



**ARCHITECTURE THAT
TRANSFORMS HISTORY:**

REFRAMING THE BIRTHPLACE
OF THE ATOMIC BOMB
FOR A MORE CRITICAL FUTURE

Tyler Gefroh



memory







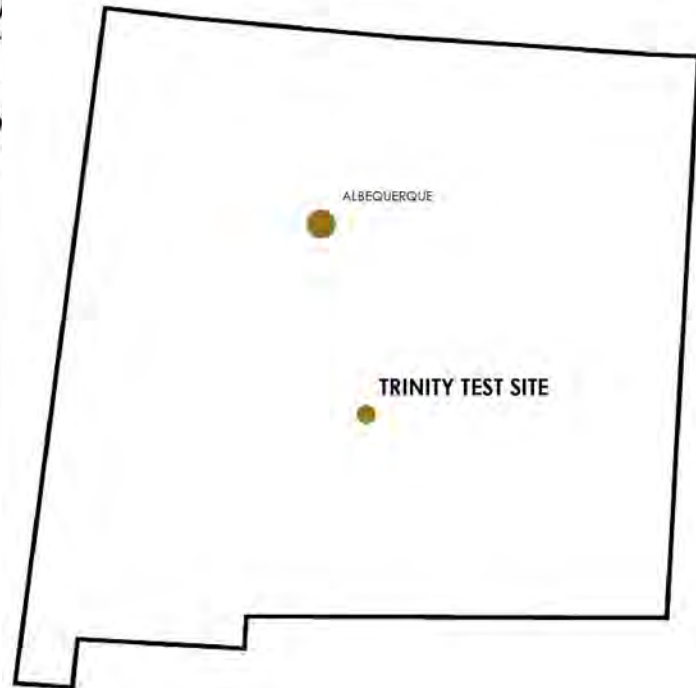
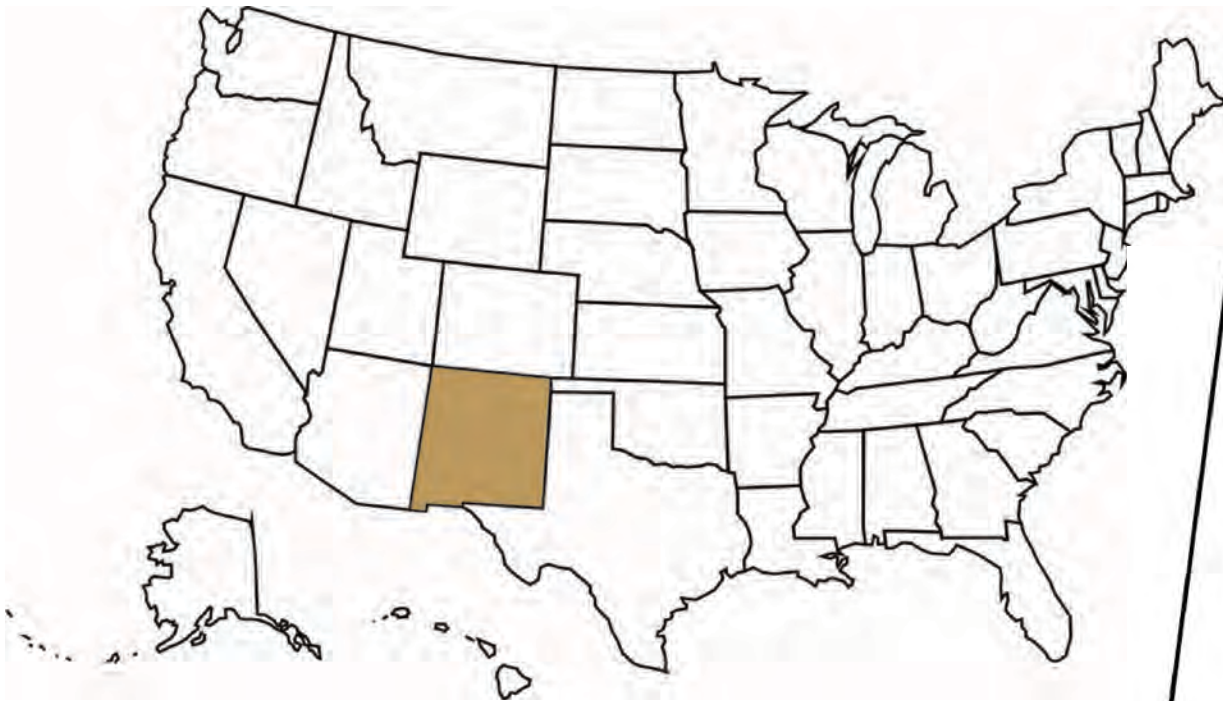
memory = life



forgetting = death



Birthplace of the atomic bomb







Hiroshima after bomb



Countries with nuclear weapons



(Image: Getty/Express)

Sources: Arms Control Association, Federation of American Scientists, International Panel of Fissile Materials, U.S. Department of Defense, U.S. Department of State and Stockholm International Peace Research Institute.





TRINITY SITE
WHERE
THE WORLD'S FIRST
NUCLEAR DEVICE
WAS EXPLODED ON
JULY 16, 1945

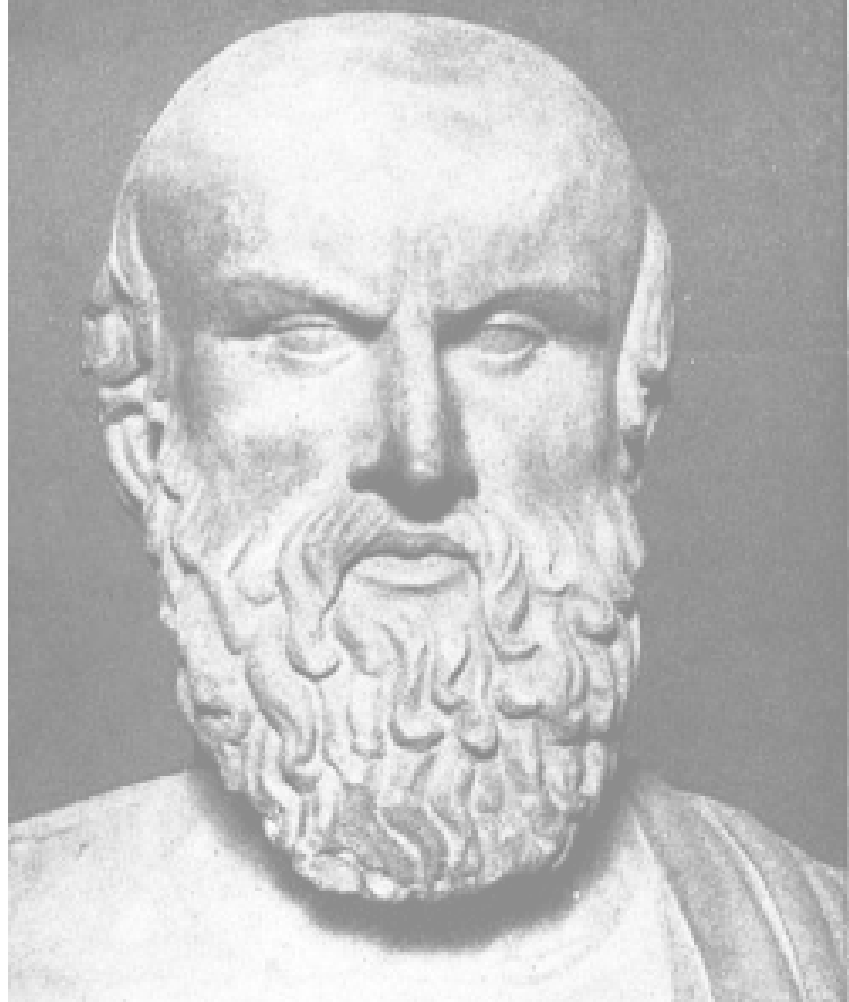
ERECTED 1965
WHITE SANDS MISSILE RANGE
J. FREDERICK THORLIN
MAJOR GENERAL U.S. ARMY
COMMANDING





mnemonics

- the study and development of systems for improving and assisting the memory.



