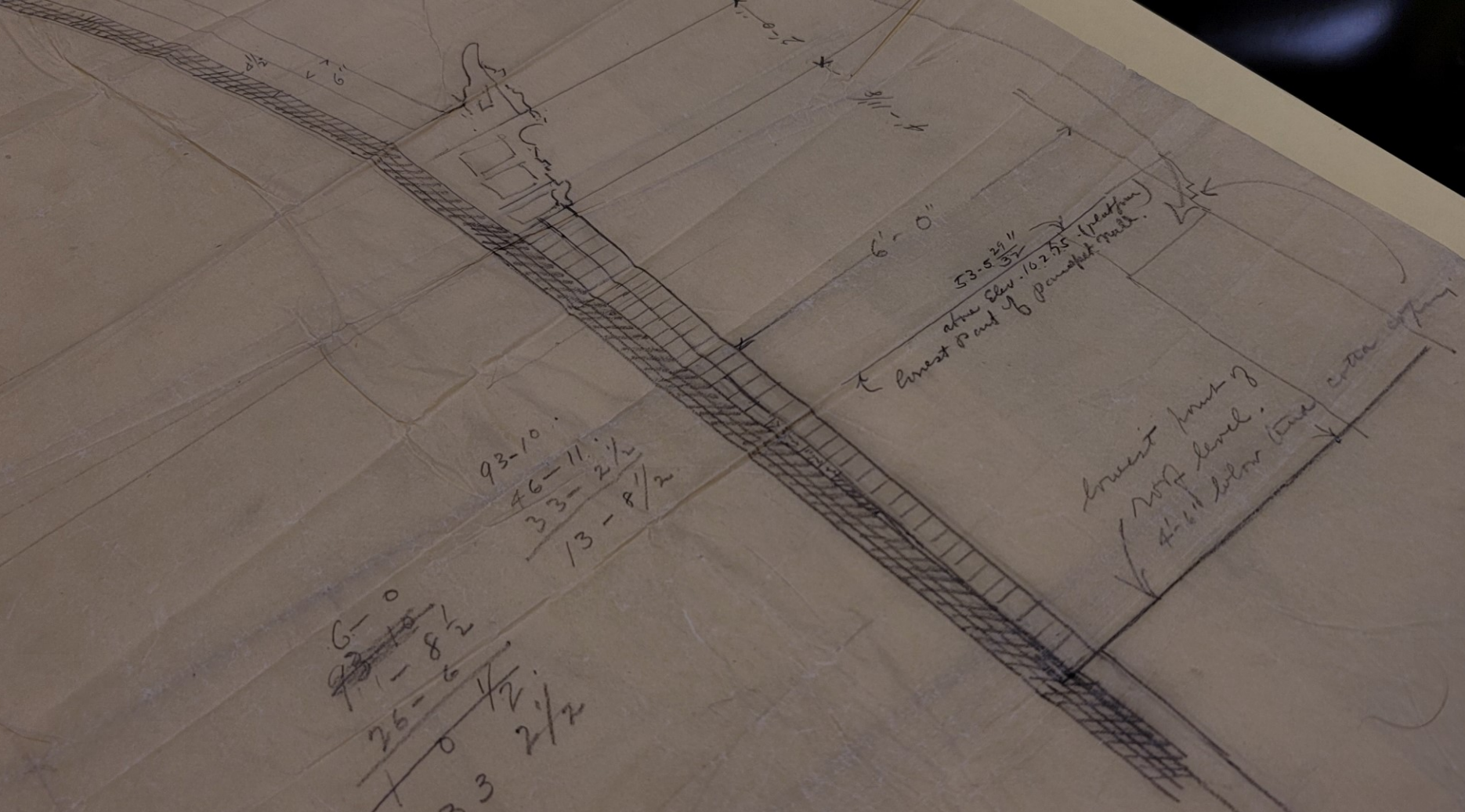


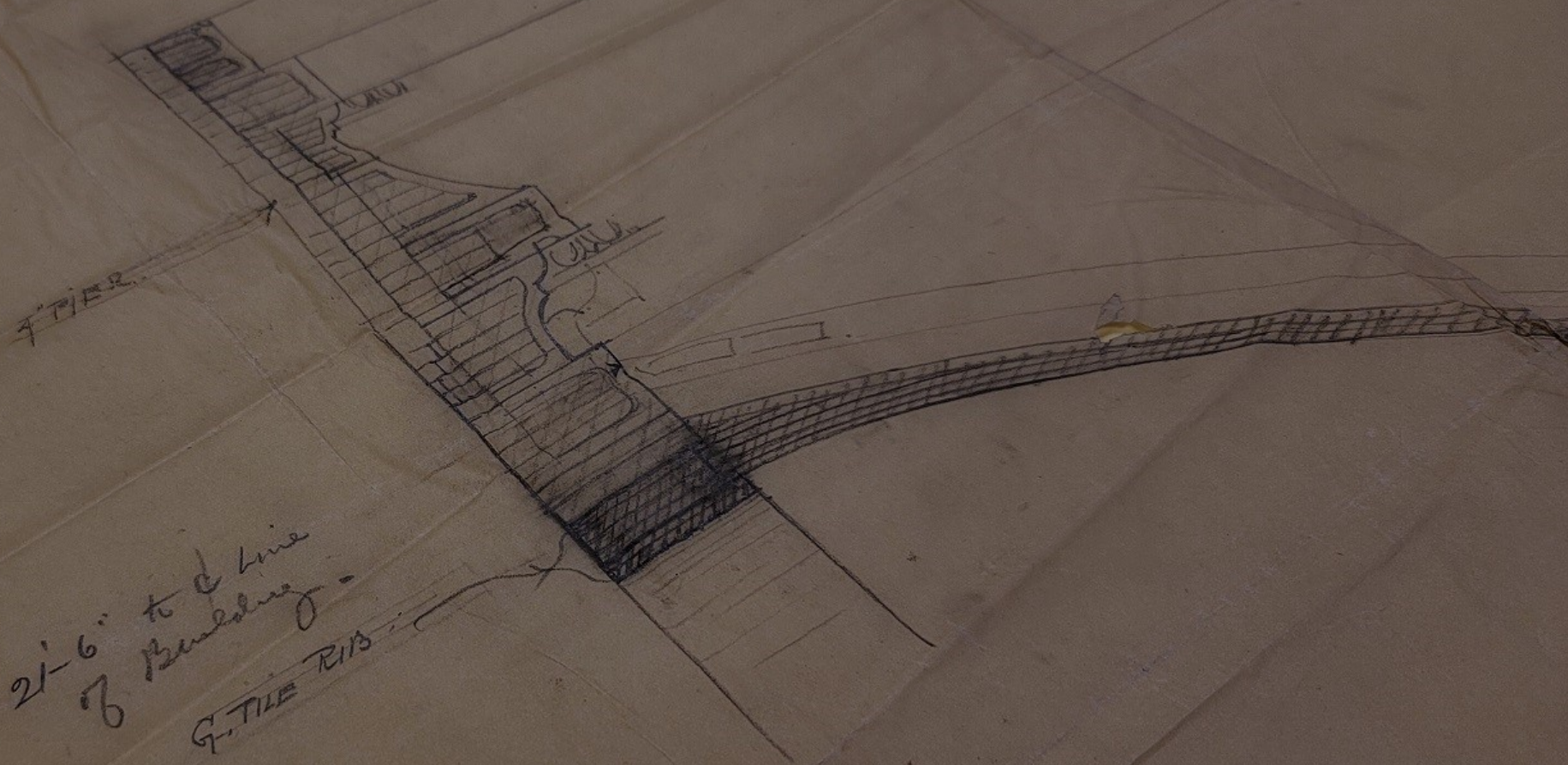
$$\begin{array}{r} 93-10 \\ 46-11 \\ \hline 33-8\frac{1}{2} \\ 13-8\frac{1}{2} \end{array}$$

$$\begin{array}{r} 6-0 \\ 26-8\frac{1}{2} \\ \hline 33 \\ 0\frac{1}{2} \\ 2\frac{1}{2} \end{array}$$

6'-0"
 53.529"
 above Elev. 162.55 (platform)
 lowest part of parapet wall.

lowest part of
 roof level.
 4'-0" below (line)





