graduation P5

Embrace diversity: (un)divided Hebron

COEXISTENCE THROUGH ARCHITECTURE OF WATER

contents P5

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problem

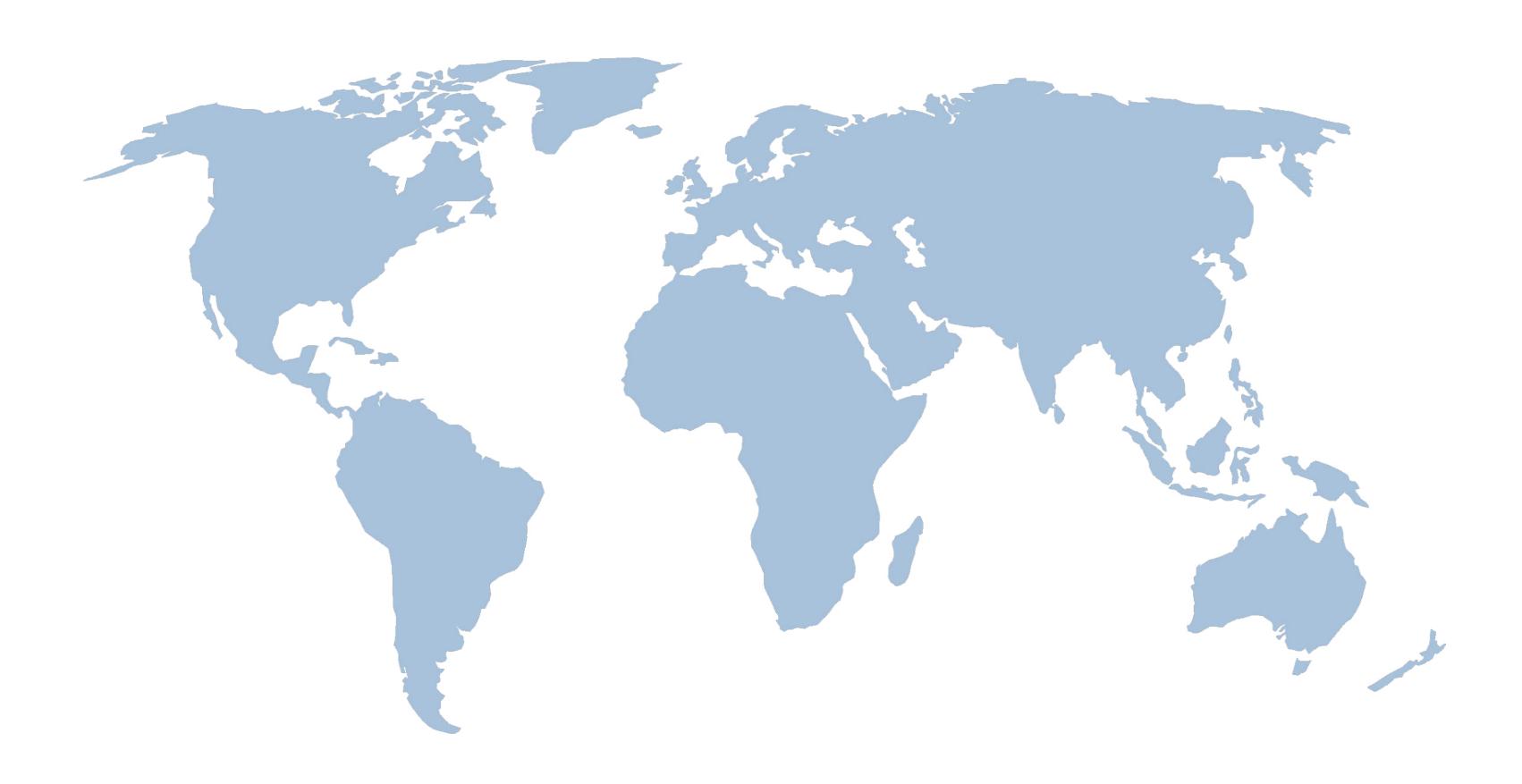
Water scarcity in the world

Water as the source of life: valuable to fight for

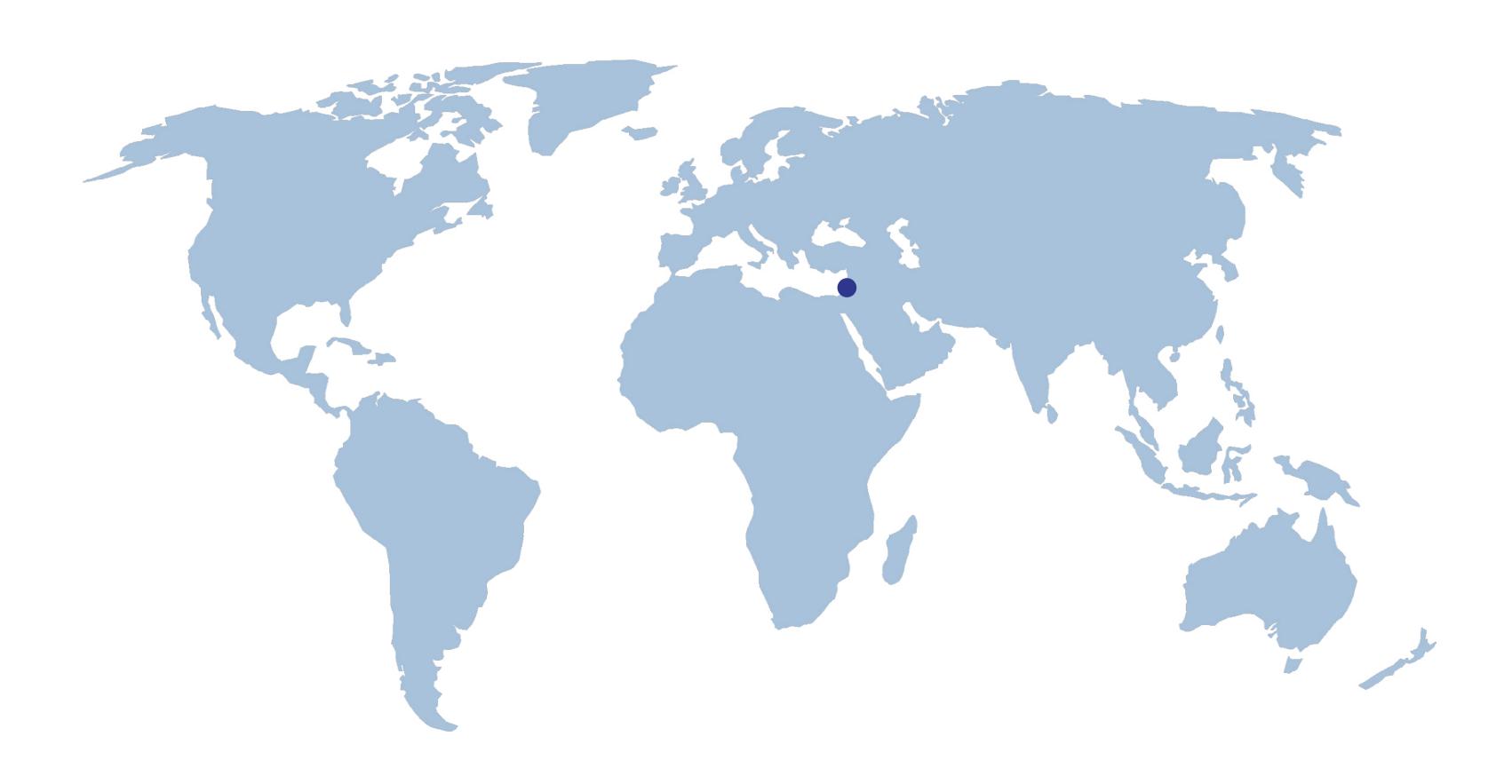
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War over Water - example 1964-1967 Israeli-Palestinian conflict

