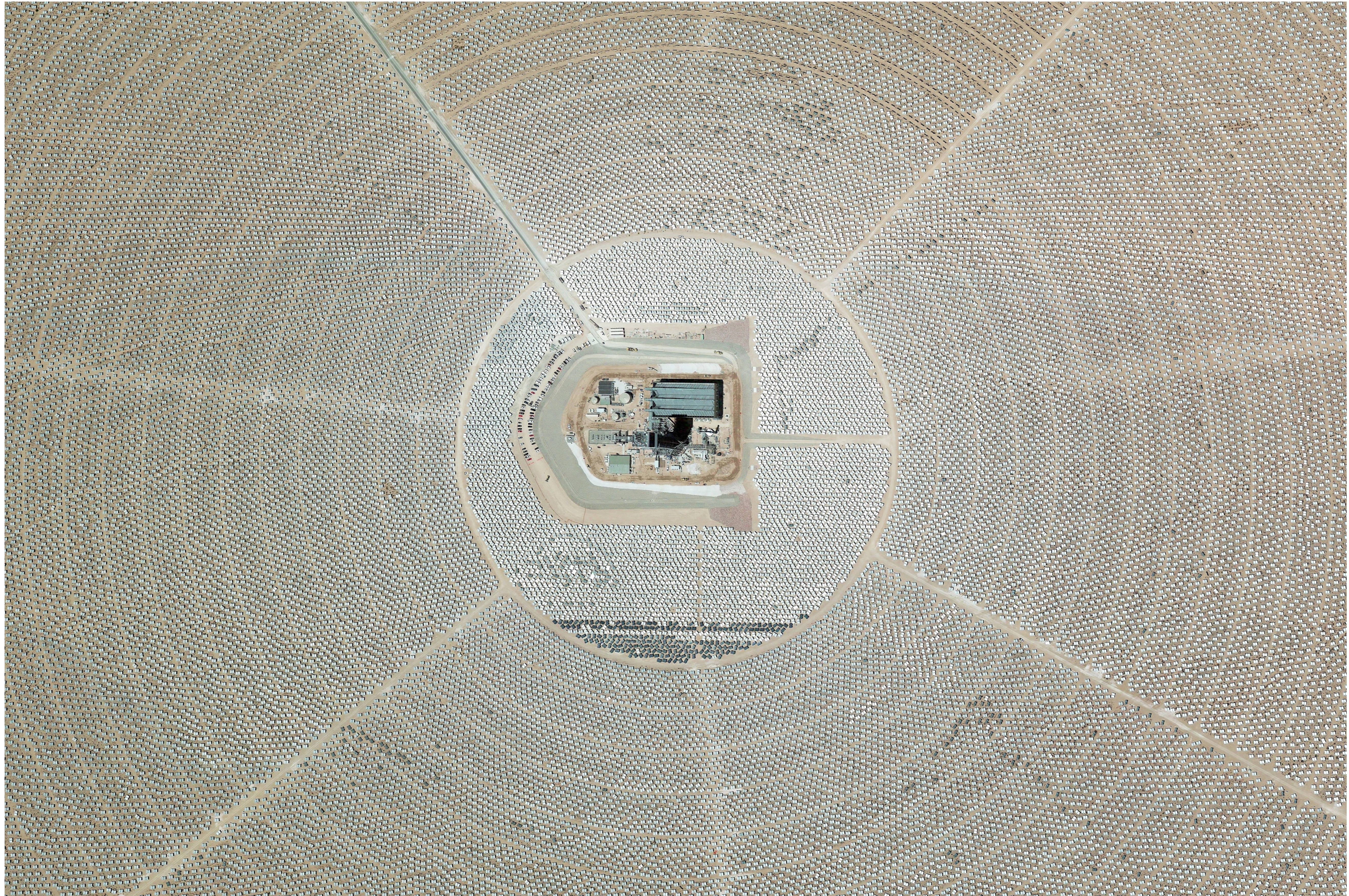


PARIS HELIOS CIRCUS

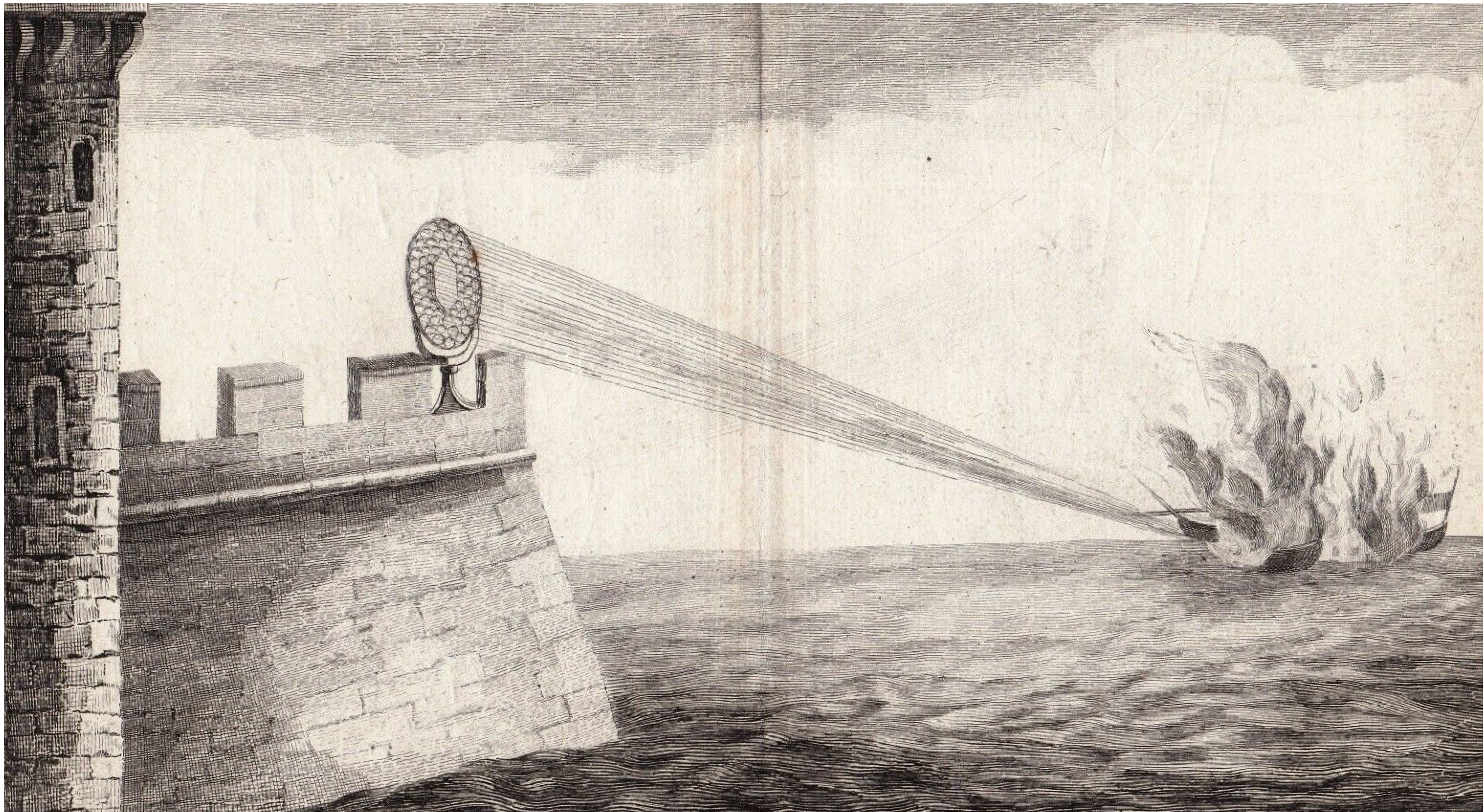
PART II

MAUDE VOUTAT

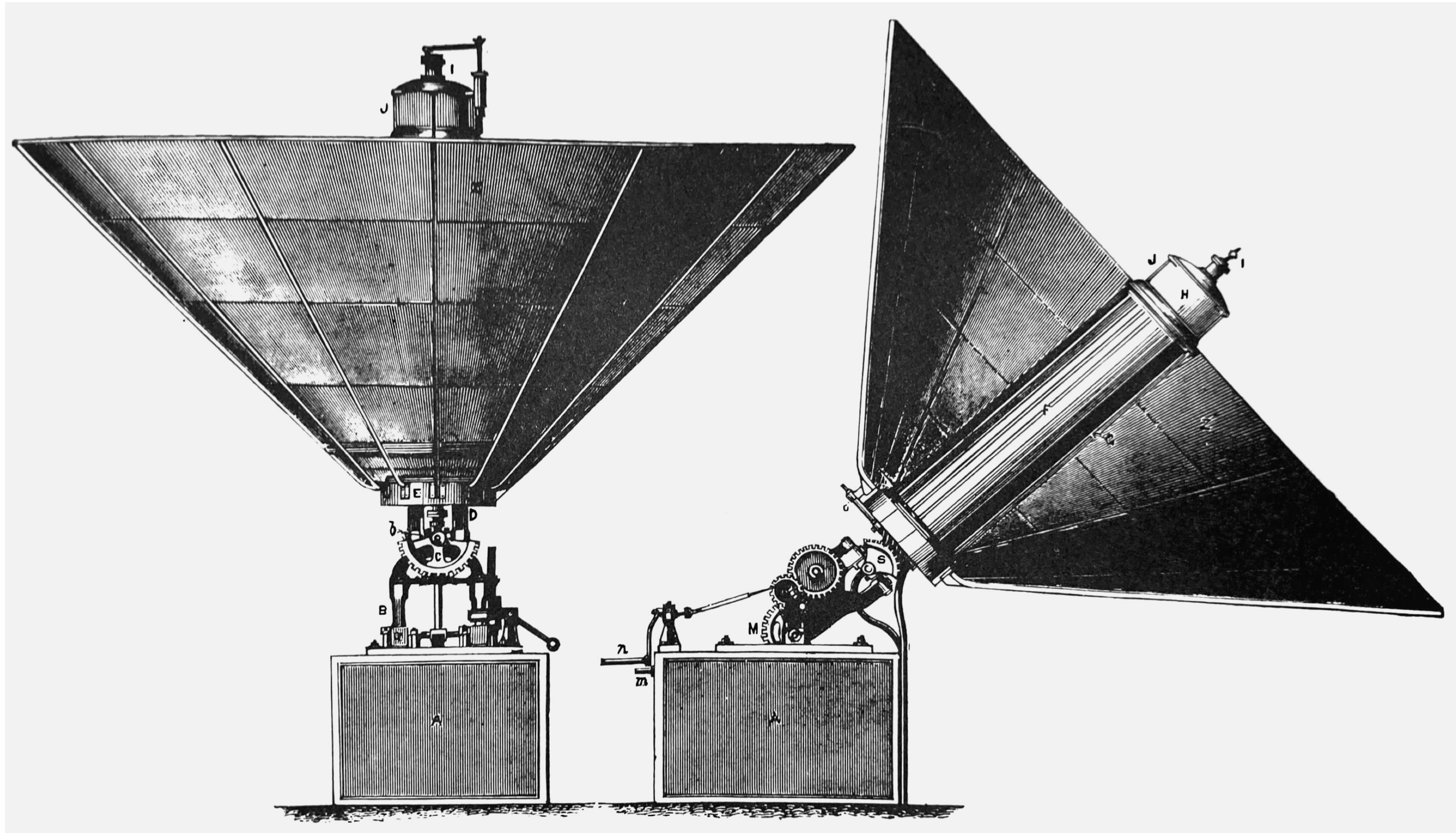
MasterThesis HS21
VOLUPTAS Chair Charbonnet / Heiz ETHZ