Simonides



Simonides outside of collapsing house





Officers' mess
R.A.F. ...
mess
Ed



I got back
I felt very lonely
I realized that you mean
to me. I loved
again. It was nice;



It?
We had a party
the mess at ... after dinner
celebrate our going, and by five
o'clock when we left we were
very happy!

I should be able
to get to ... from here, at



Monumental

Antiquarian

Critical



Victory Column, Berlin



Ole Worm's cabinet of curiosities, from *Museum Wormianum*, 1655







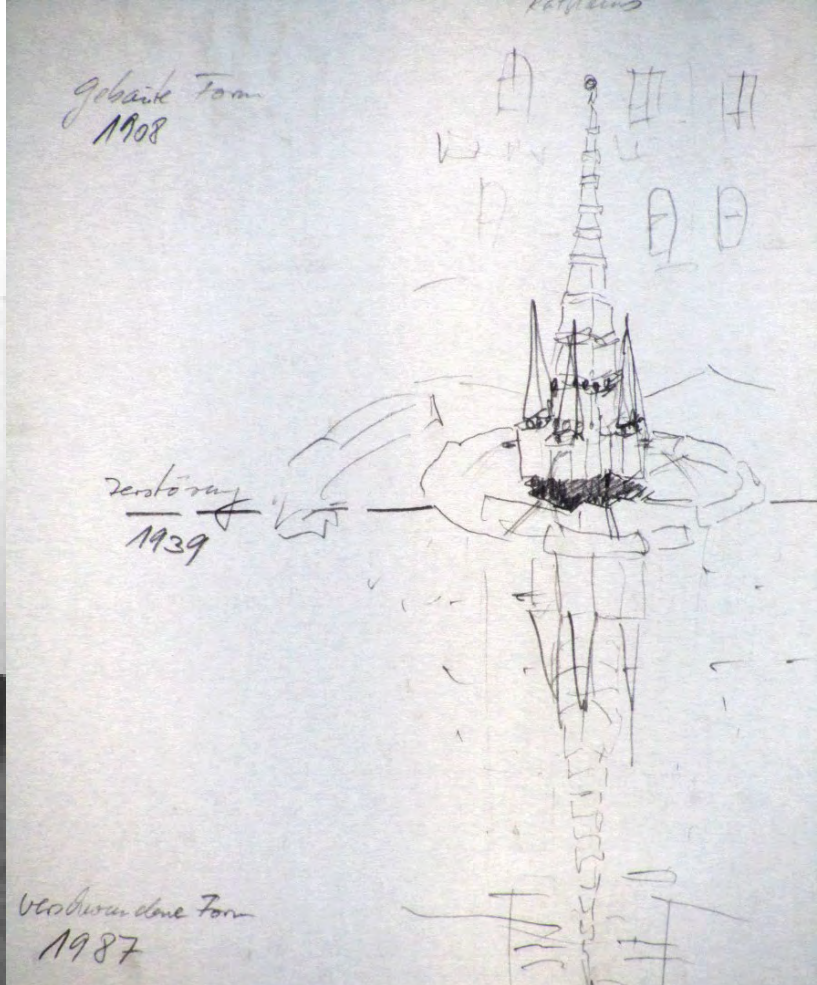
Cast mold of “negative form” Fountain sitting upright



“Negative Form”