2'-6" to line
of Building
9" TILE RIB











PLAQUE ON THE WALL













































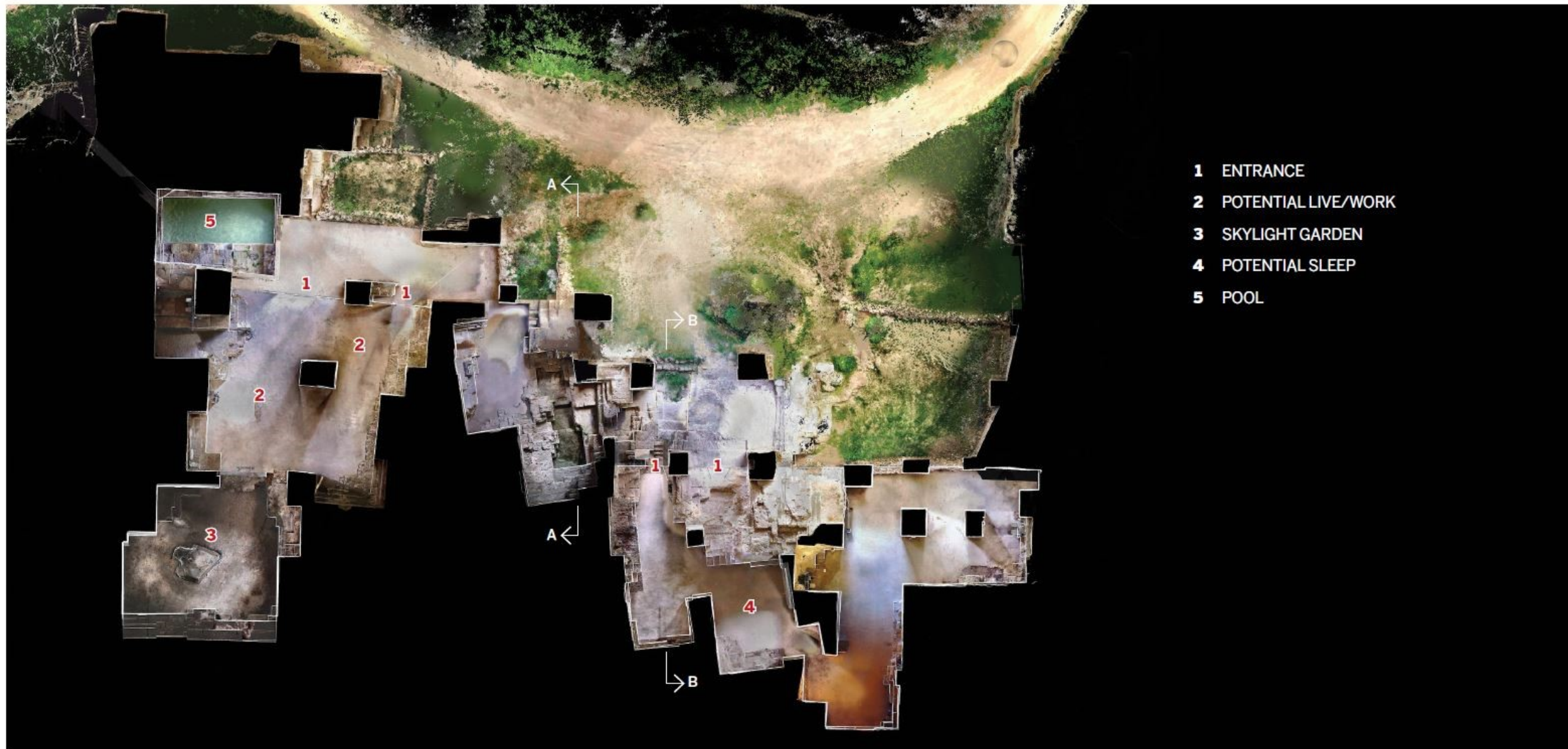






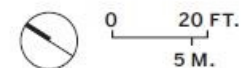


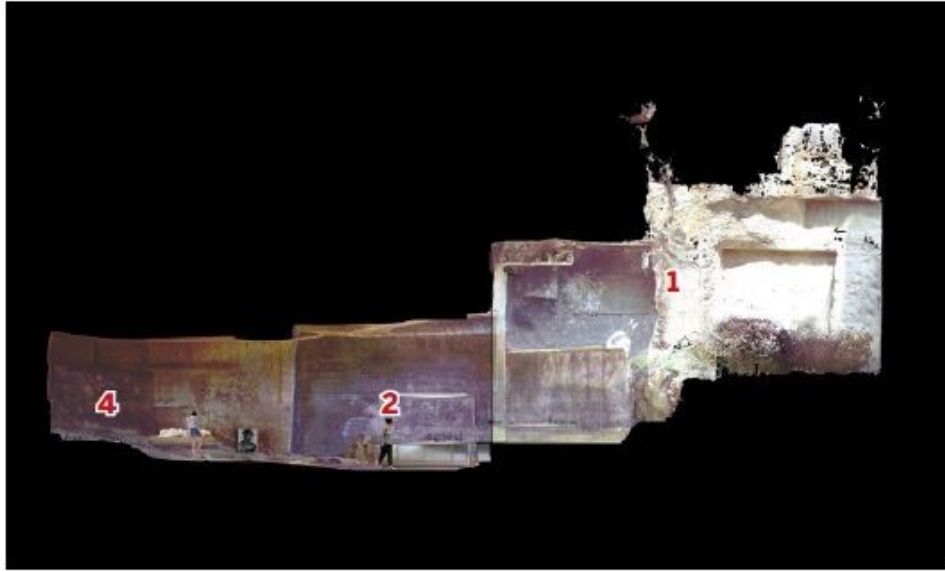




- 1 ENTRANCE
- 2 POTENTIAL LIVE/WORK
- 3 SKYLIGHT GARDEN
- 4 POTENTIAL SLEEP
- 5 POOL

THE PLAN AND BOTH SECTIONS WERE CREATED USING 3-D LIDAR LASER-SCANNING TECHNOLOGY





SECTION A-A



SECTION B-B

0 20 FT.
5 M.