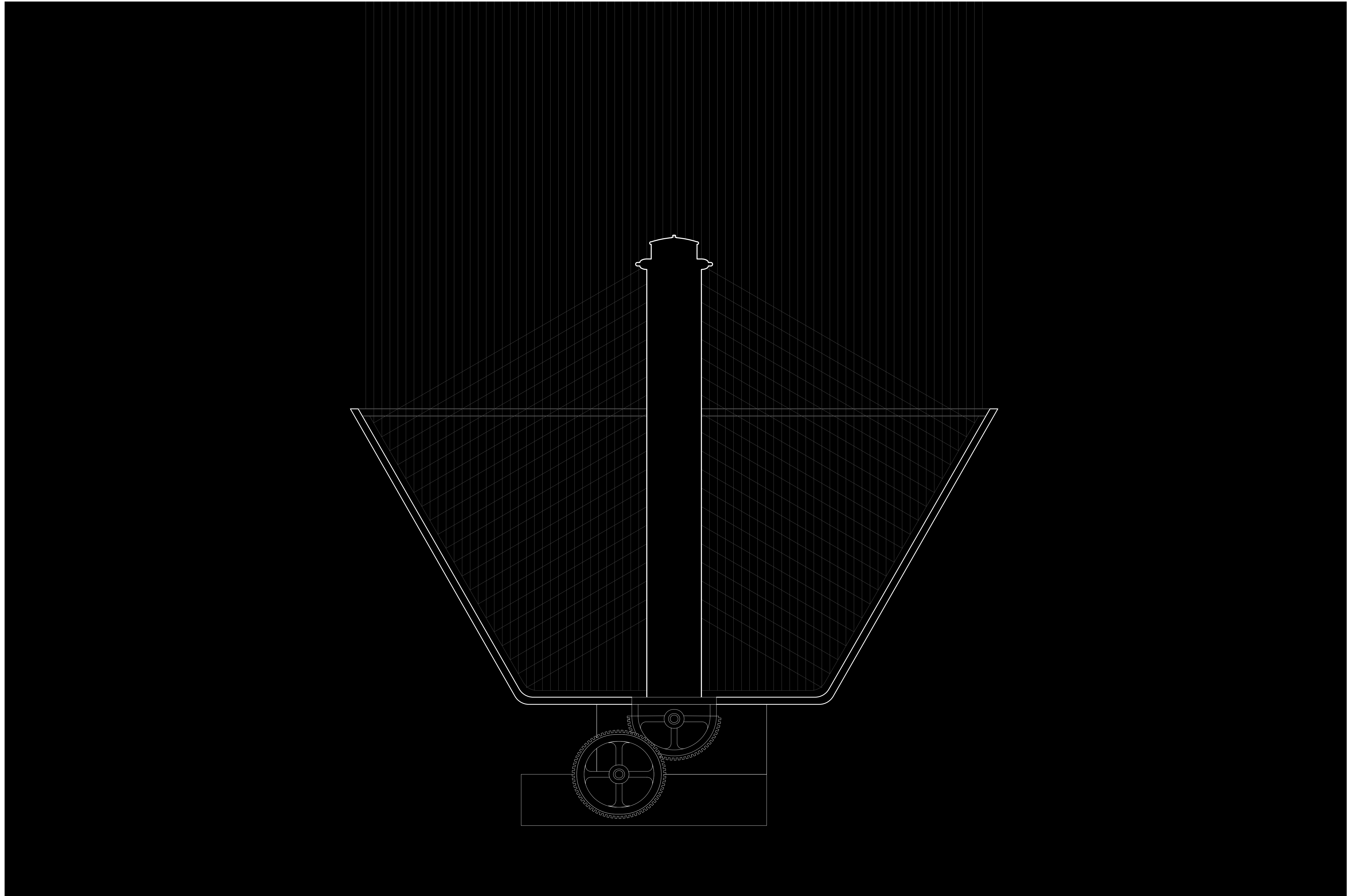
GOOGLE EARTH, IVANPAH SOLAR POWER PLANT, CALIFORNIA (2011)



UNKNOWN, ARCHIMEDES' BURNING MIRROR (2ND CENTURY BC)

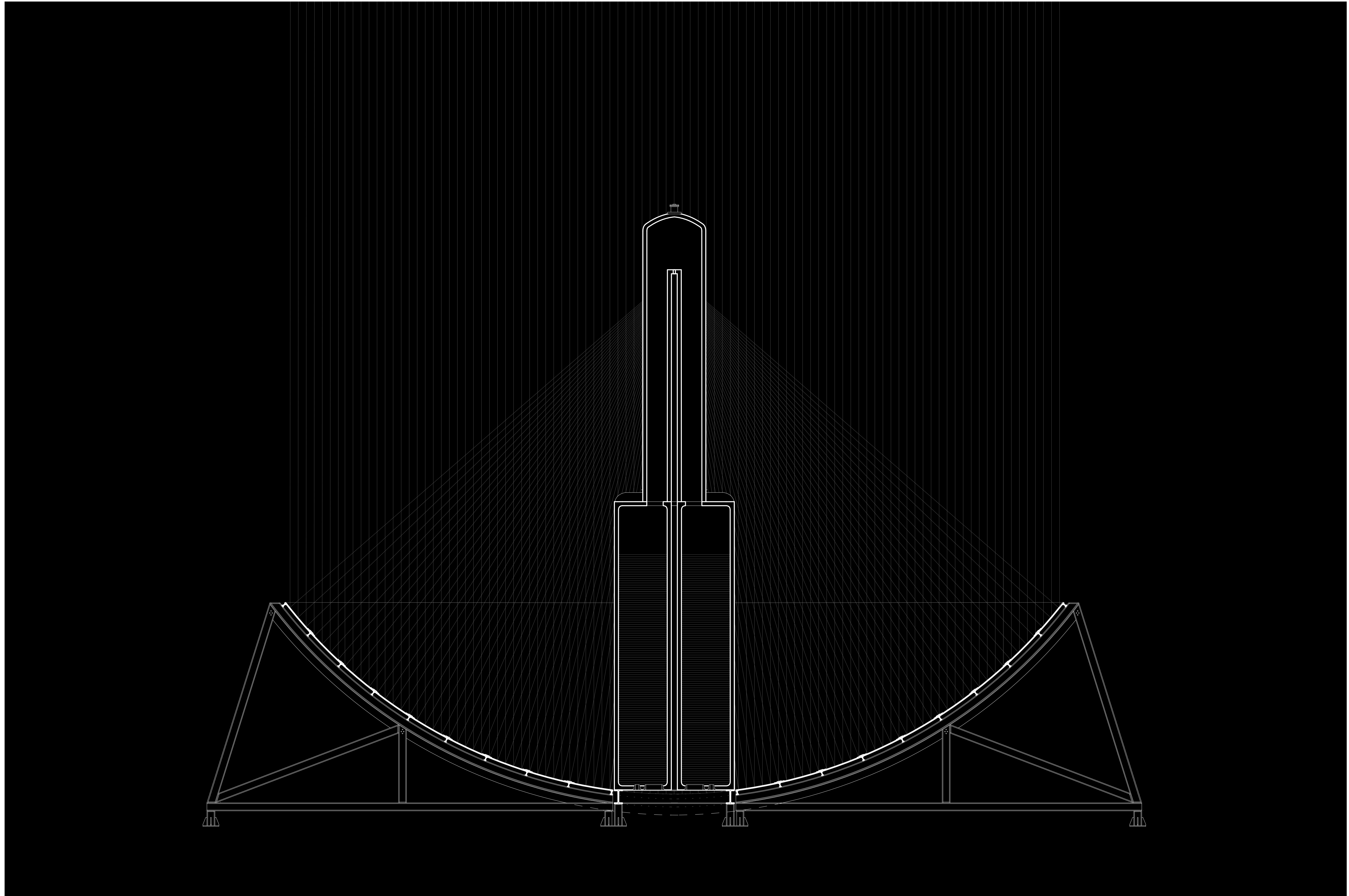


AUGUSTIN MOUCHOT, SOLAR MOTOR (1880)