Model of “negative form” Fountain



Sketch of “negative form” Fountain



Jewish Museum, Berlin



STRETCHING



STRETCHING



CUTTING



ROTATE



SQUEEZE



DISTORT AND FOLD









Artefact



Artefact

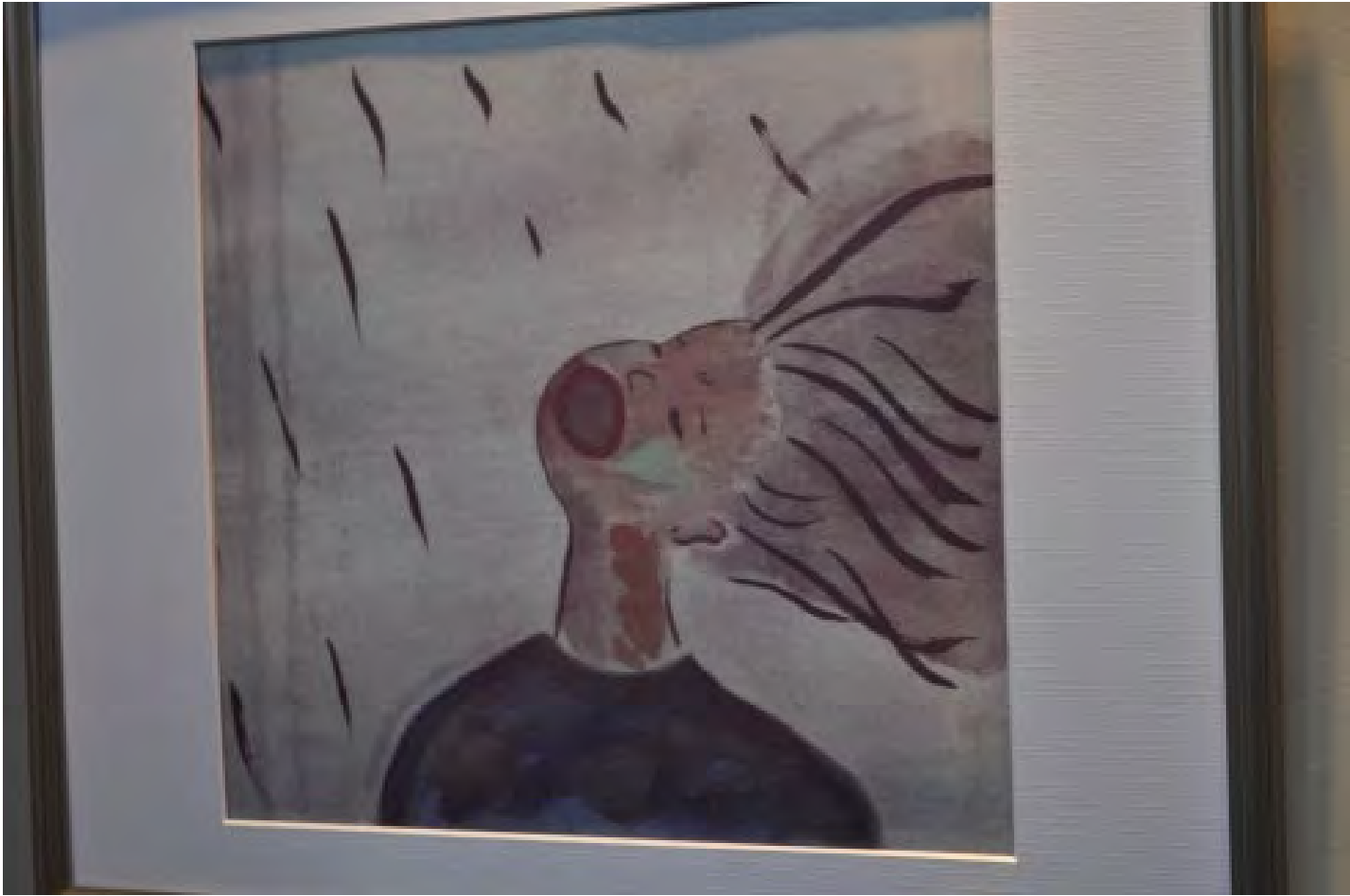


Young Sadako Sasaki









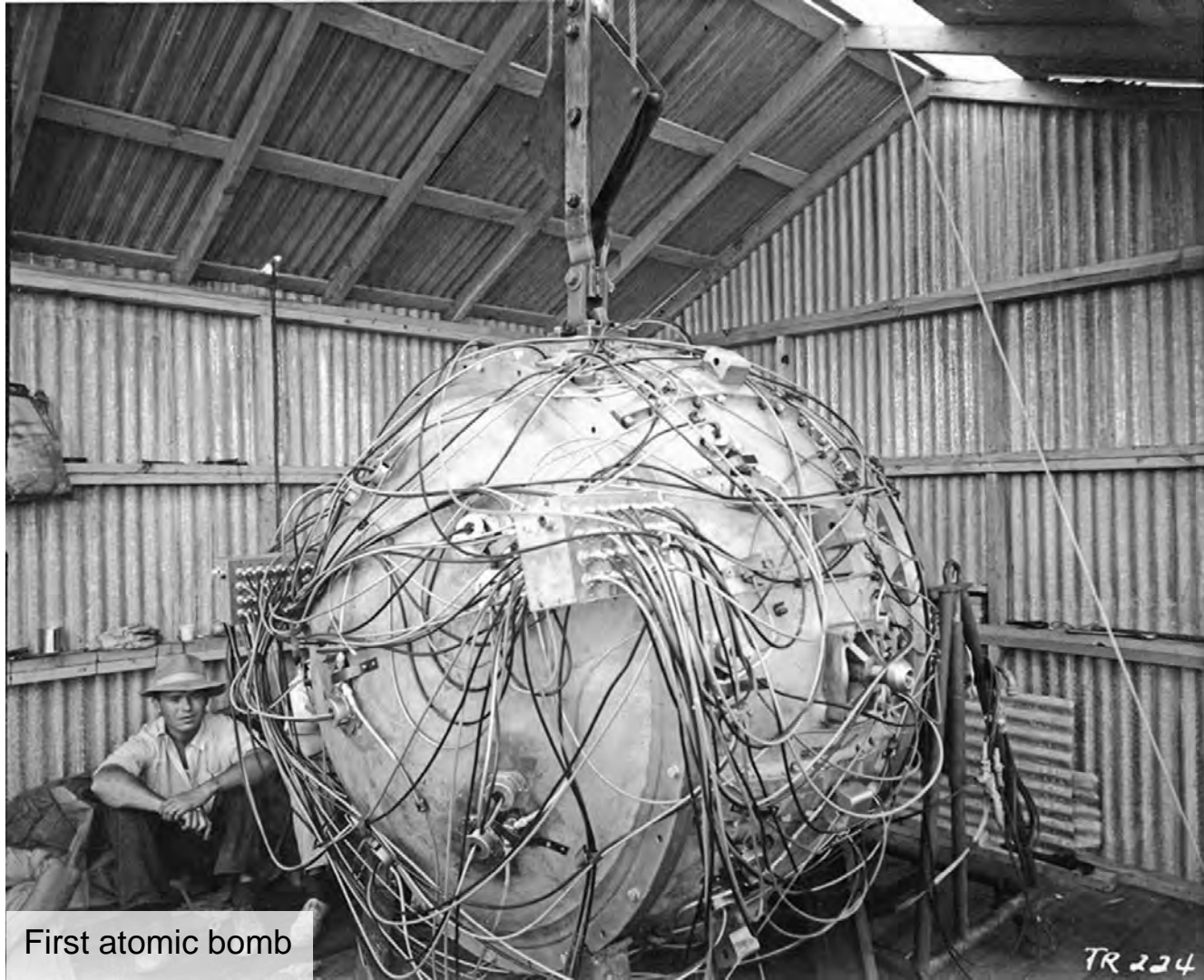