focus location



focus location



focus location



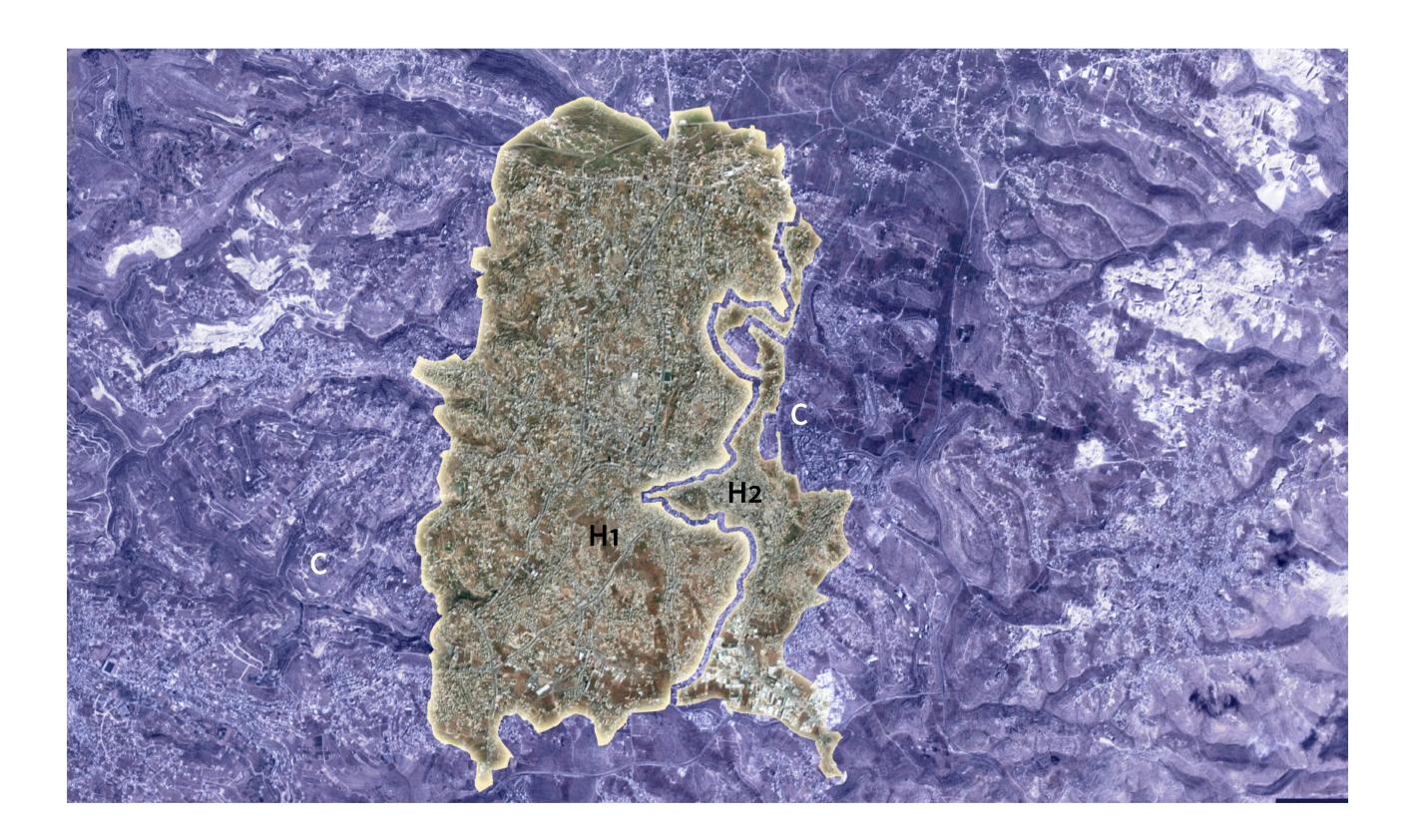
location

hebron

hebron



hebron



h1

h2

background

Hebron pre-1929: **peaceful coexistence** of social groups

1948: declaration of independence of the **State of Israel**

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1967: Arab-Israeli War, start of Israeli **occupation of Palestine**

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1993: Oslo peace talks, definition of boundaries and other impacting agreements (Arafat-Peres, Arafat-Netanyahu)

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from 2000: building of walls for 'protection and security'



hebron

"Never was it this bad in Hebron, microcosm of the occupation"



hebron

"Some families in Hebron have been without water for over 40 days"

- Local Palestinian Journal



research

control areas of the west bank

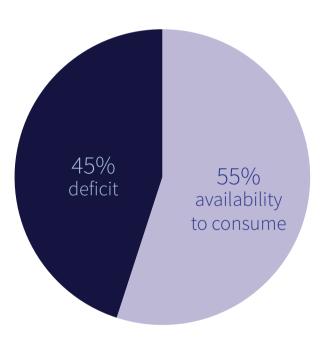




water allocation in israel and the palestinian territories

PALESTINIAN WATER CONSUMPTION in relation to WHO minimum

in relation to WHO minimum standard of 150l/c/d



research

spaces of conflict and opposition through water and architecture

water as source for mistrust and misunderstanding through 'Hydro-Apartheid' (example: War over Water 1964-1967)