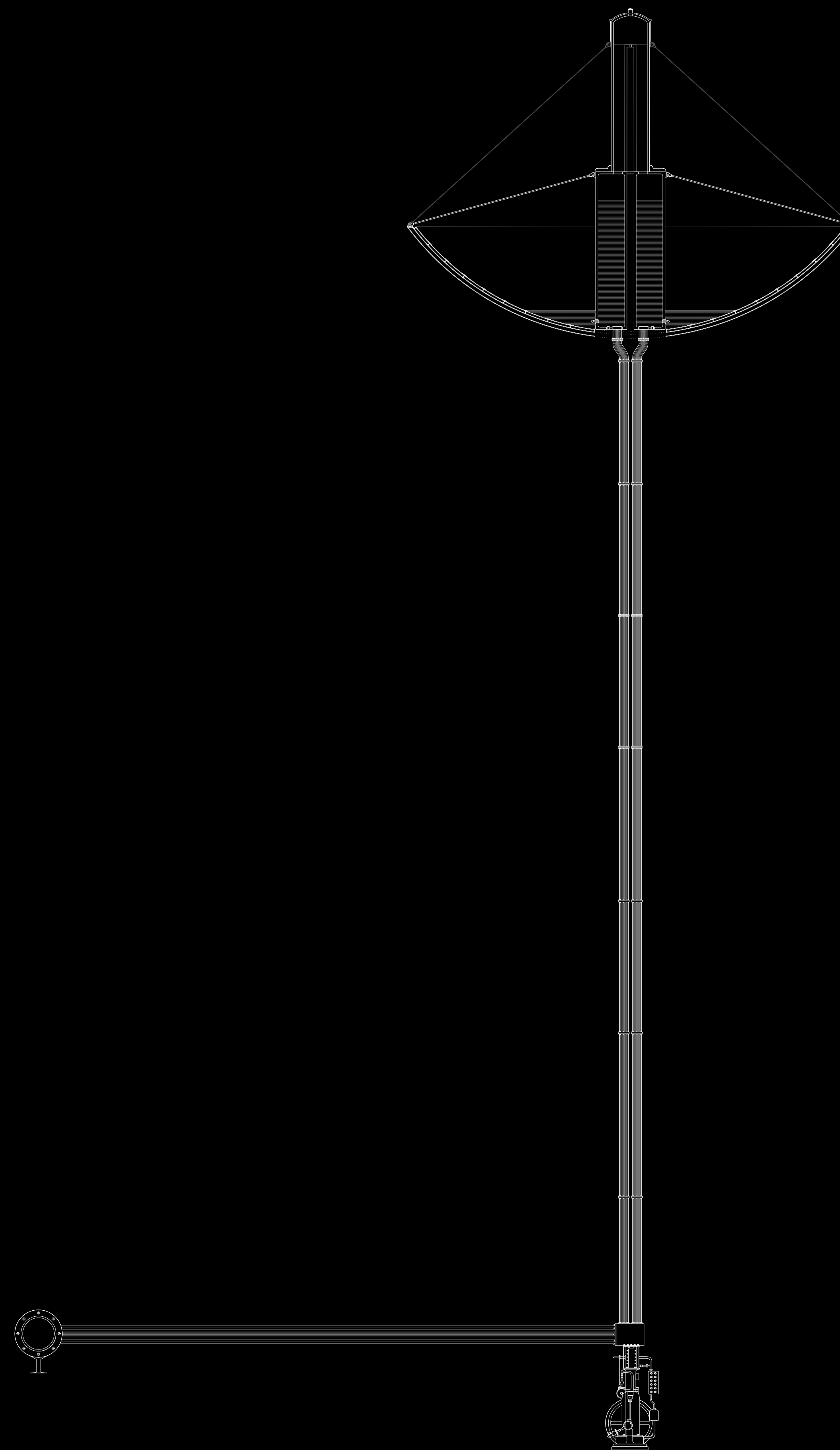
FROM MOUCHOT'S ENGINE TO A SOLAR ROOF

SCHEME



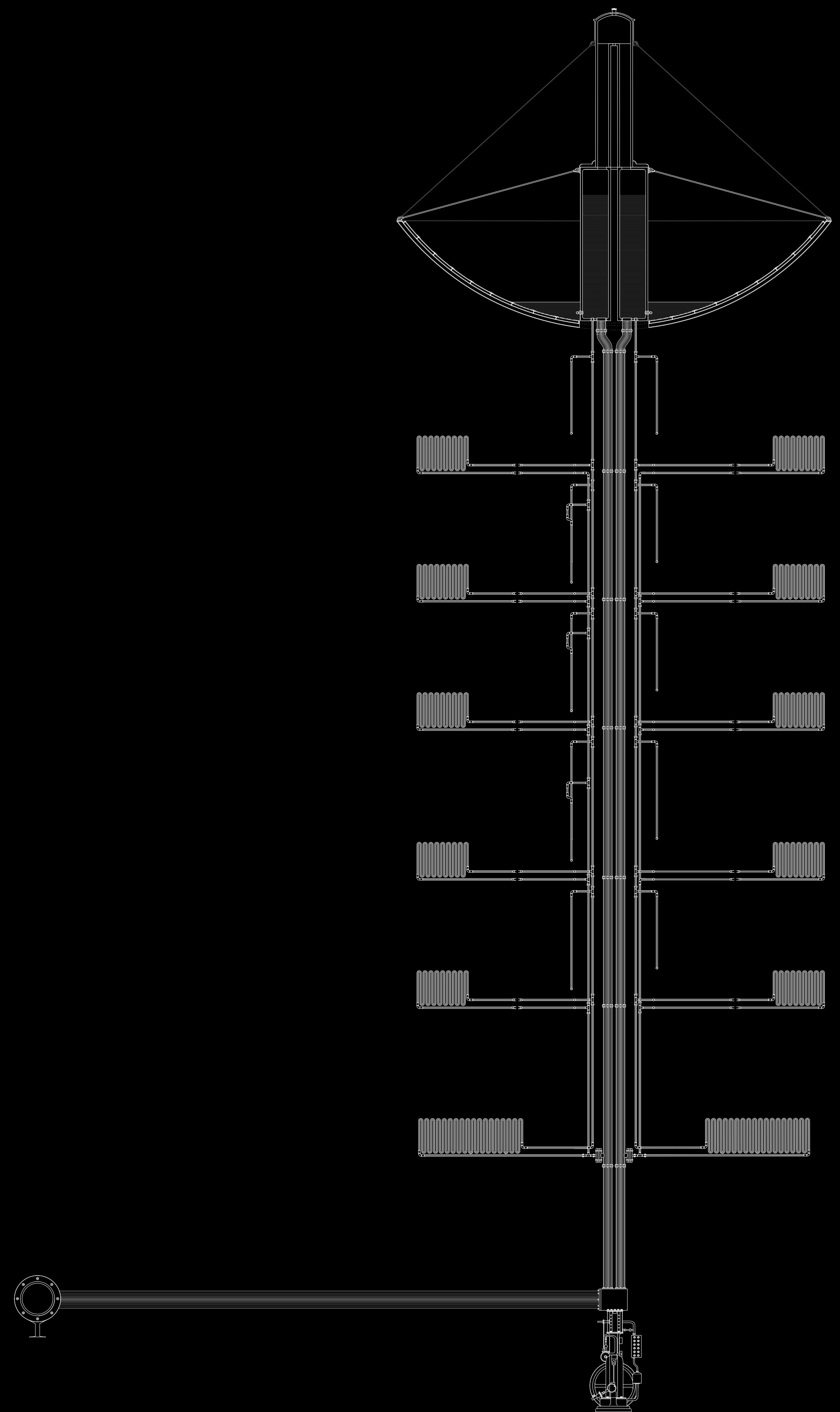
FROM MOUCHOT'S ENGINE TO A SOLAR ROOF

SCHEME



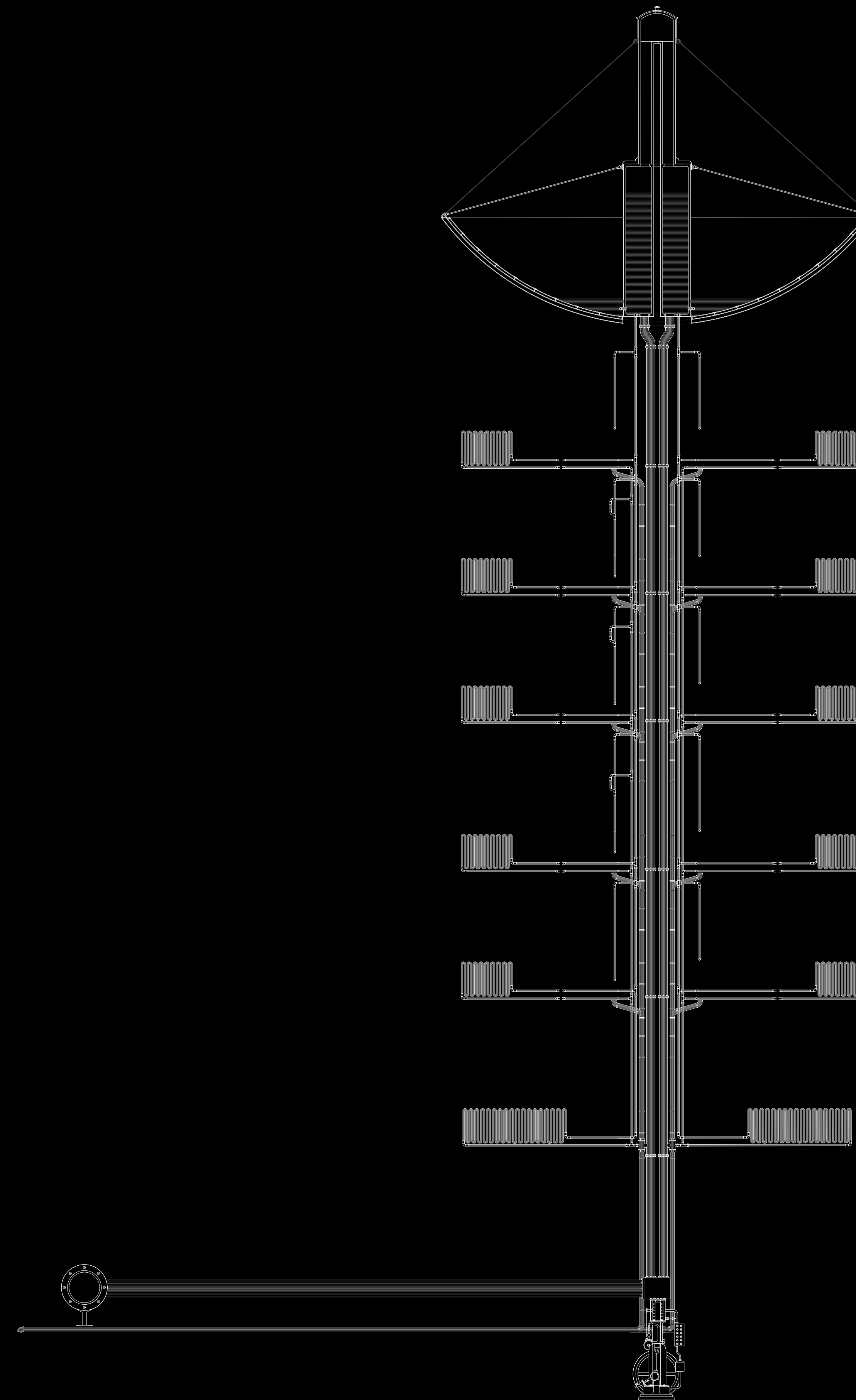
INPUT : WATER