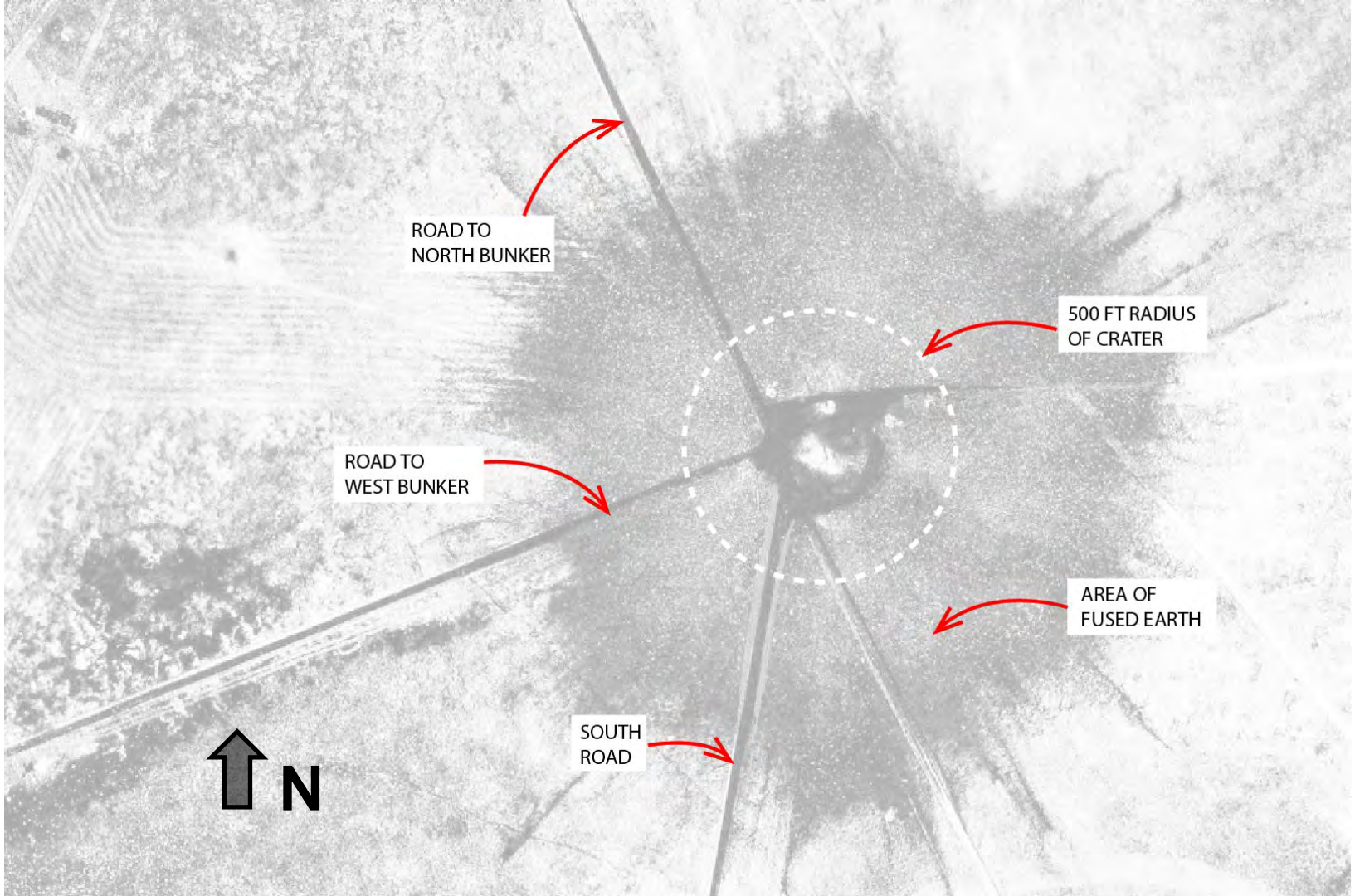






First atomic bomb

TR 224

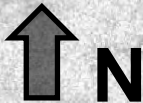


ROAD TO
NORTH BUNKER

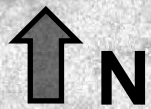
500 FT RADIUS
OF CRATER

ROAD TO
WEST BUNKER

AREA OF
FUSED EARTH

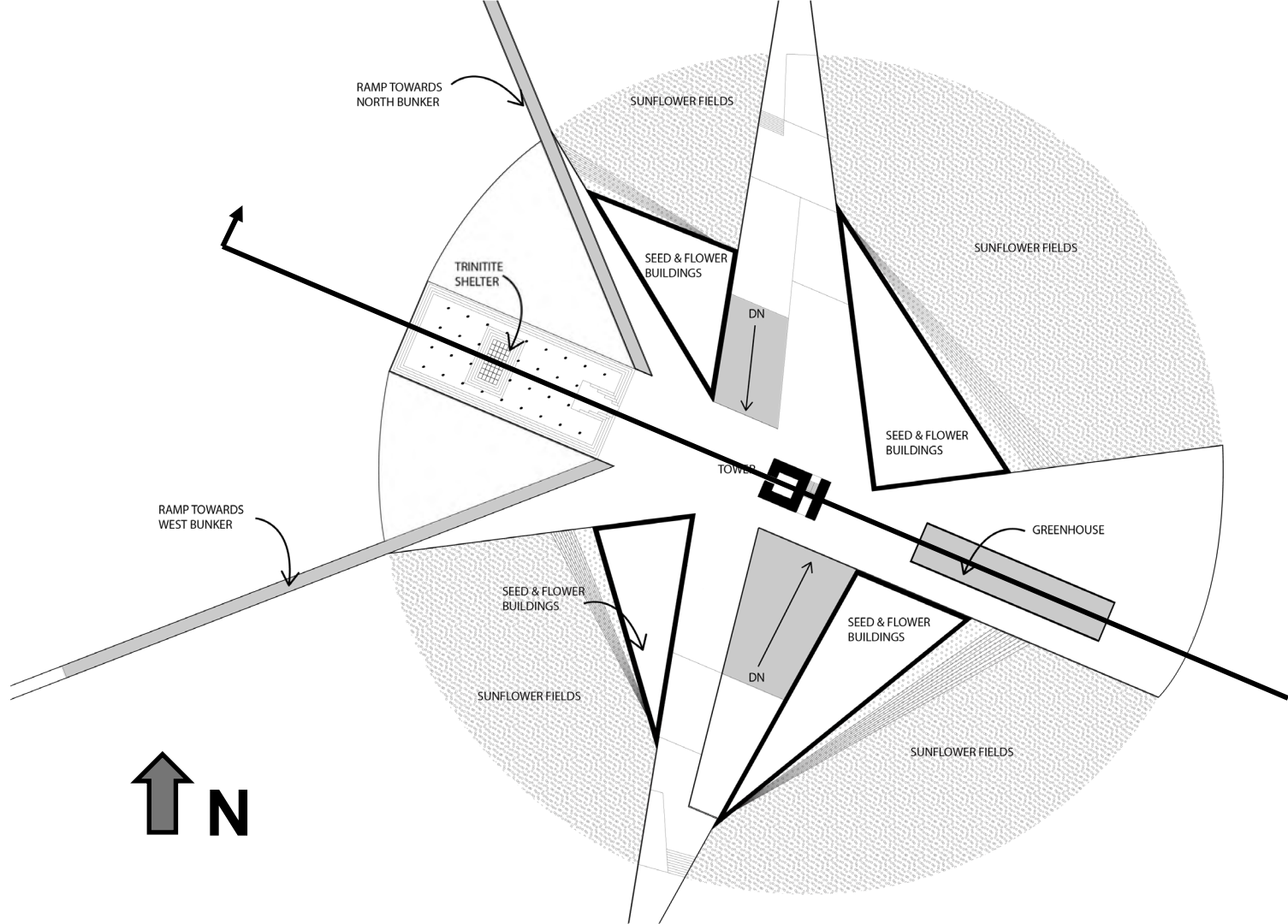


SOUTH
ROAD

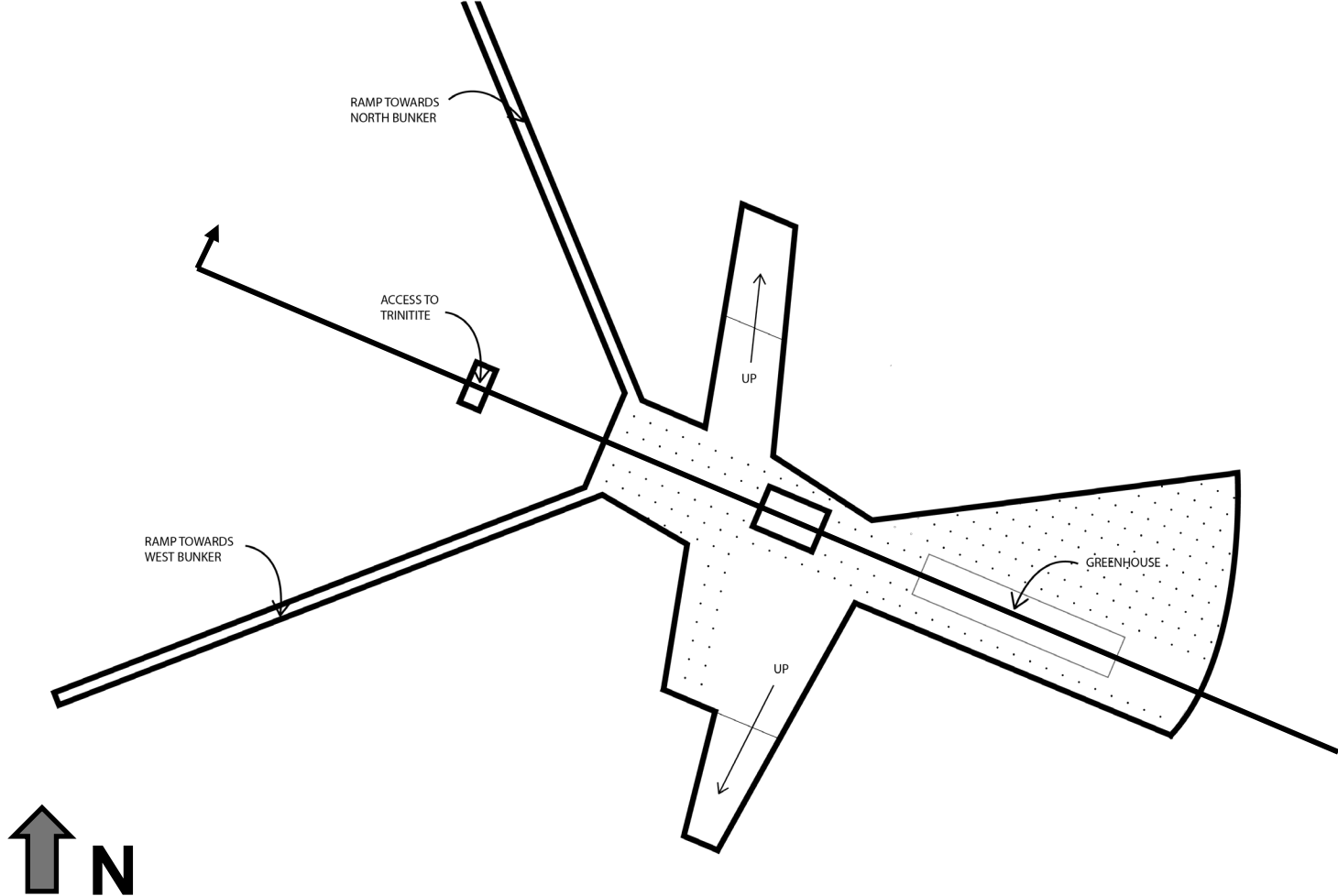