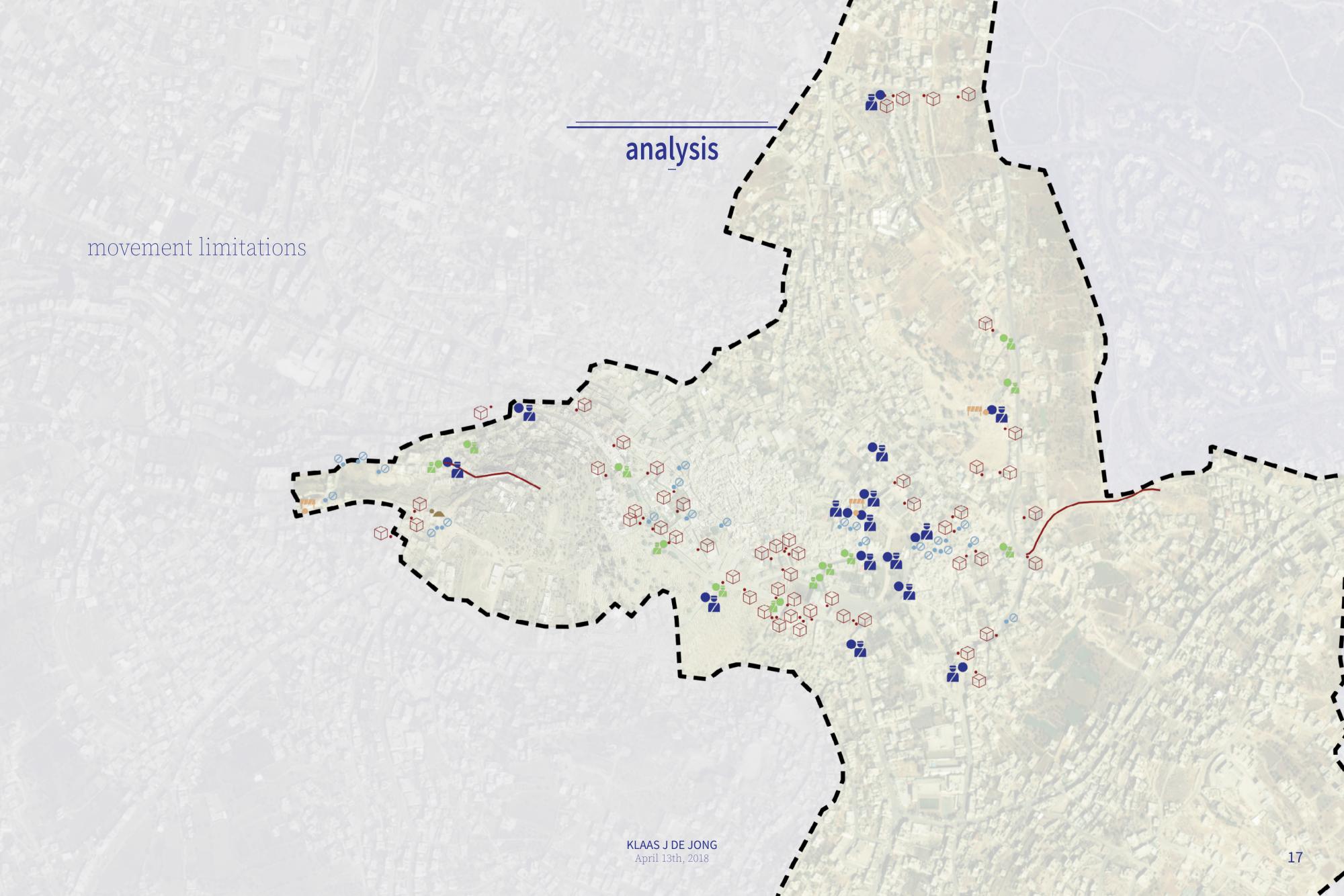
possibilities for e.g. architects through the spatial embodiment of water

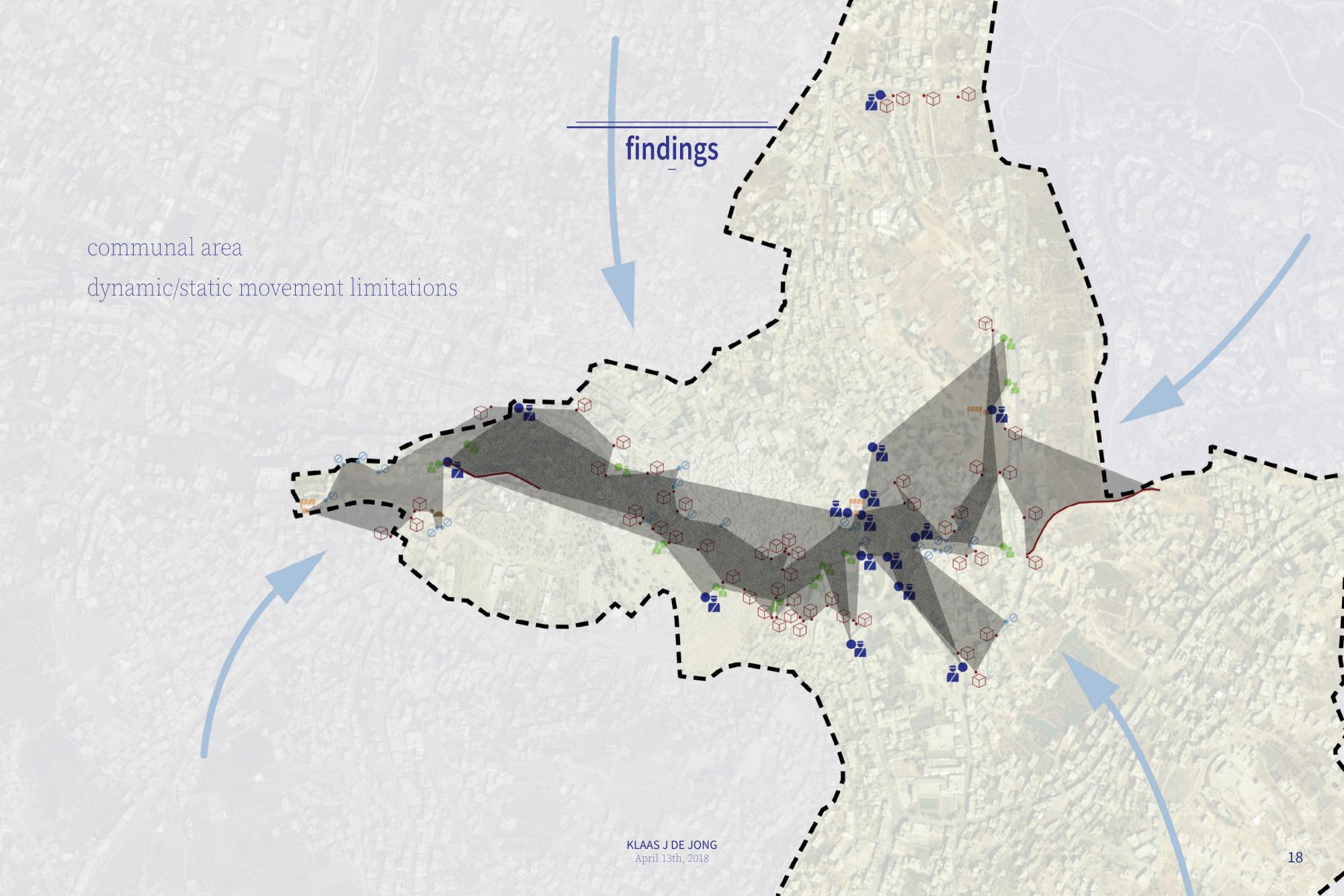
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importance of water systems in communities connection and identification to society creation of spaces to evolve in time