SECTION 1:50



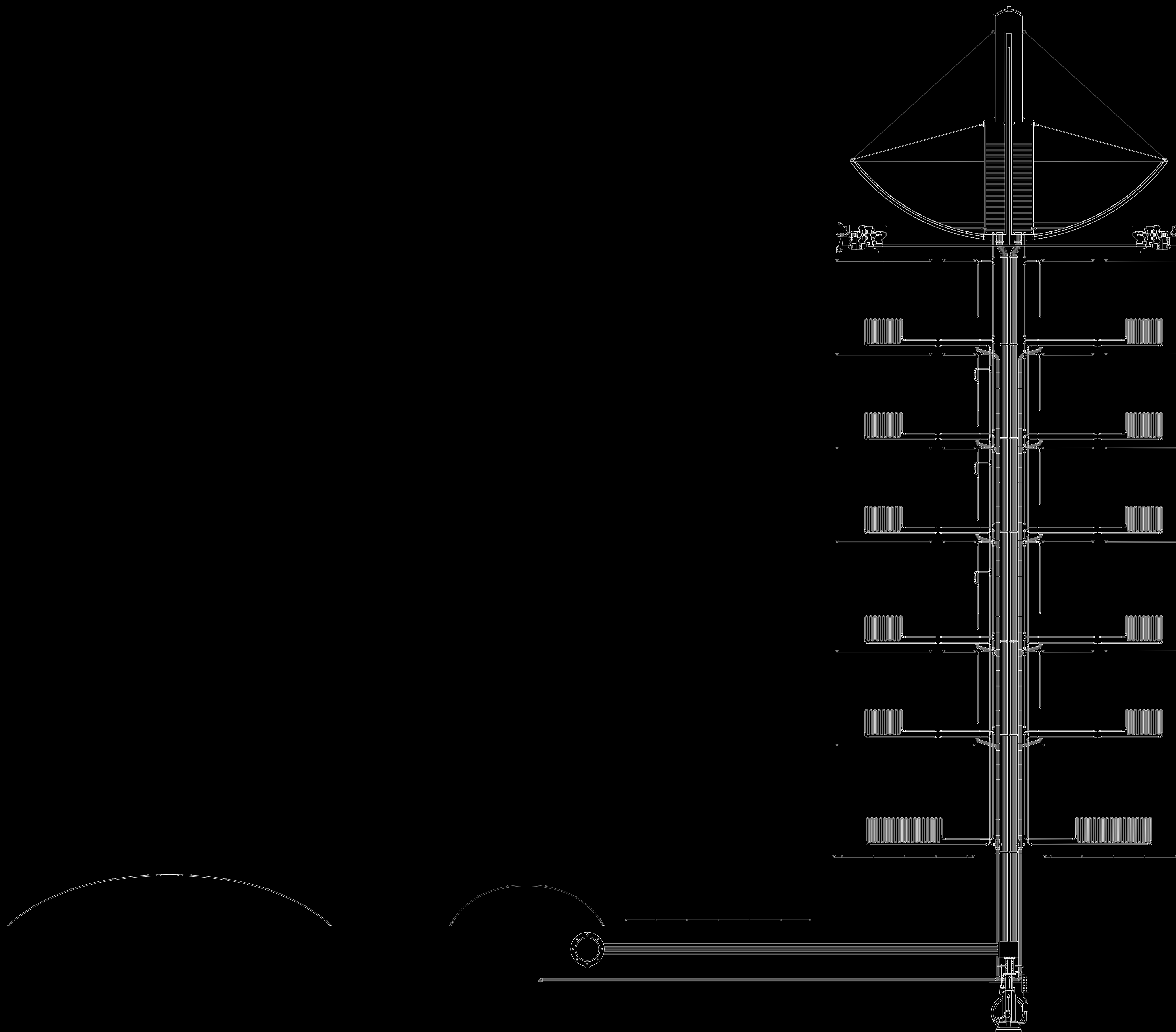
OUTPUT : WARM WATER

SECTION 1:50



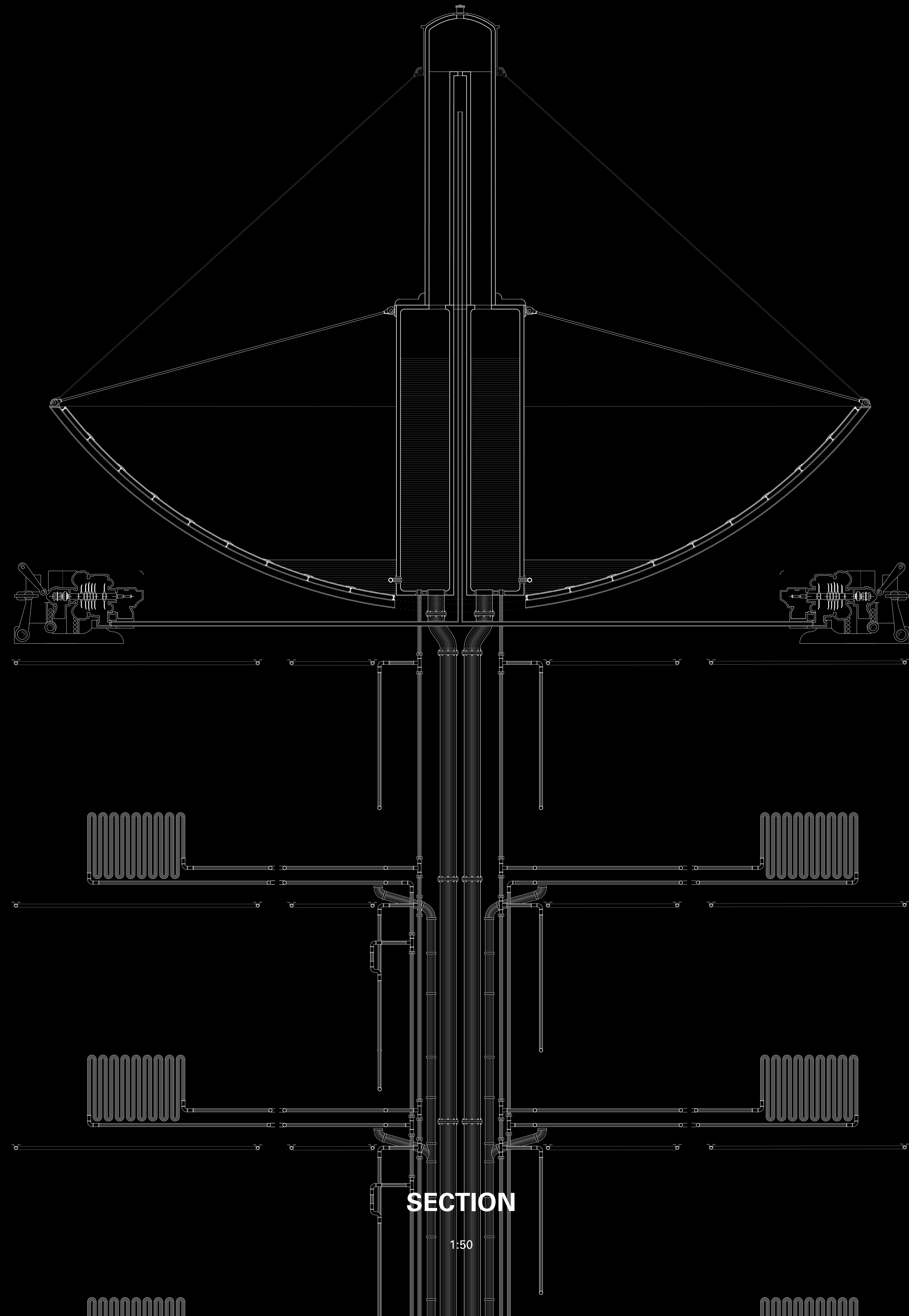
OUTPUT : SEWAGE WATER

SECTION 1:50



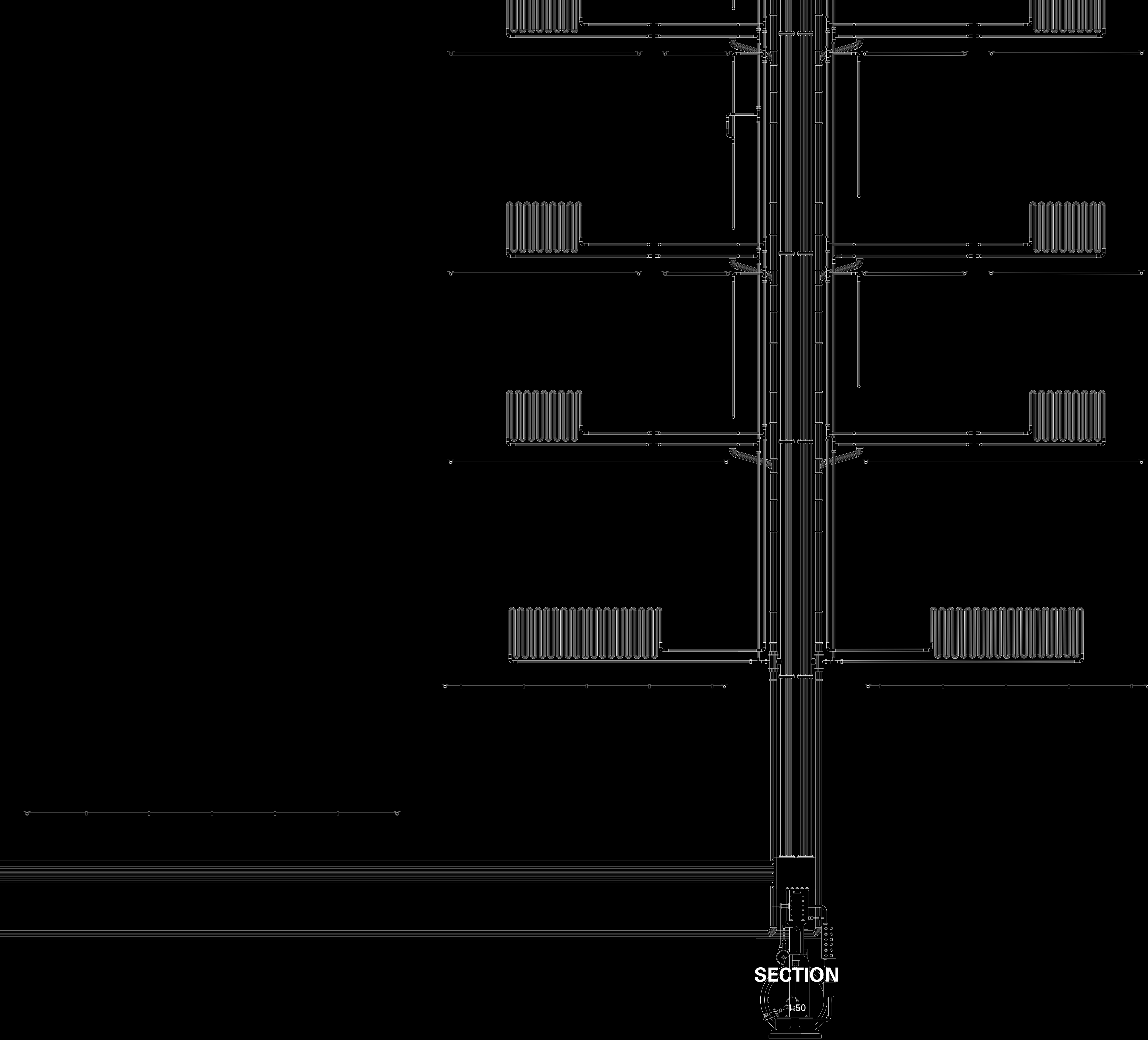
OUTPUT : STEAM, ELECTRICITY