LEVEL 1



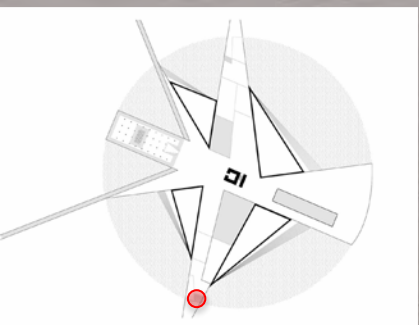
LOWER LEVEL

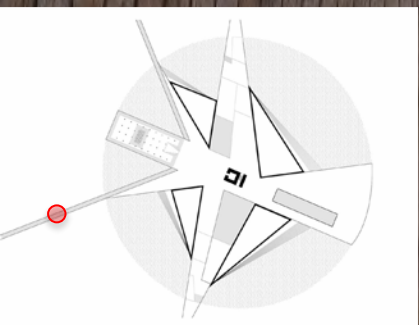


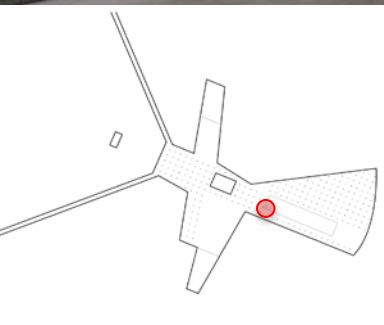
SECTION

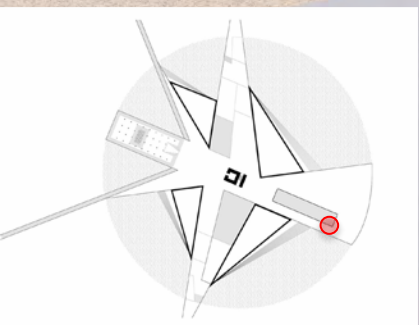
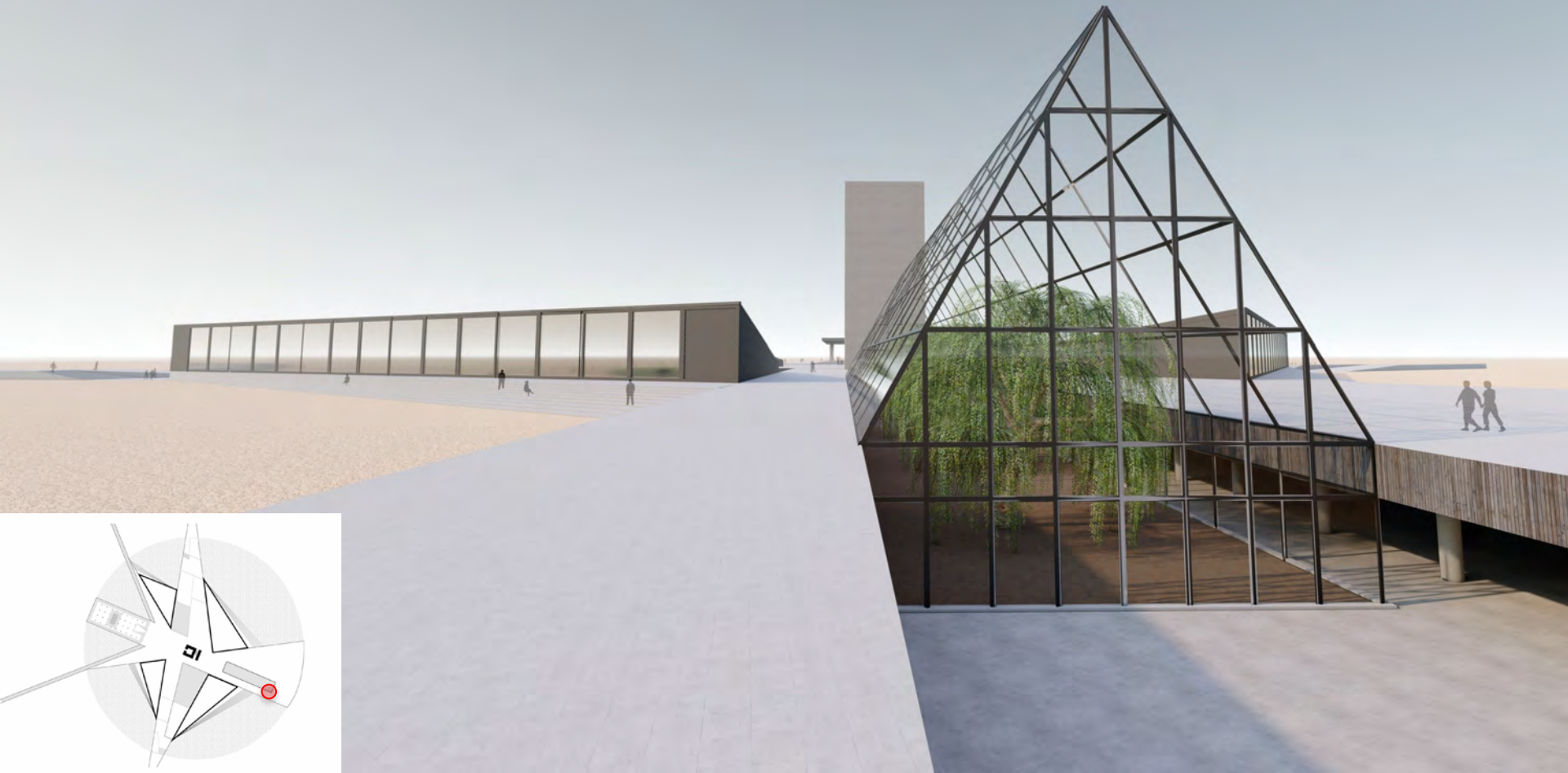


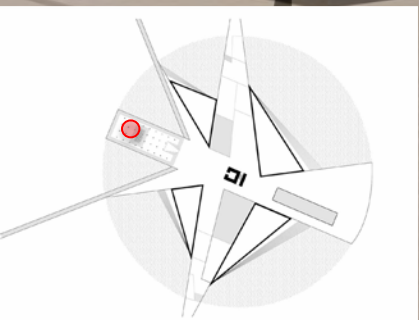
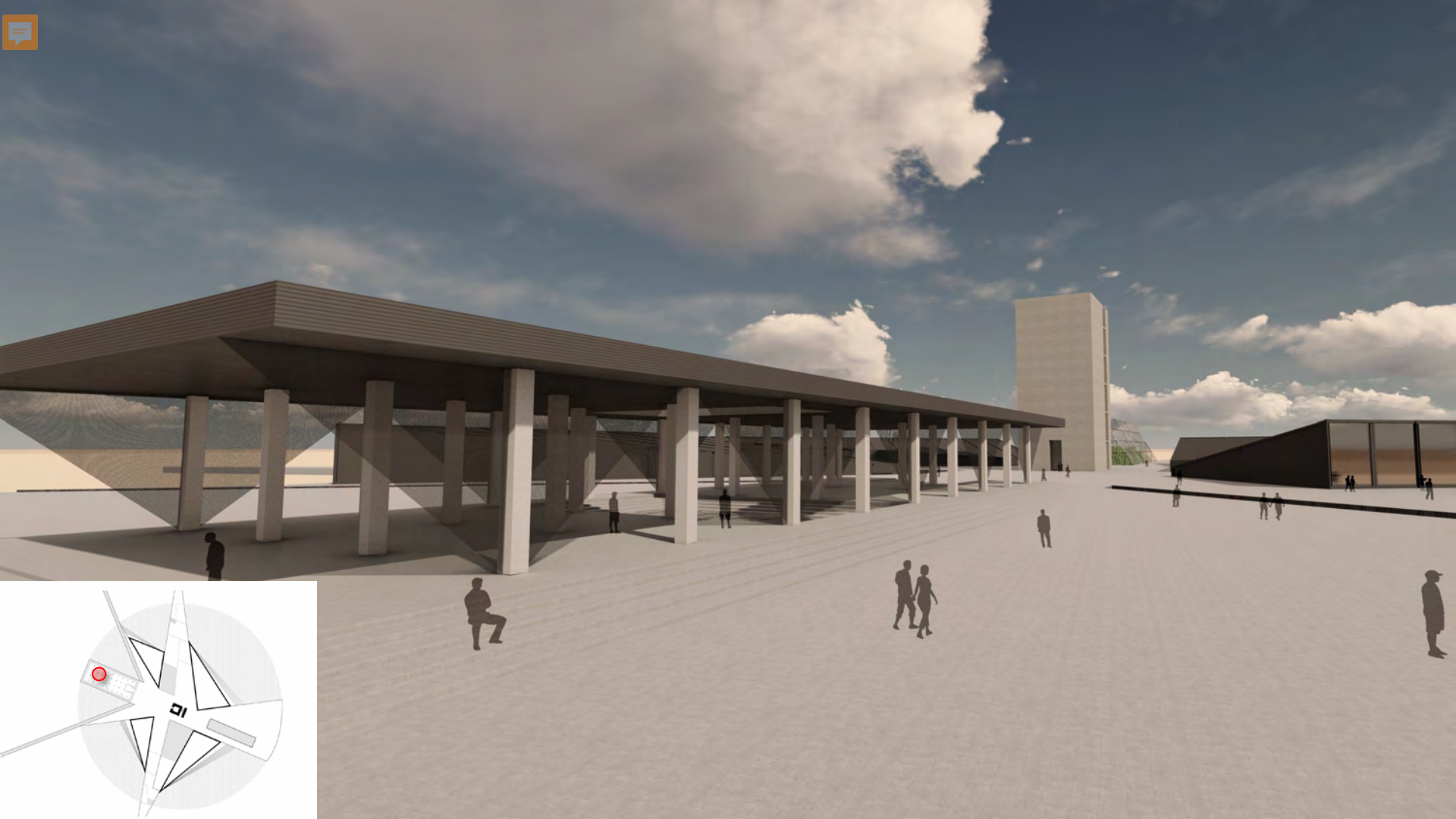