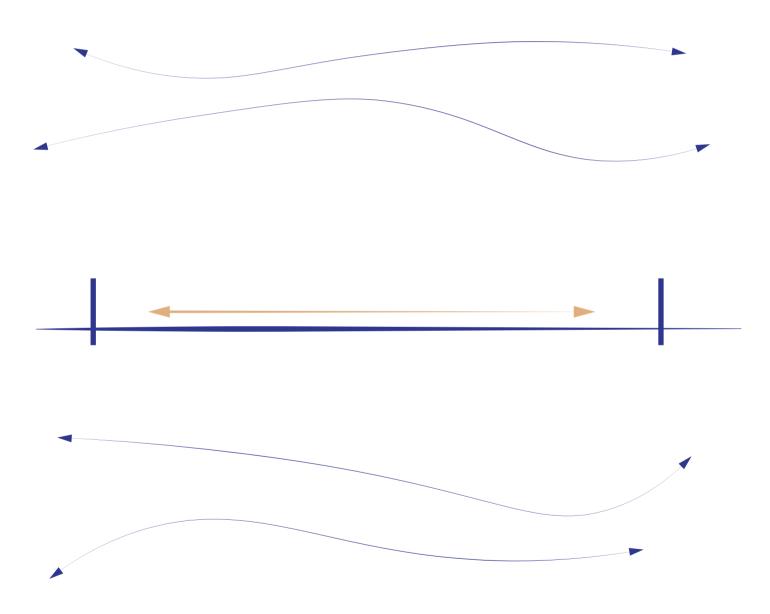
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Portugali (1991; 1992), Weizman (2004; 2006), Newman (1995; 1996; 2002) ,Yaron (1994), Haddad (1998), Zahra (2001), Feitelson & Rosenthal (2012), Khamaisi (2002), Yiftachel & Yacobi (2002), Lefebvre (1991), Harvey (2004), Bier (2017)

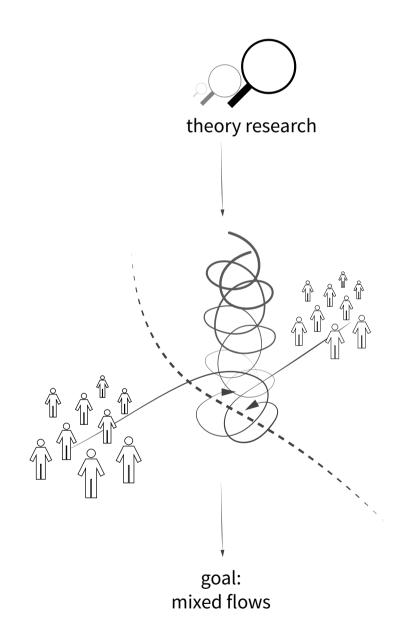


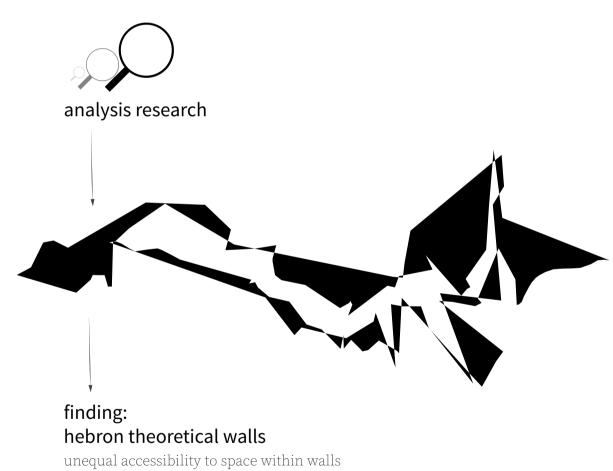


conclusion



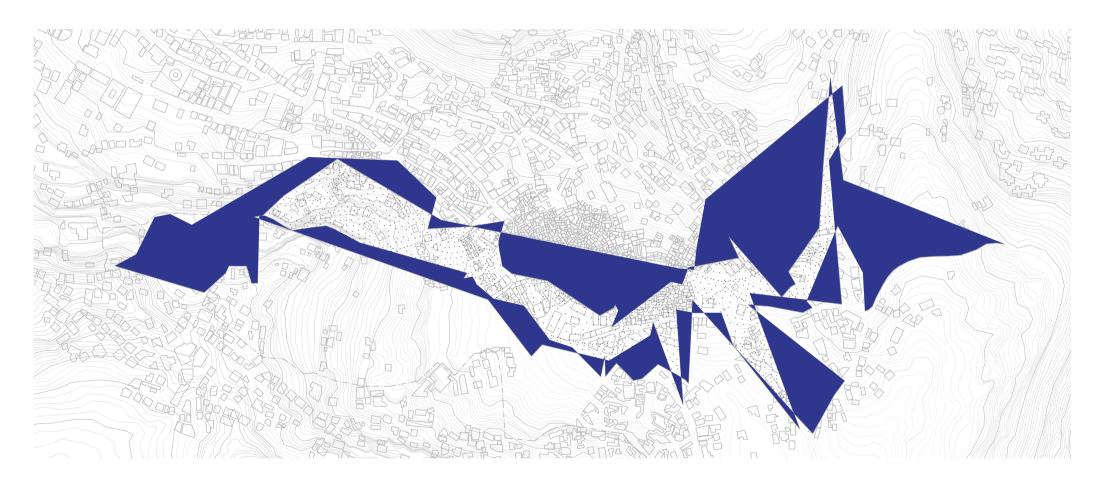
overall concept





unequal accessibility to space within walls static and dynamic conditions of movement limitations

overall strategy



visibility of hebron walls as:

awareness of / reflection to current conditions (perhaps future past conditions) relation between architecture/urbanism and inhabitants' collective identity