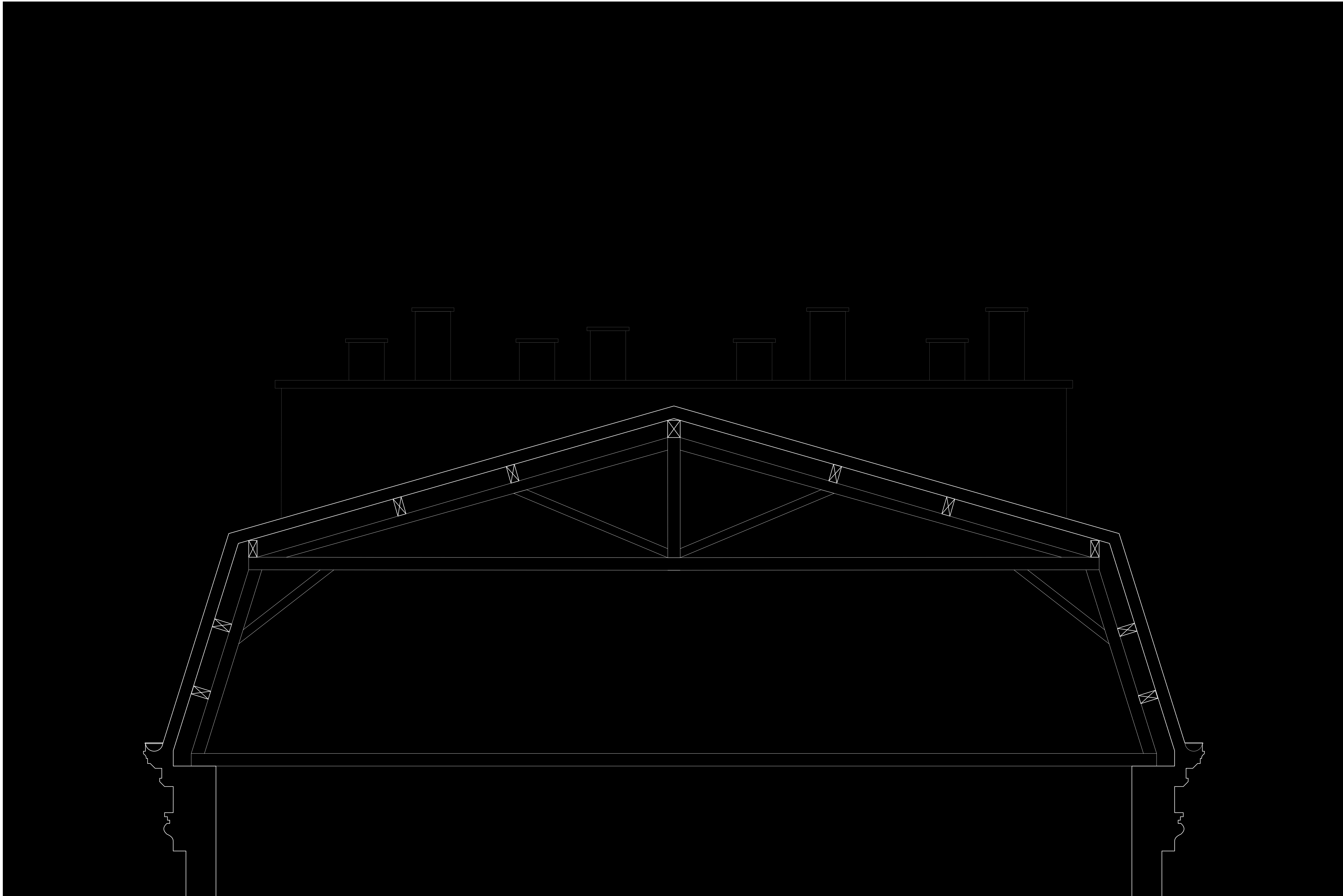
SECTION 1:50



SECTION

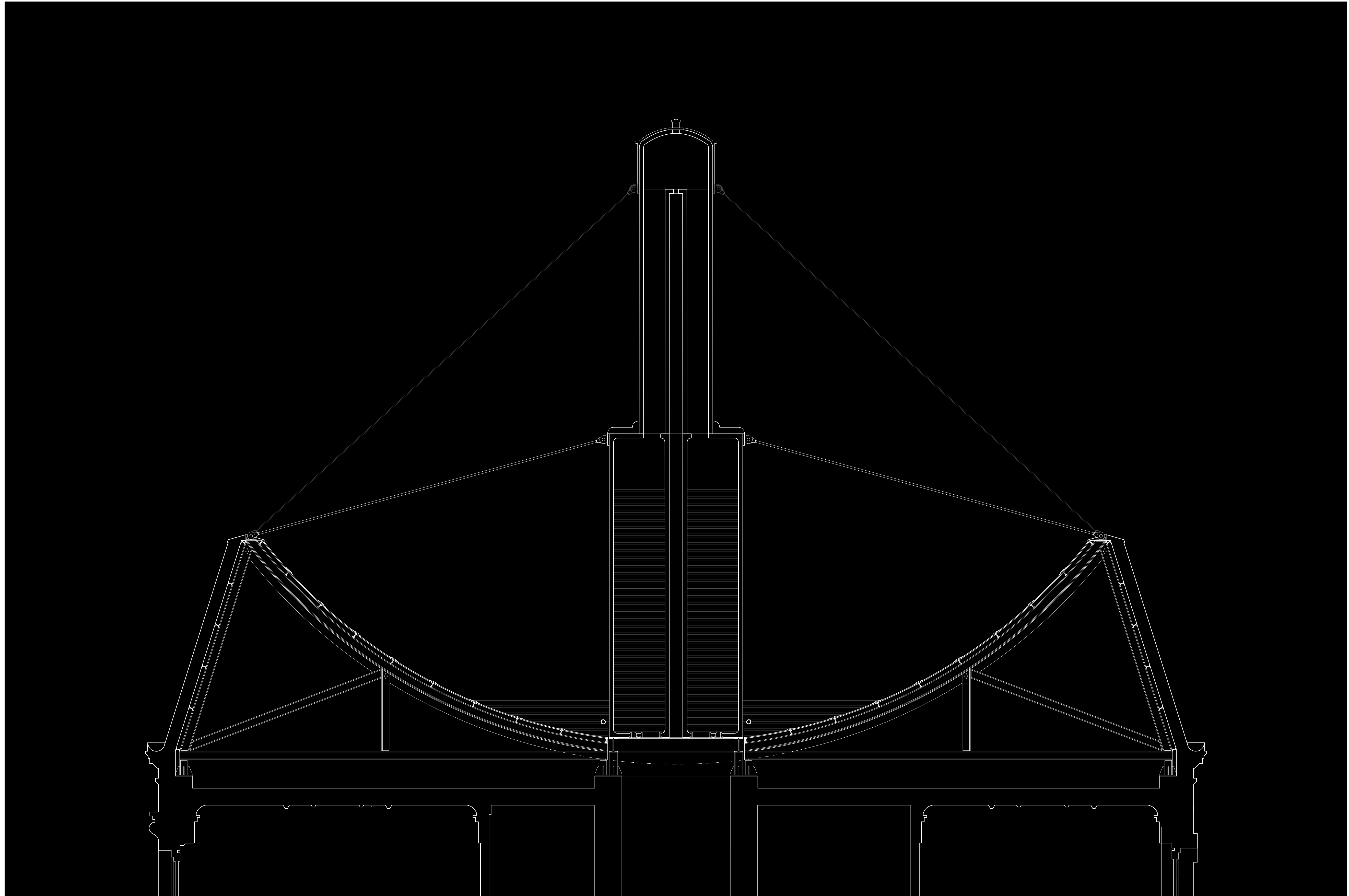
1:50





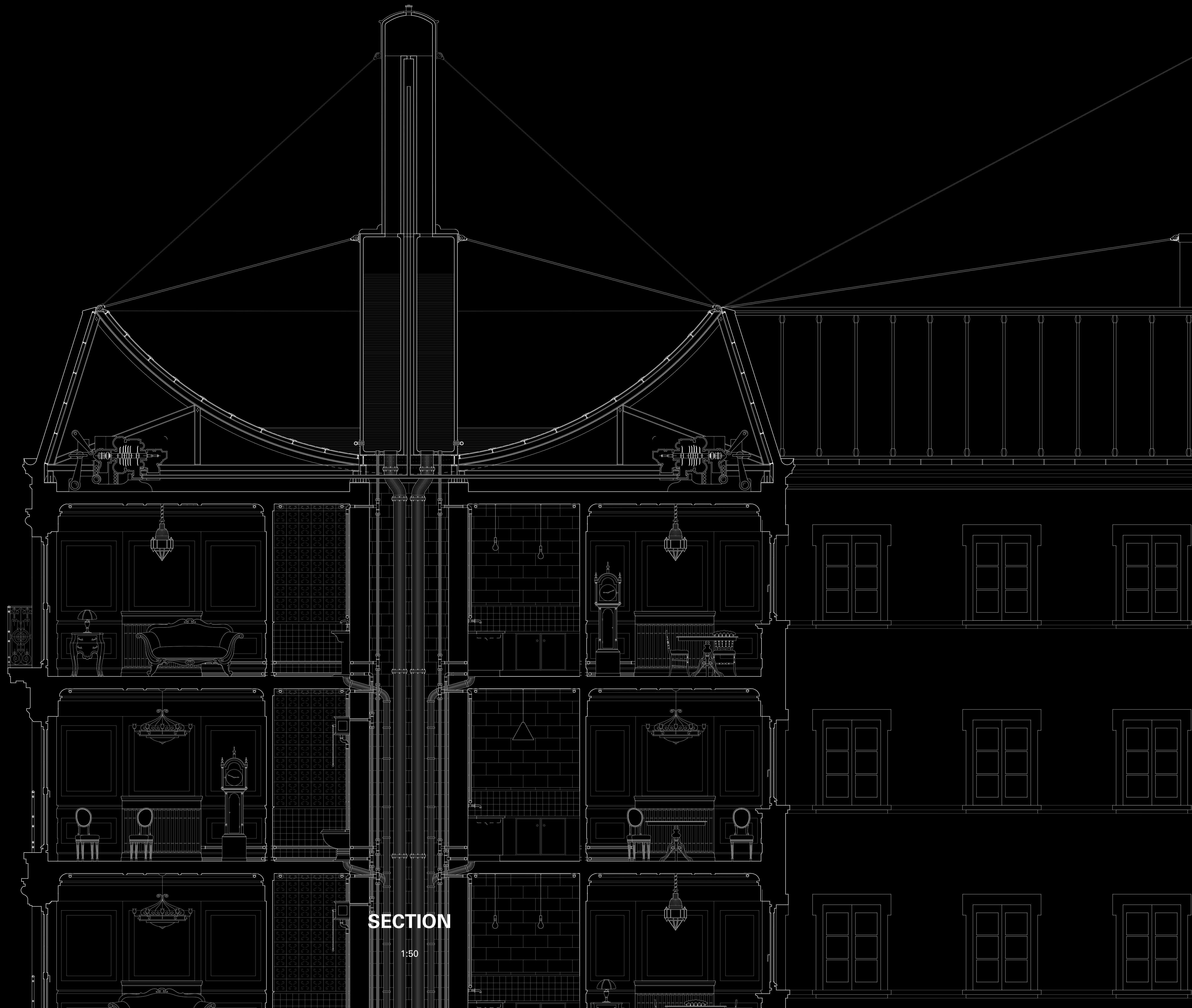
FROM THE "MANSART" ROOF TO A SOLAR ROOF

SCHEME



FROM THE "MANSART" ROOF TO A SOLAR ROOF