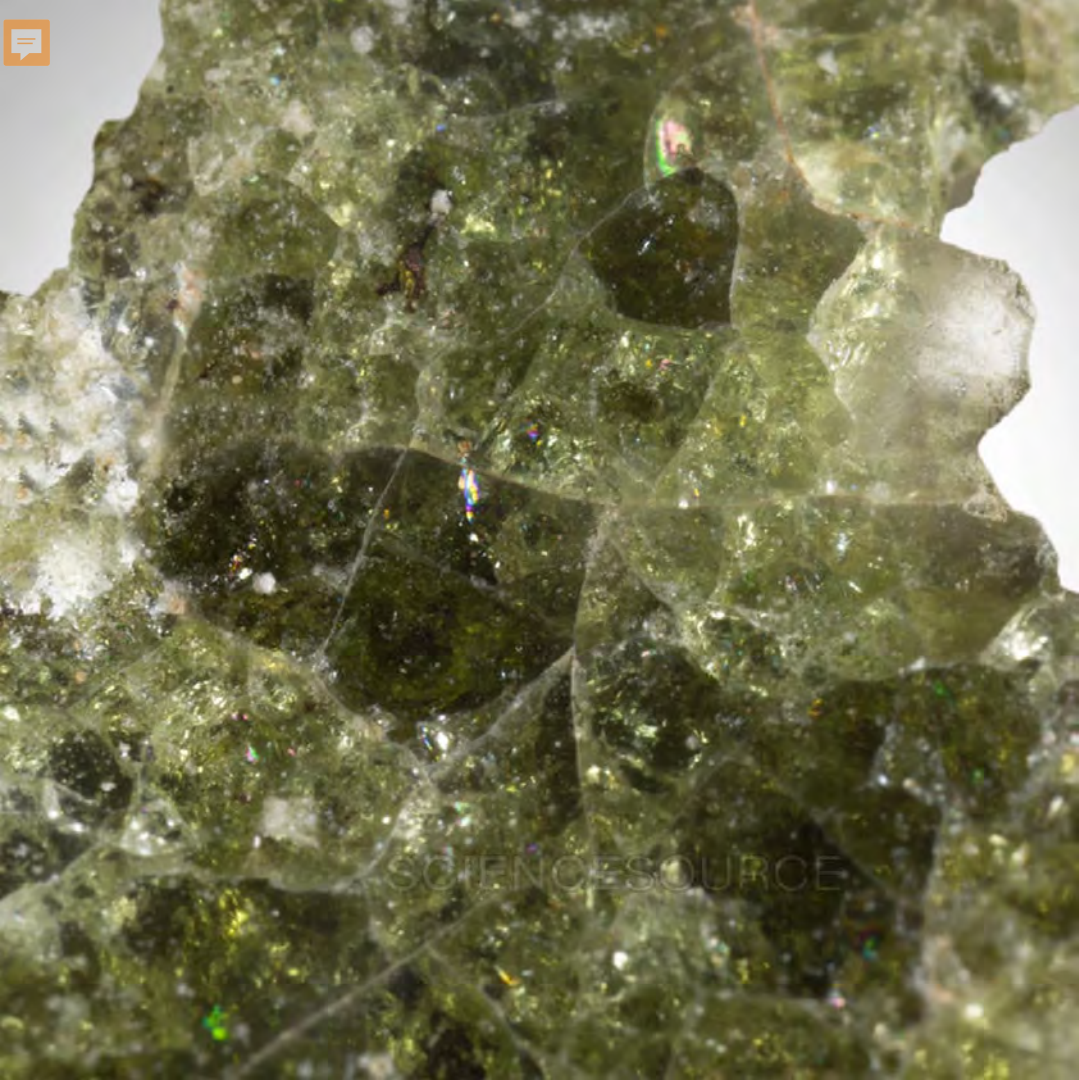




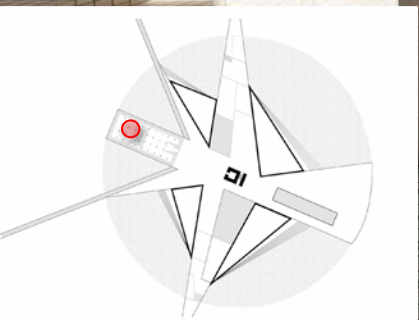


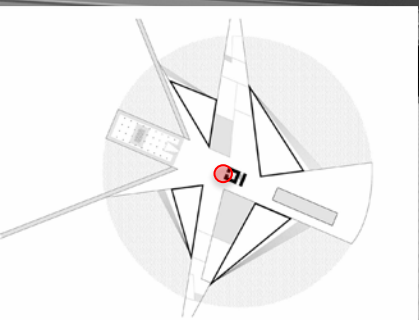
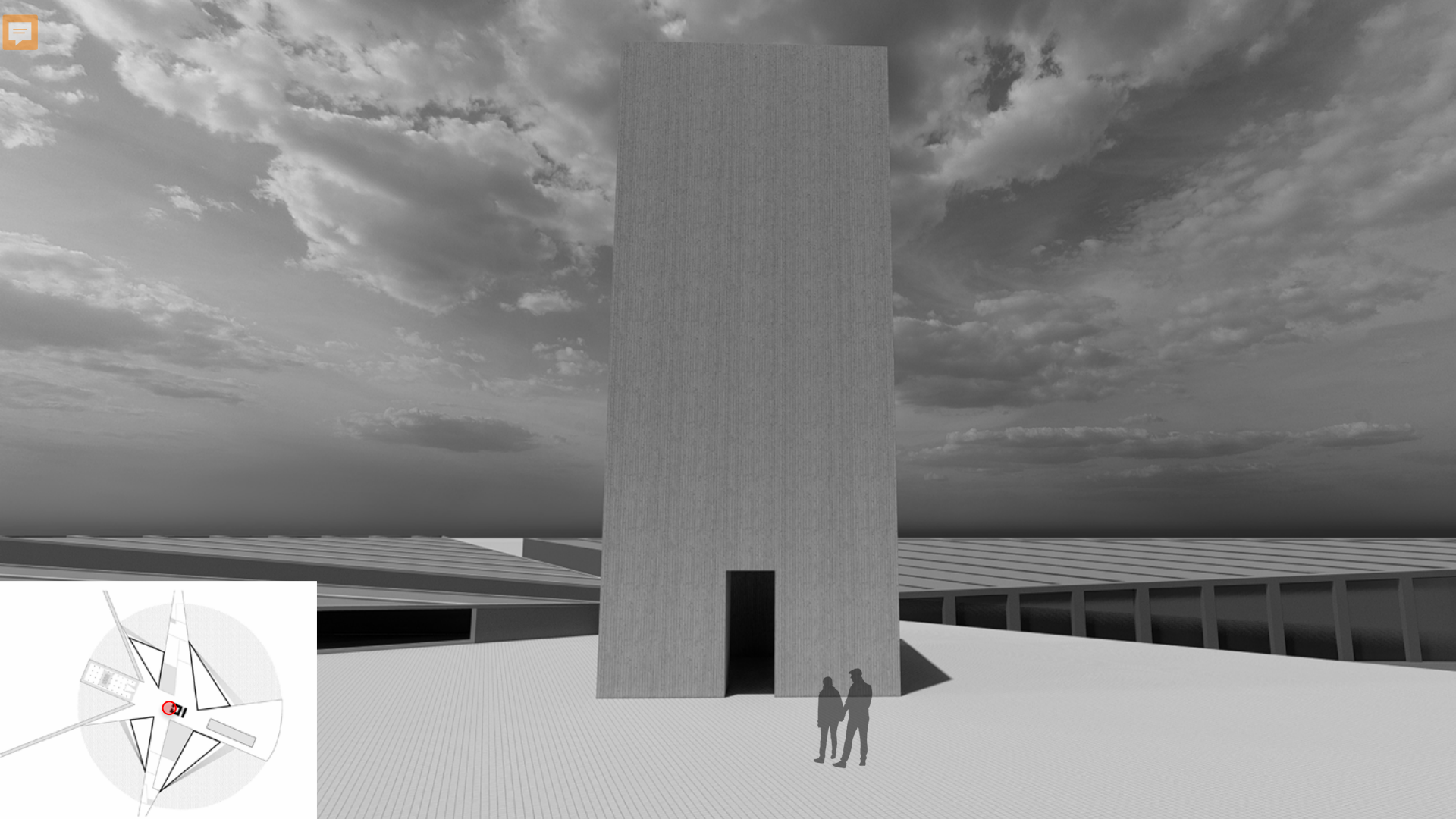