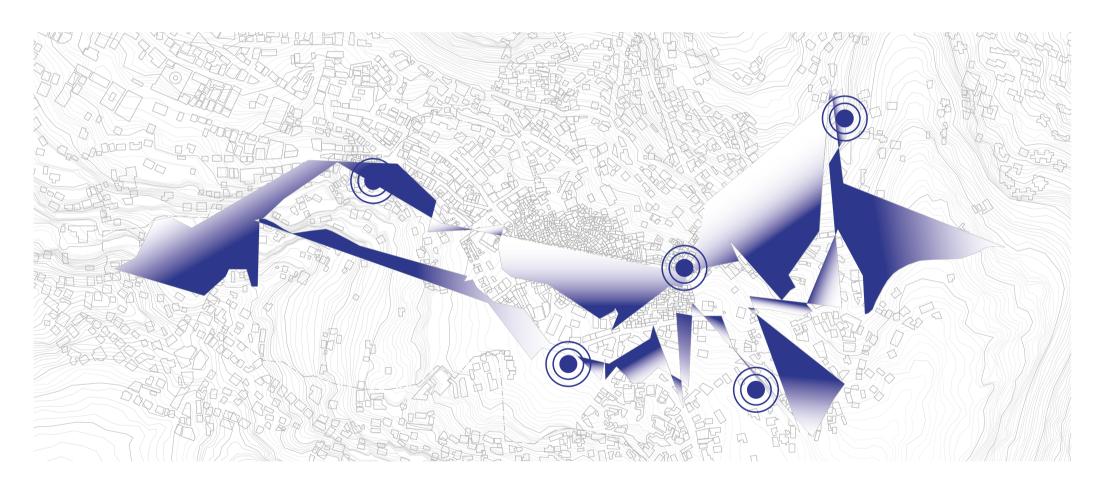
overall strategy



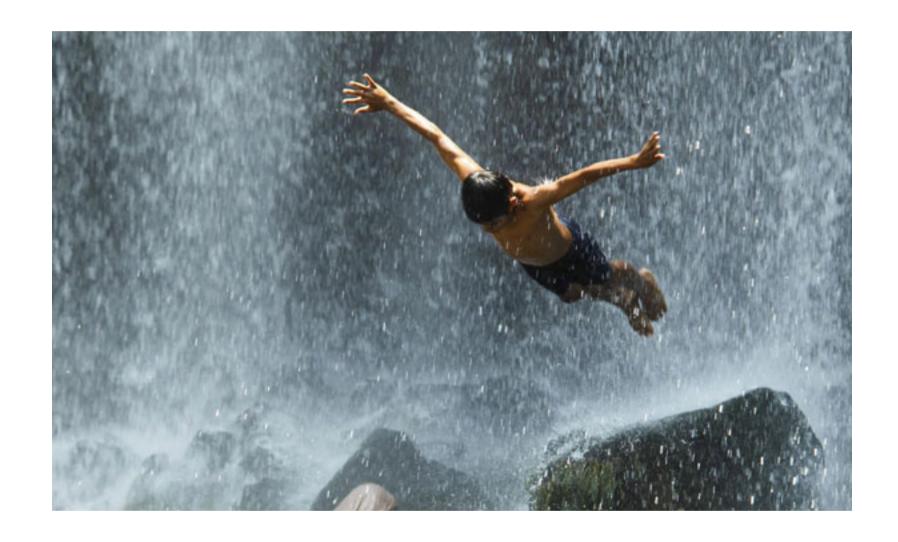
demarcation of space within hebron walls through:

center of commerce house of rights temple of water road of freedom institute of rules

overall strategy



fading and retraction of hebron walls through time



water as the source of life
-directly and indirectly
water as environmental need and factor
water as economical product
water as political instrument
water as substance for joy