SCHEME



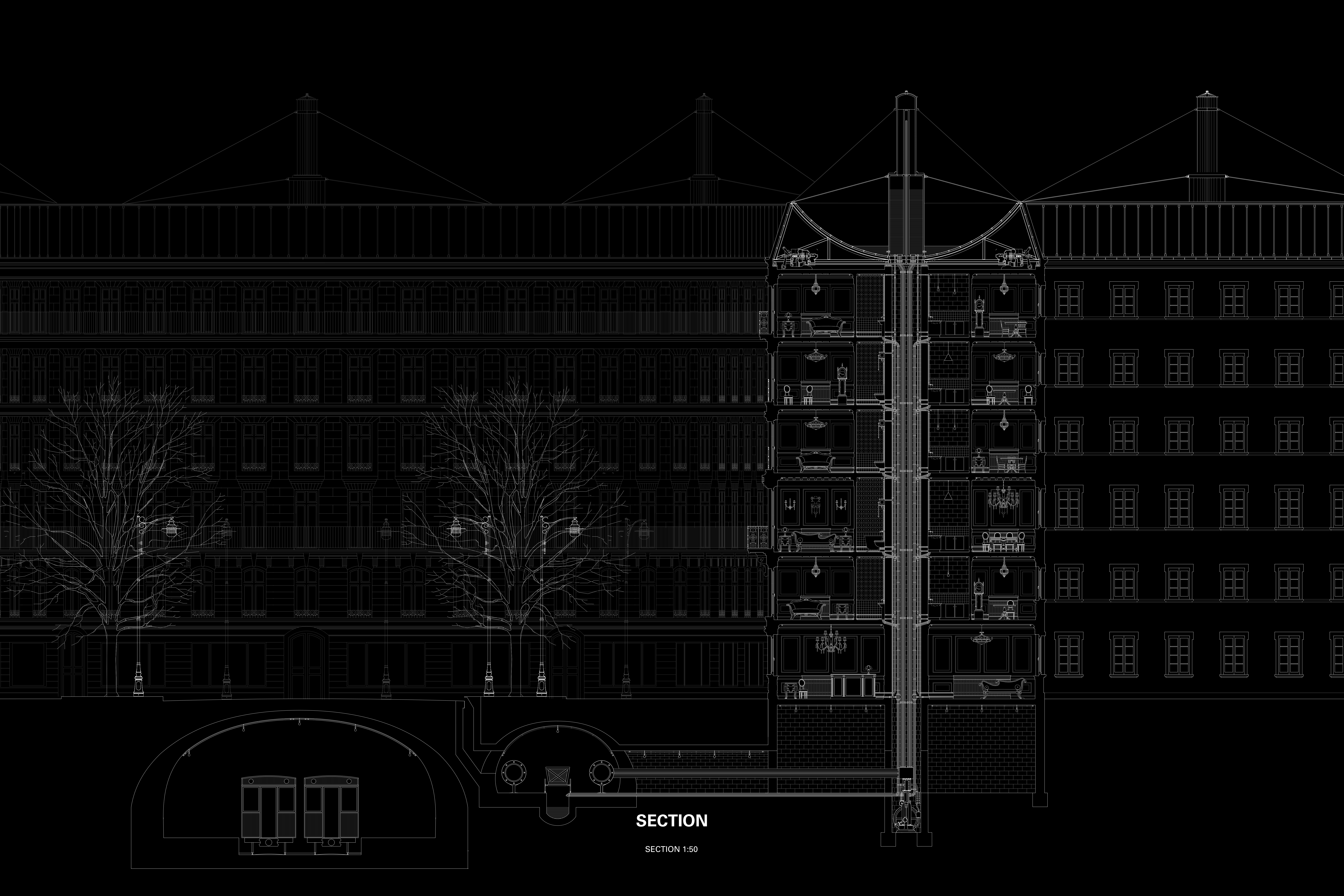
SECTION

1:50



SECTION

1:50



SECTION

SECTION 1:50

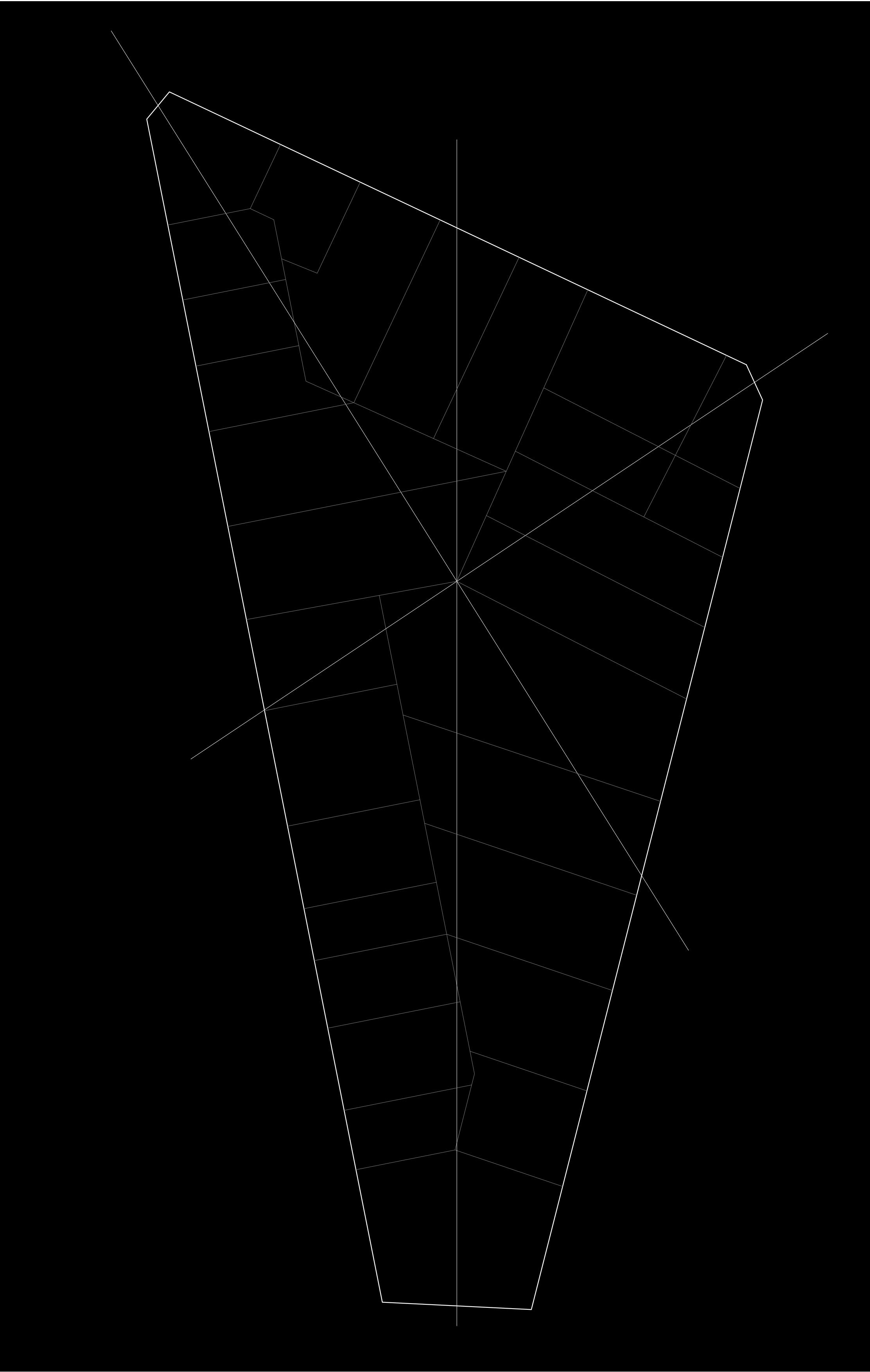


STREET VIEW

GUSTAVE CAILLEBOTTE, Rue de Paris, Temps de Pluie (1877)