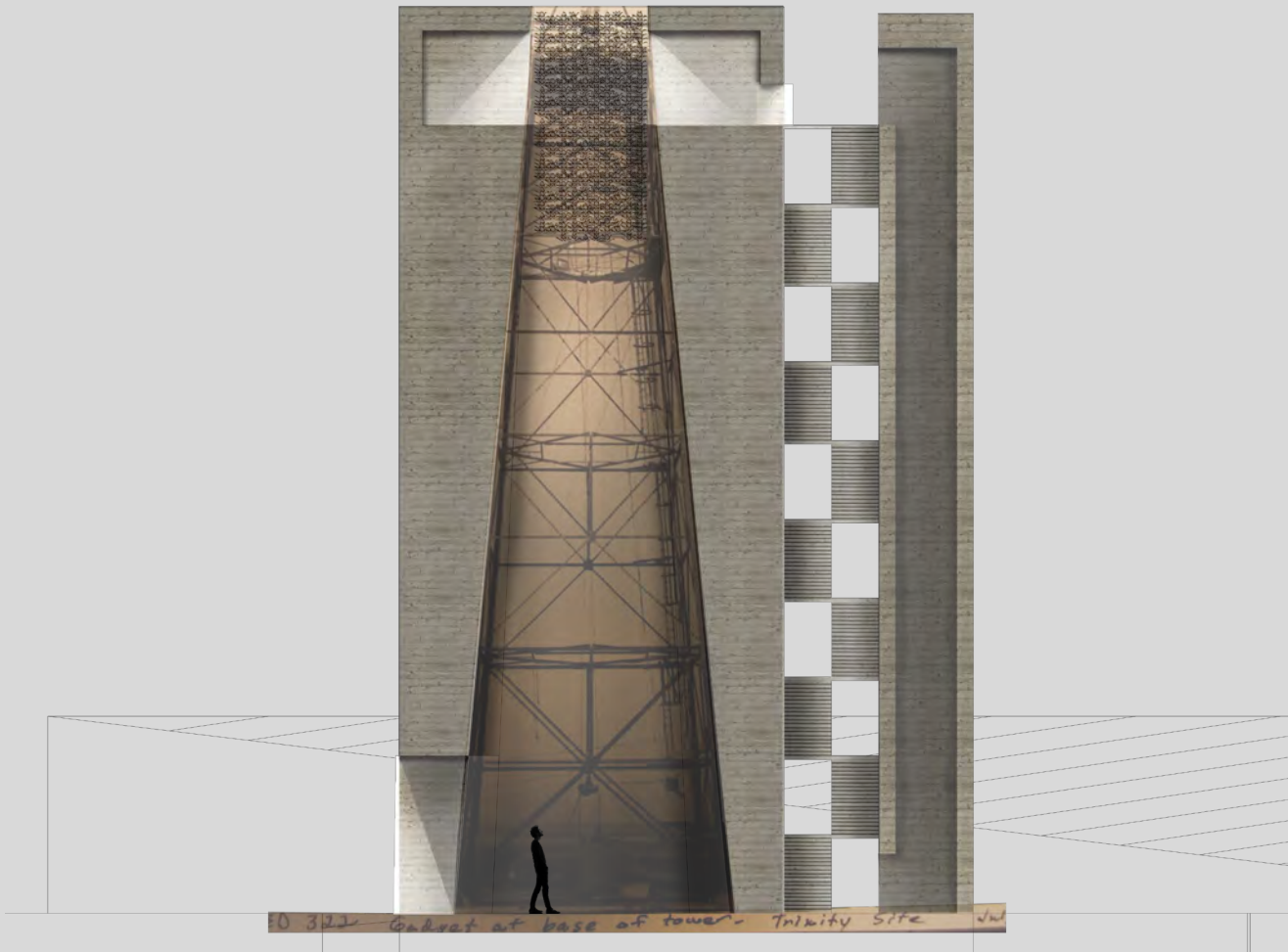


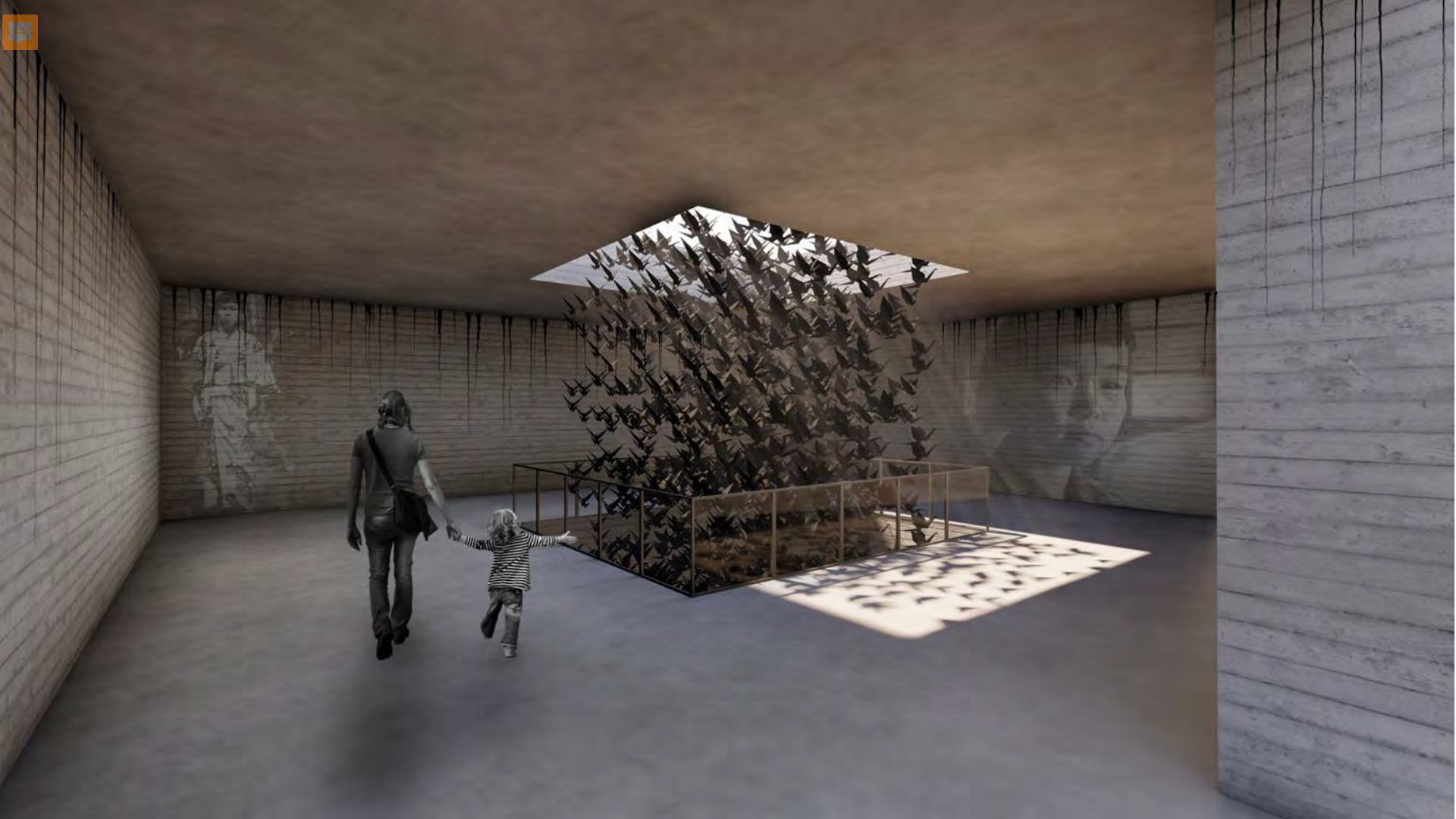
Footings of original tower

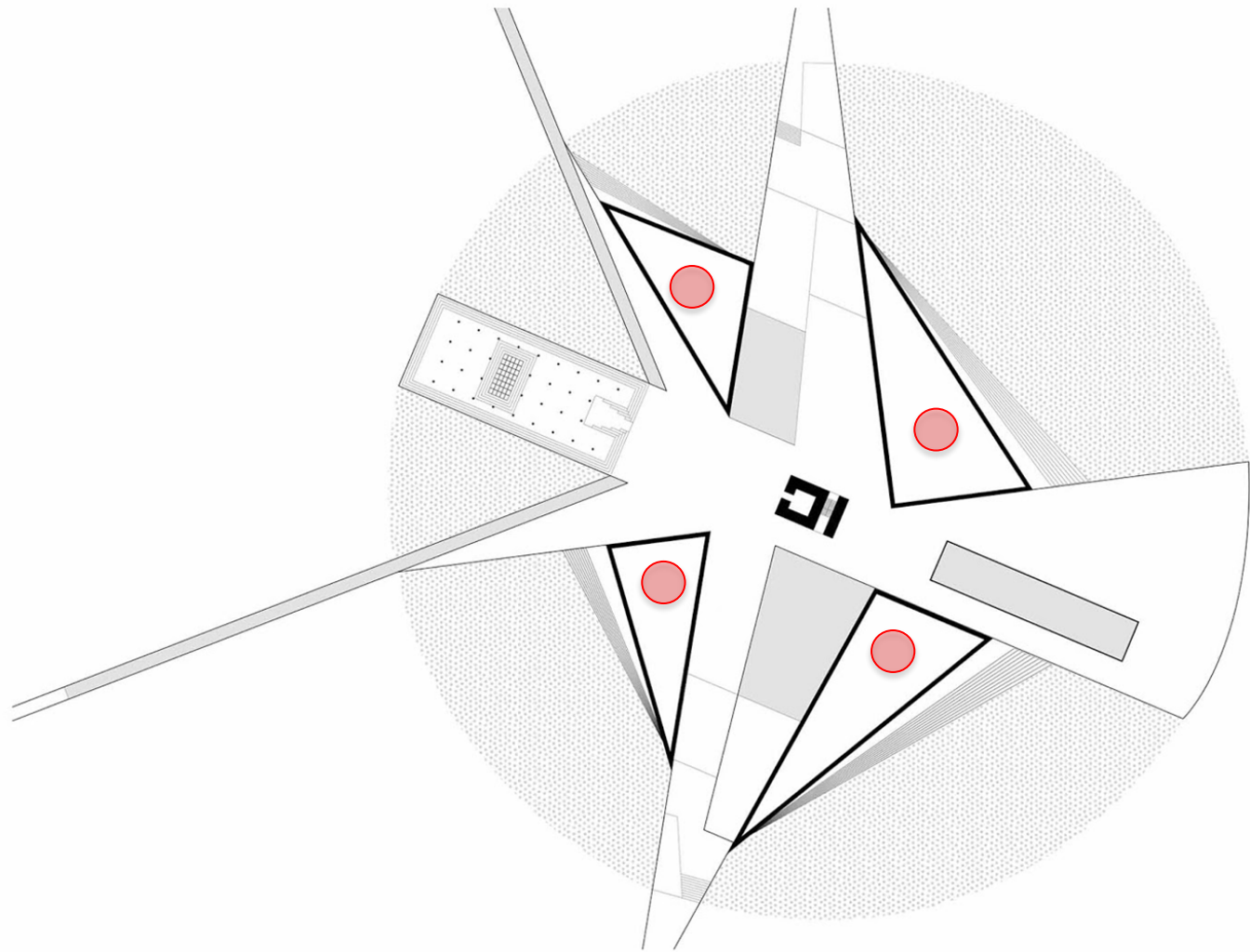


Original tower

















ARCHITECTURE THAT TRANSFORMS HISTORY: REFRAMING THE BIRTHPLACE OF THE ATOMIC BOMB FOR A MORE CRITICAL FUTURE

TRINITY MEMORIAL GROUNDS JORNADA DEL MUERTO DESERT, NEW MEXICO

Memories allow us to keep things alive even after they have passed. Whether its people, places or moments in time, humanity has always found it necessary to retain what once was. Architecture has played a significant role in this effort from monuments focusing on names, heroes, and patriotism to abstract symbols of mourning and loss. How do we continue to evolve the way in which collective memory and history becomes part of present life and action as a motivating force for change, and how can architecture contribute? This is especially important when tackling some of the most important issues currently facing humanity, such as a nuclear disaster. By examining the significance of memory and forgetting throughout history and its relationship to loss of life, this thesis looks to transform the birthplace of the atomic bomb from a site once responsible for producing an instrument of destruction, into a site that becomes an instrument of peace and acknowledgment. With a critical approach, my design serves as a collection of representations and metaphors of various states relating to the destructive consequences of the atomic bomb.