lots of potential architecturally







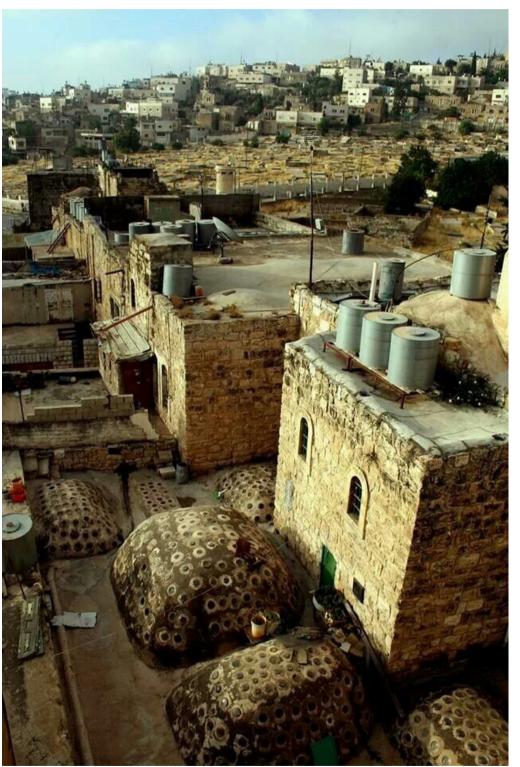




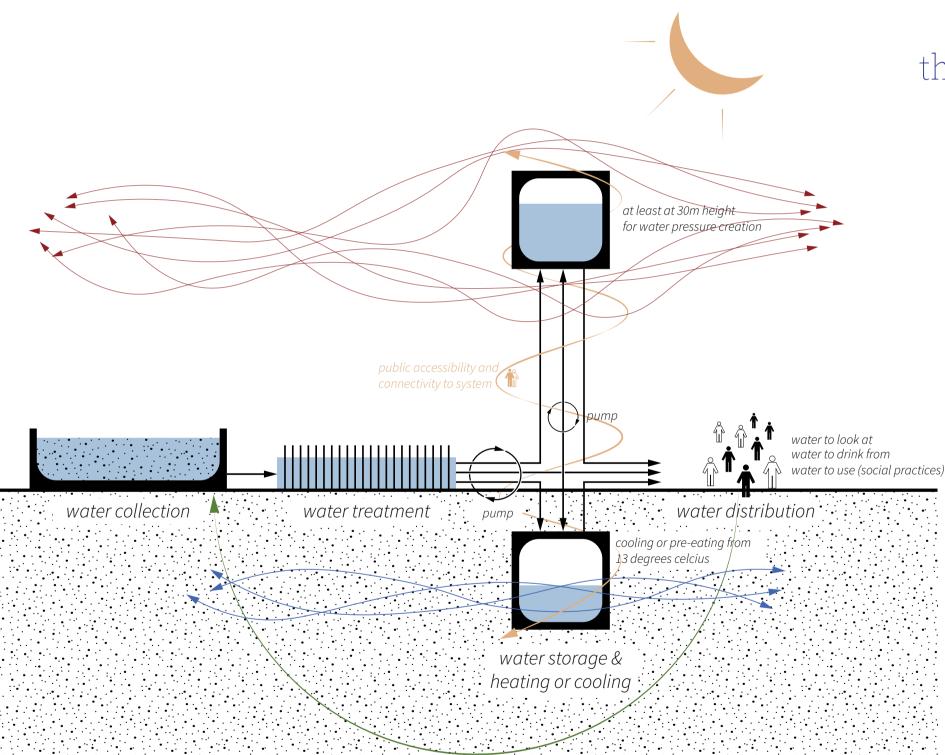








design concept



platform for mixed flows through architecture of water

design relevance



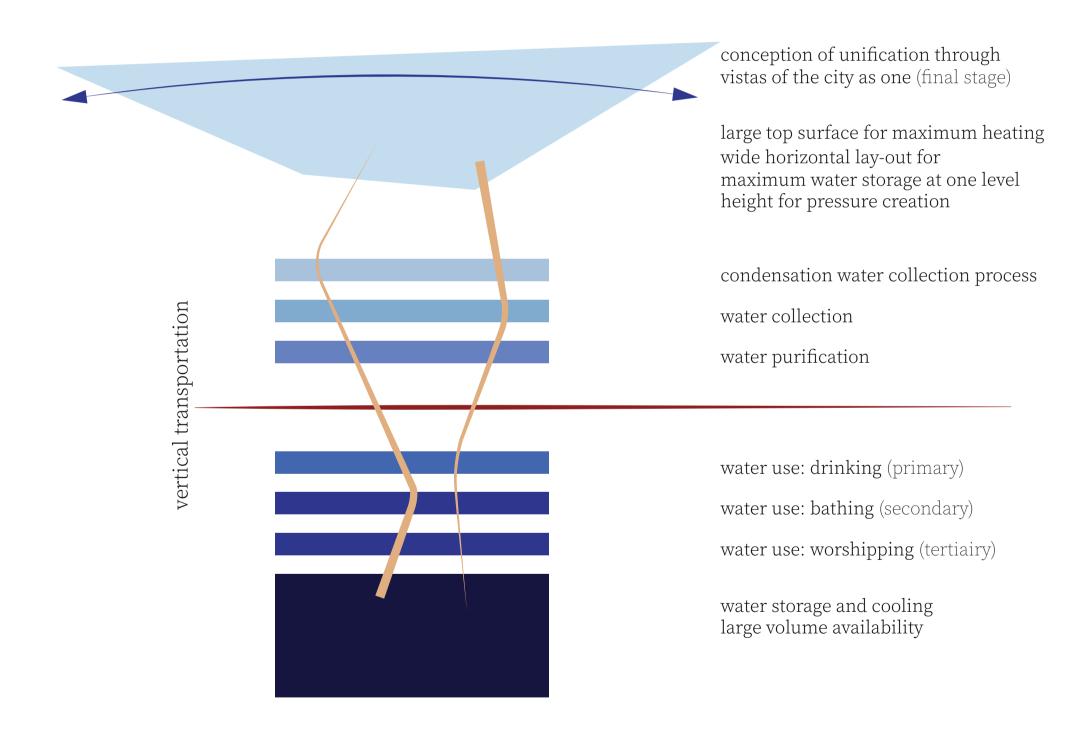