GOOGLE EARTH, PLACE DE LA NATION (2008)



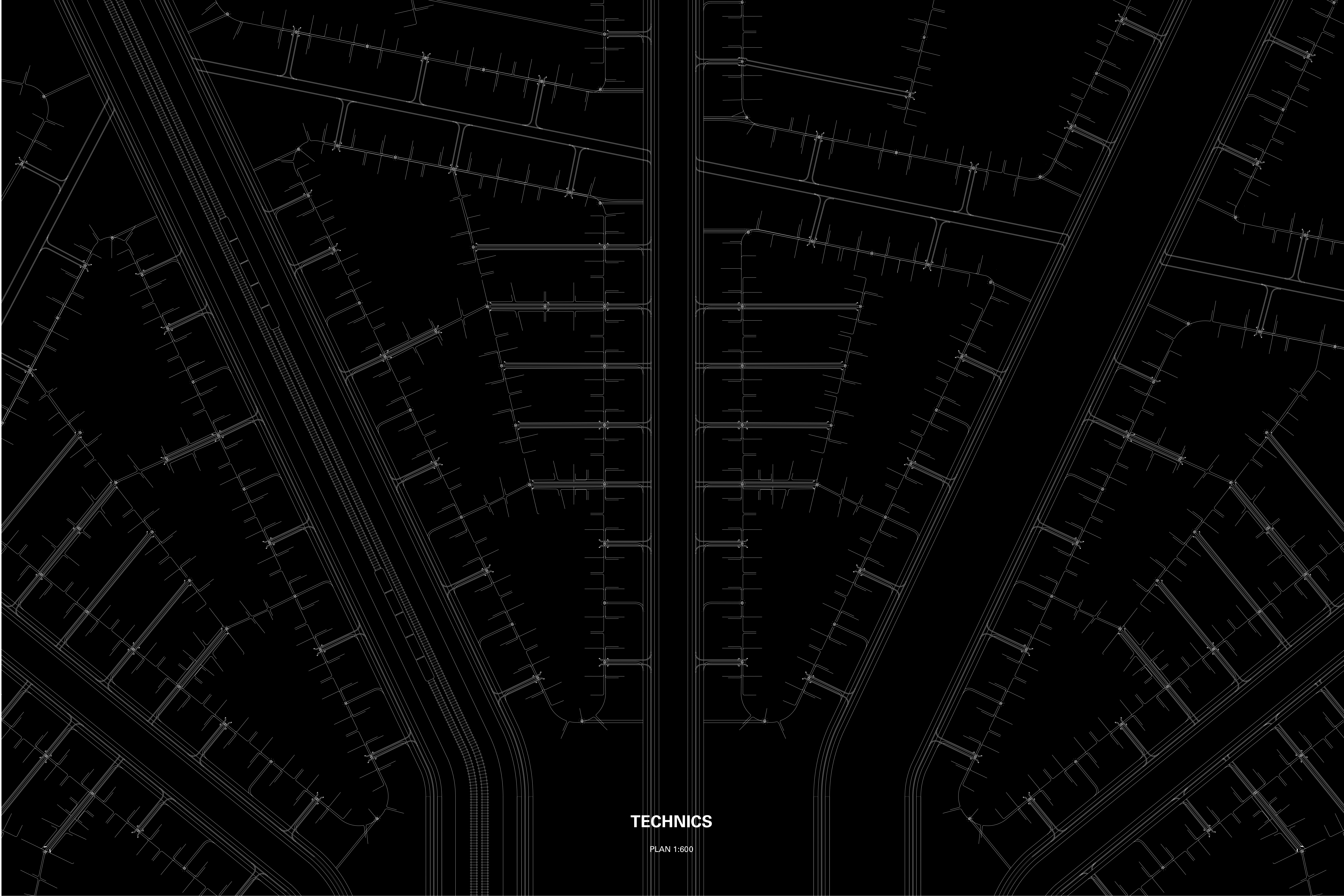
BLOCK DIVISION

SCHEME



PLACE DE NATION, 1888

1:600

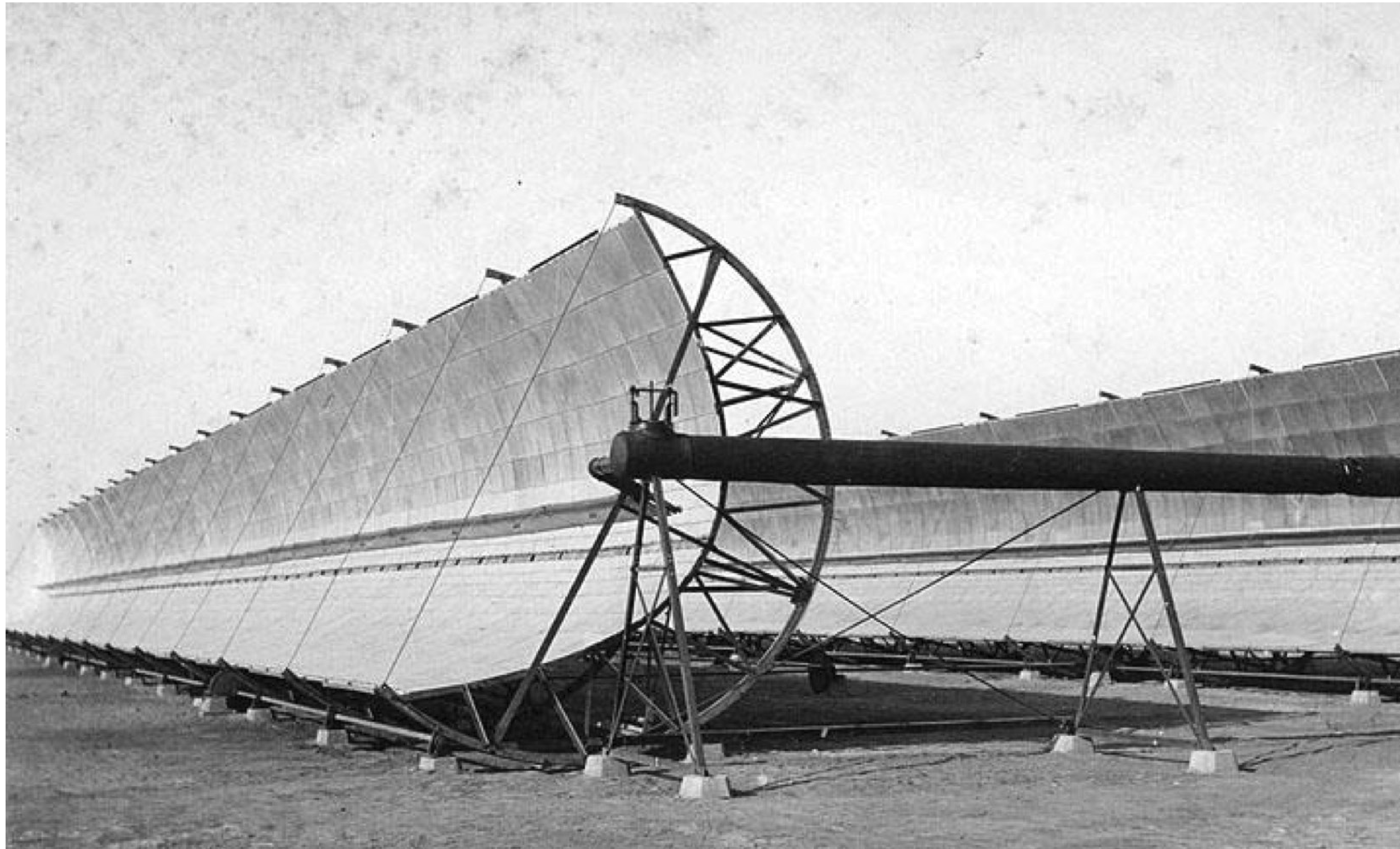


TECHNICS

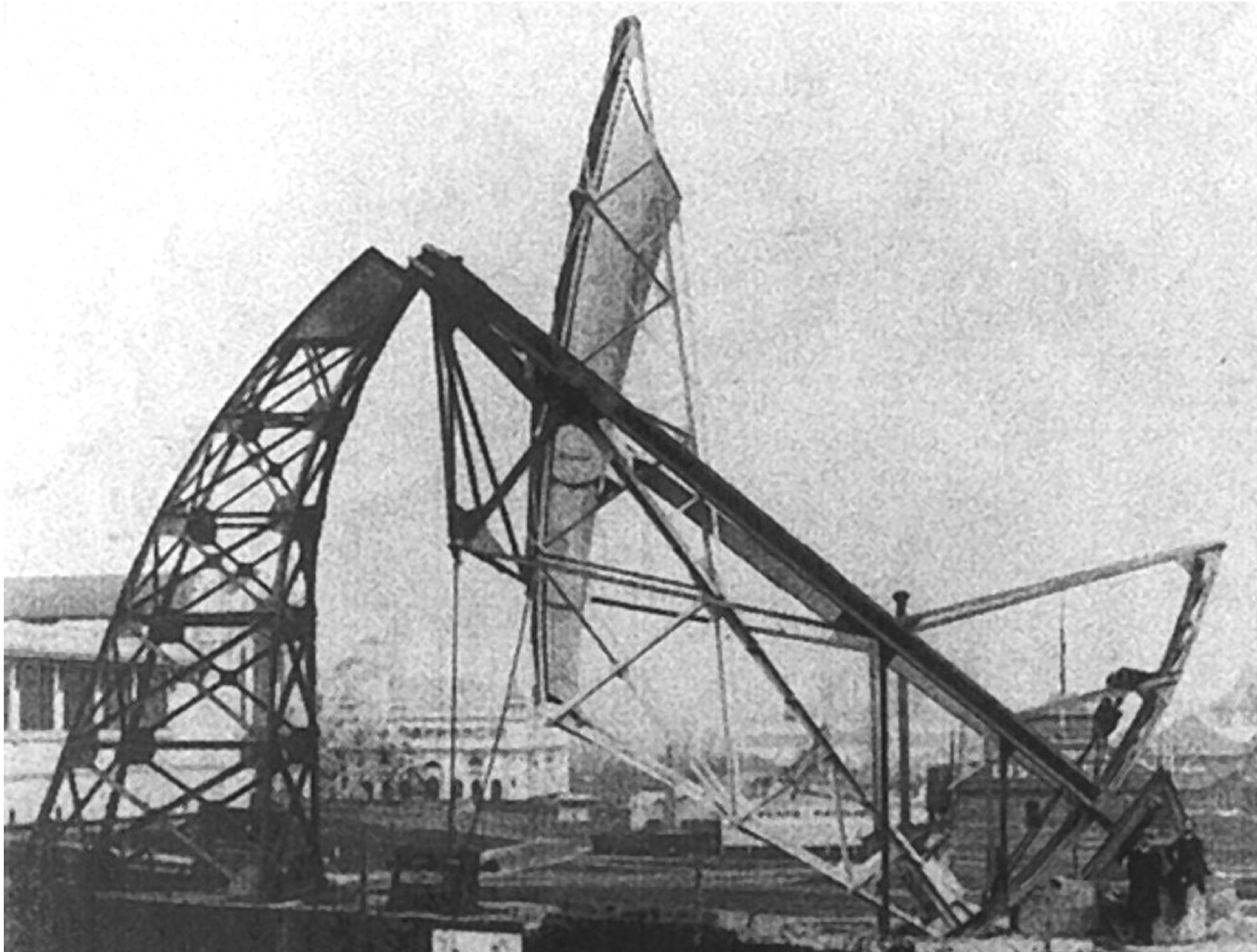
PLAN 1:600



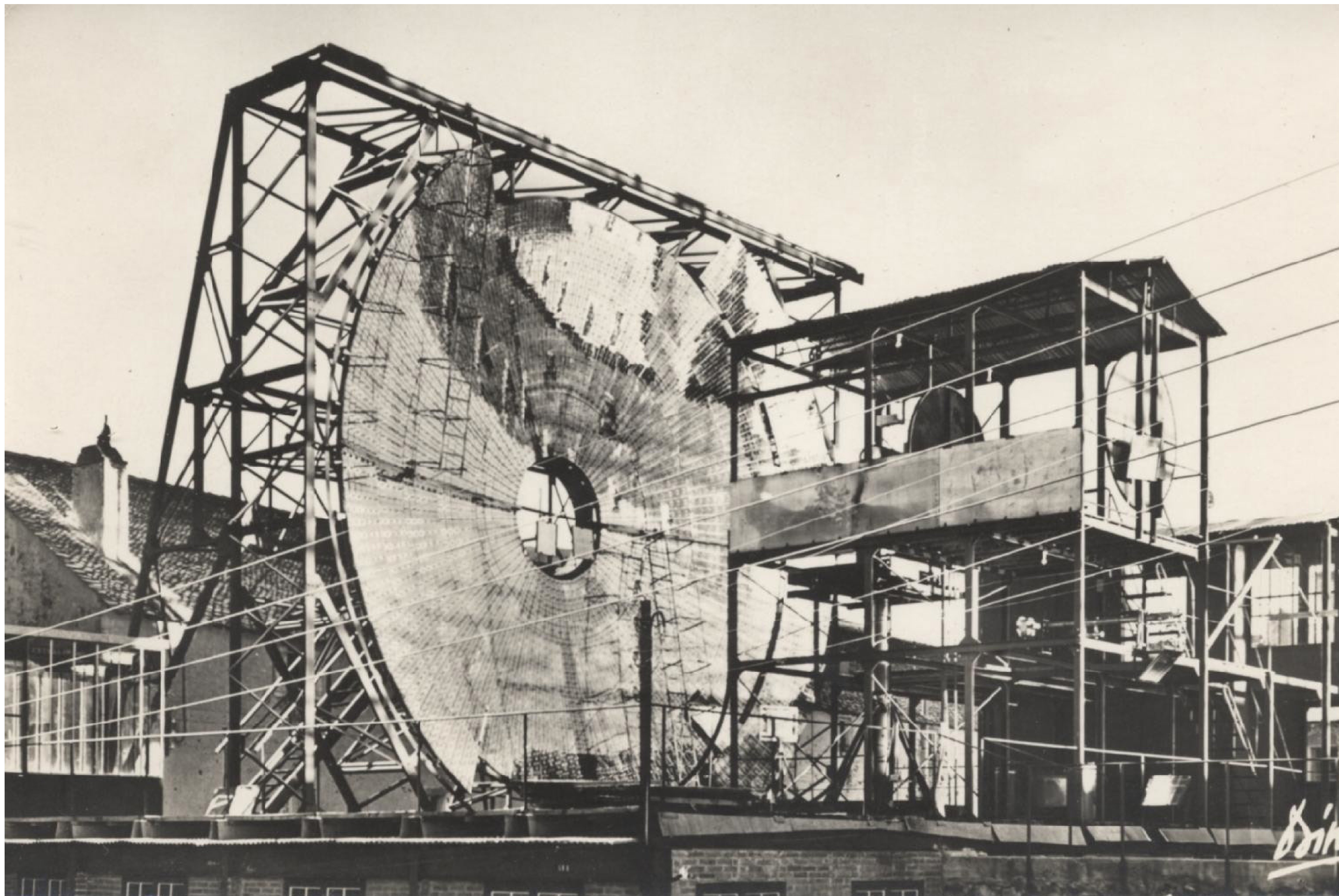
AUBREY ENEAS, SOLAR MOTOR IN PASADENA, CALIFORNIA (1904)



FRANK SHUMAN, PARABOLIC COLLECTORS IN MAADI, EGYPT (1904)



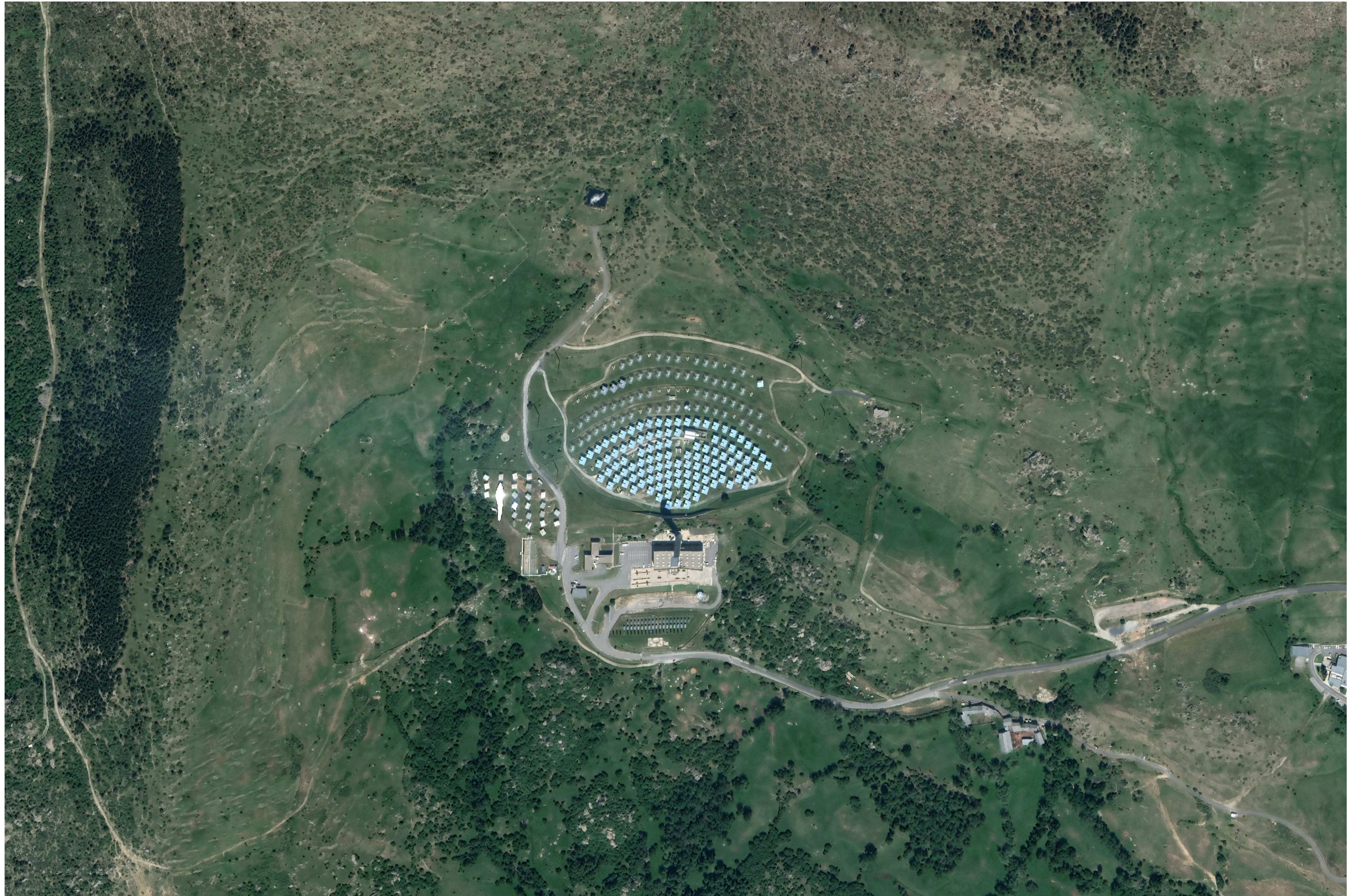
PADRE HIMALAYA, "PYREOLOPHORE" IN ST. LOUIS, MISSOURI (1904)



FELIX TROMBE, SOLAR FURNACE IN MONT LOUIS, FRANCE (1949)



GIOVANNI FRANCA, SOLAR POWER PLANT WITH POWER TOWER IN SANT'ILARIO, ITALY (1965)



GOOGLE EARTH, THEMIS SOLAR POWER PLANT WITH POWER TOWER IN TARGASSONE, FRANCE (1983)

And the question is begged, what happens to today's green building when future innovations render its performance substandard?

DANIEL ABRAHAMSON, FROM OBSOLESCENCE TO SUSTAINABILITY, BACK AGAIN AND BEYOND (2012)