THE AREA FROM THE BIRTHPLACE OF THE ATOMIC BOMB, IN THE 1940s, PROVIDED A SENSE OF COMMUNITY AND BELONGING TO THE PEOPLE WHO WERE INVOLVED IN THE PROJECT.



THE AREA FROM THE BIRTHPLACE OF THE ATOMIC BOMB, IN THE 1940s, PROVIDED A SENSE OF COMMUNITY AND BELONGING TO THE PEOPLE WHO WERE INVOLVED IN THE PROJECT.



THE CONSTRUCTION OF THE BIRTHPLACE OF THE ATOMIC BOMB WAS A CHALLENGING TASK, AS IT WAS TO BE RECONSTRUCTED ON THE SITE OF THE BOMB, THAT HAD BEEN DESTROYED BY THE ATOMIC BOMB. THE DESIGN WAS A CHALLENGING TASK, AS IT WAS TO BE RECONSTRUCTED ON THE SITE OF THE BOMB, THAT HAD BEEN DESTROYED BY THE ATOMIC BOMB.



ARCHITECTURE HAS PLAYED A SIGNIFICANT ROLE IN THIS EFFORT FROM MONUMENTS FOCUSING ON NAMES, HEROES, AND PATRIOTISM TO ABSTRACT SYMBOLS OF MOURNING AND LOSS. HOW DO WE CONTINUE TO EVOLVE THE WAY IN WHICH COLLECTIVE MEMORY AND HISTORY BECOMES PART OF PRESENT LIFE AND ACTION AS A MOTIVATING FORCE FOR CHANGE, AND HOW CAN ARCHITECTURE CONTRIBUTE?



THE AREA FROM THE BIRTHPLACE OF THE ATOMIC BOMB, IN THE 1940s, PROVIDED A SENSE OF COMMUNITY AND BELONGING TO THE PEOPLE WHO WERE INVOLVED IN THE PROJECT.



THE AREA FROM THE BIRTHPLACE OF THE ATOMIC BOMB, IN THE 1940s, PROVIDED A SENSE OF COMMUNITY AND BELONGING TO THE PEOPLE WHO WERE INVOLVED IN THE PROJECT.



GROUND LEVEL



UNDERGROUND LEVEL



N