design location



temple of water



idea translation



atmosphere

water for life



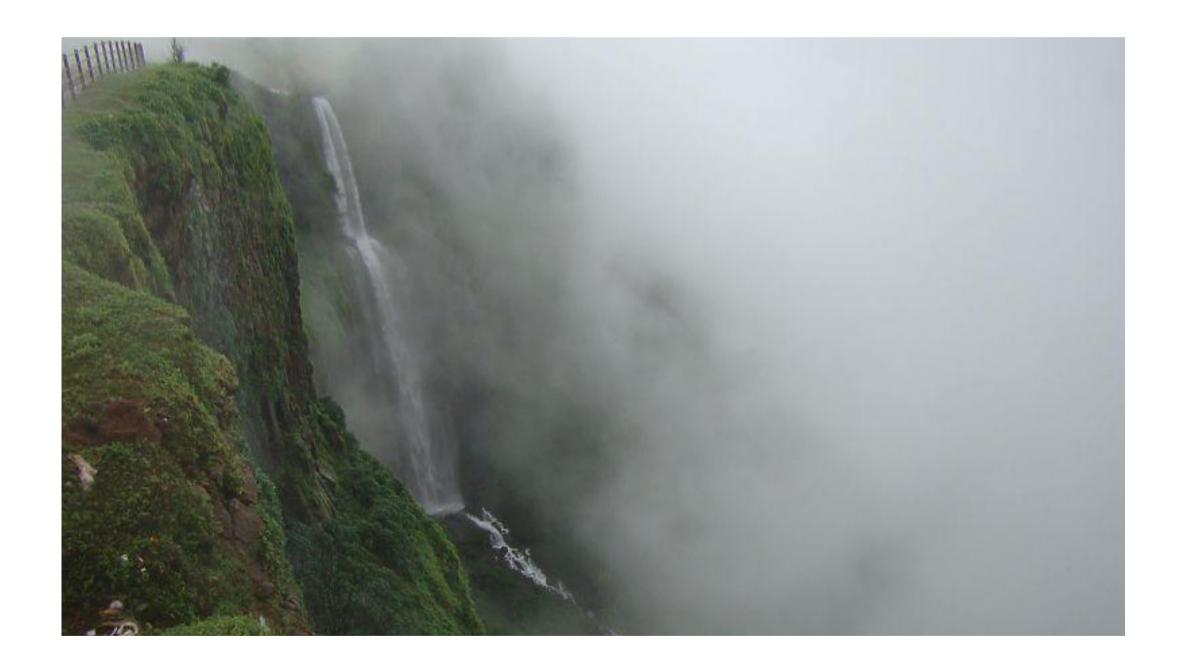
atmosphere

water as spatial element



atmosphere

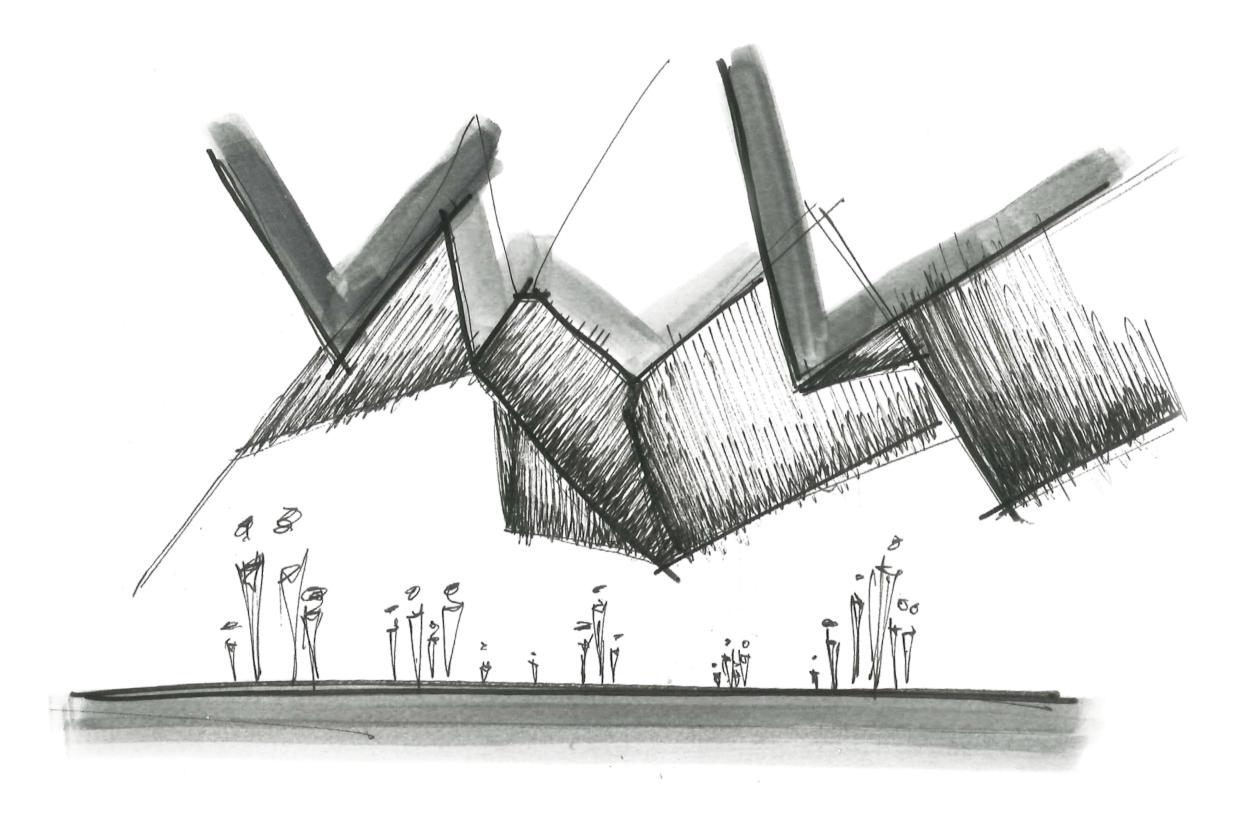
water as climatological factor



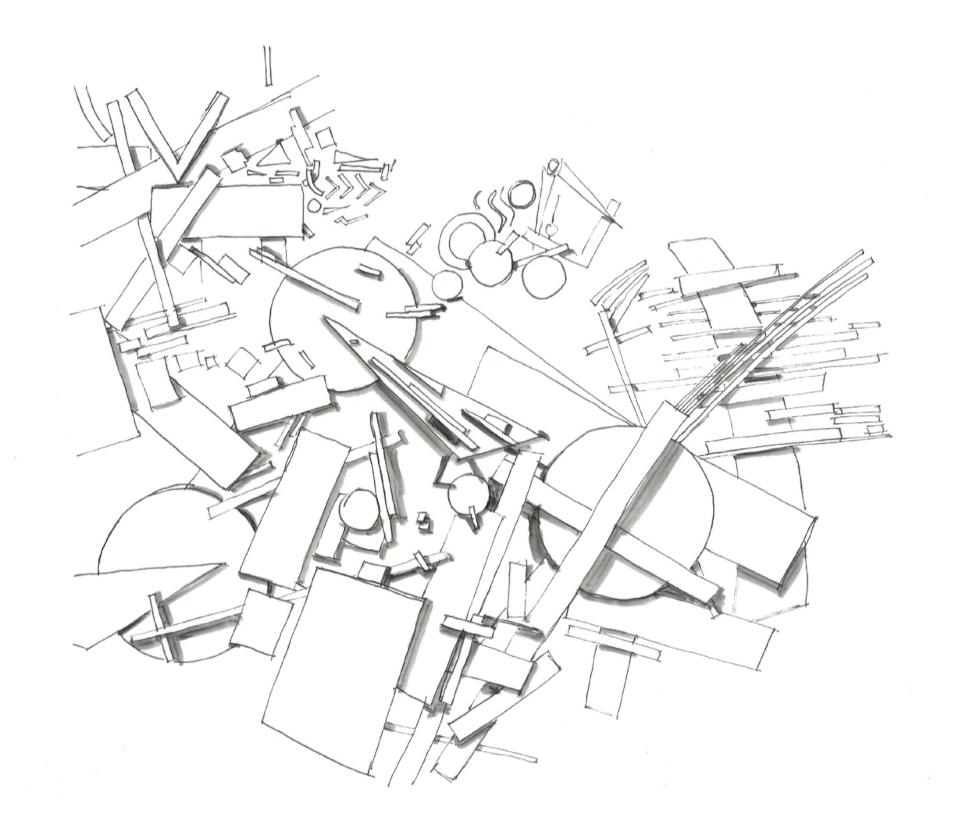
design process



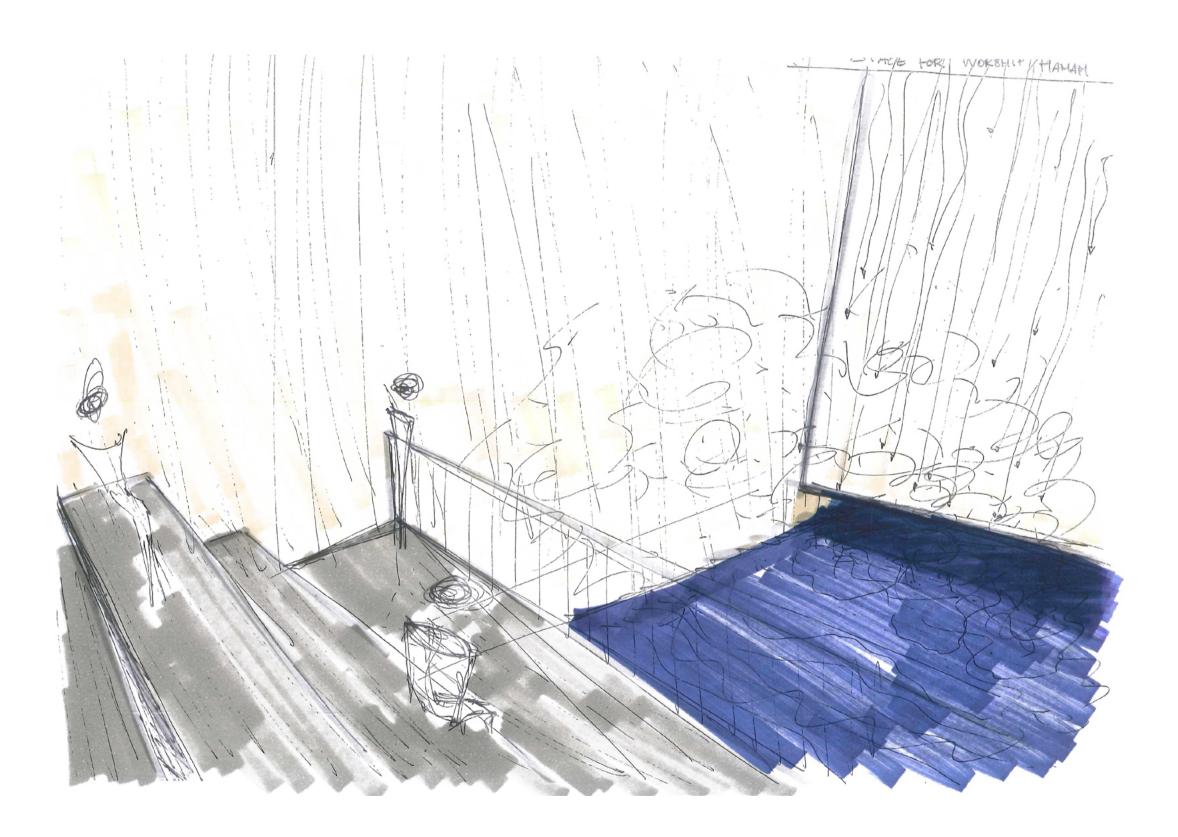
architect study Hans Scharoun



space research design drawings

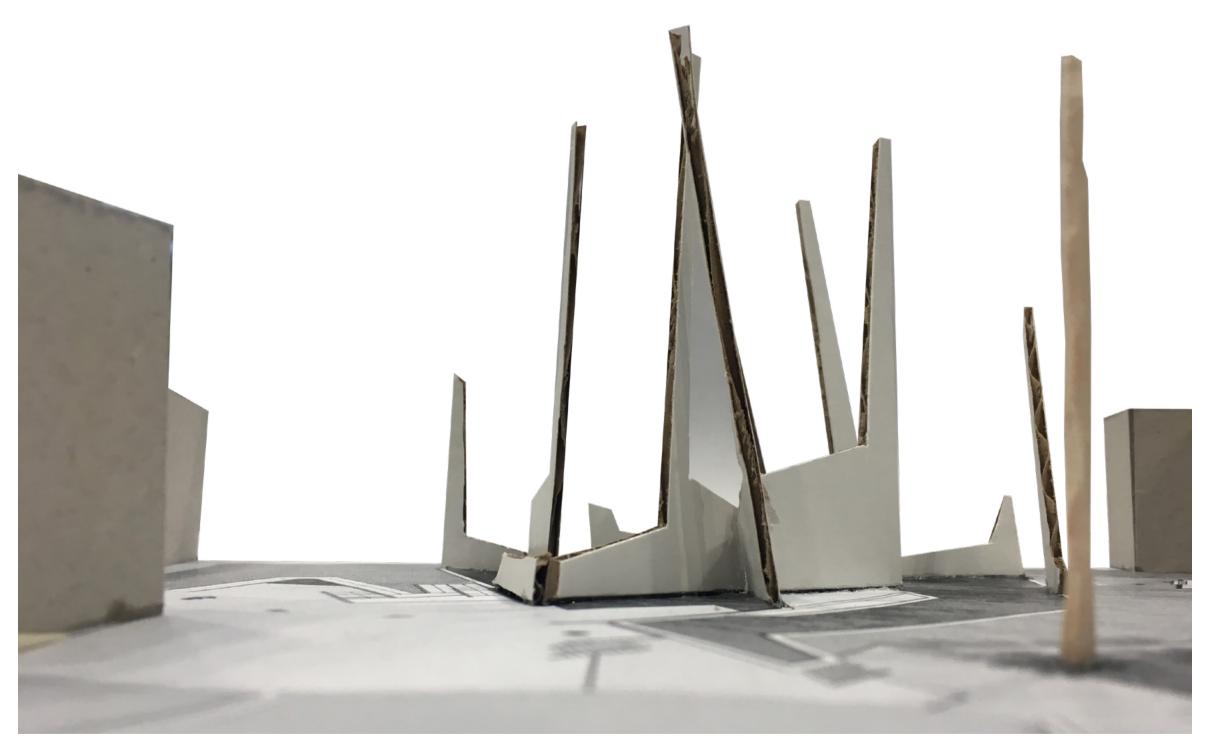


form study interpretations of suprematism

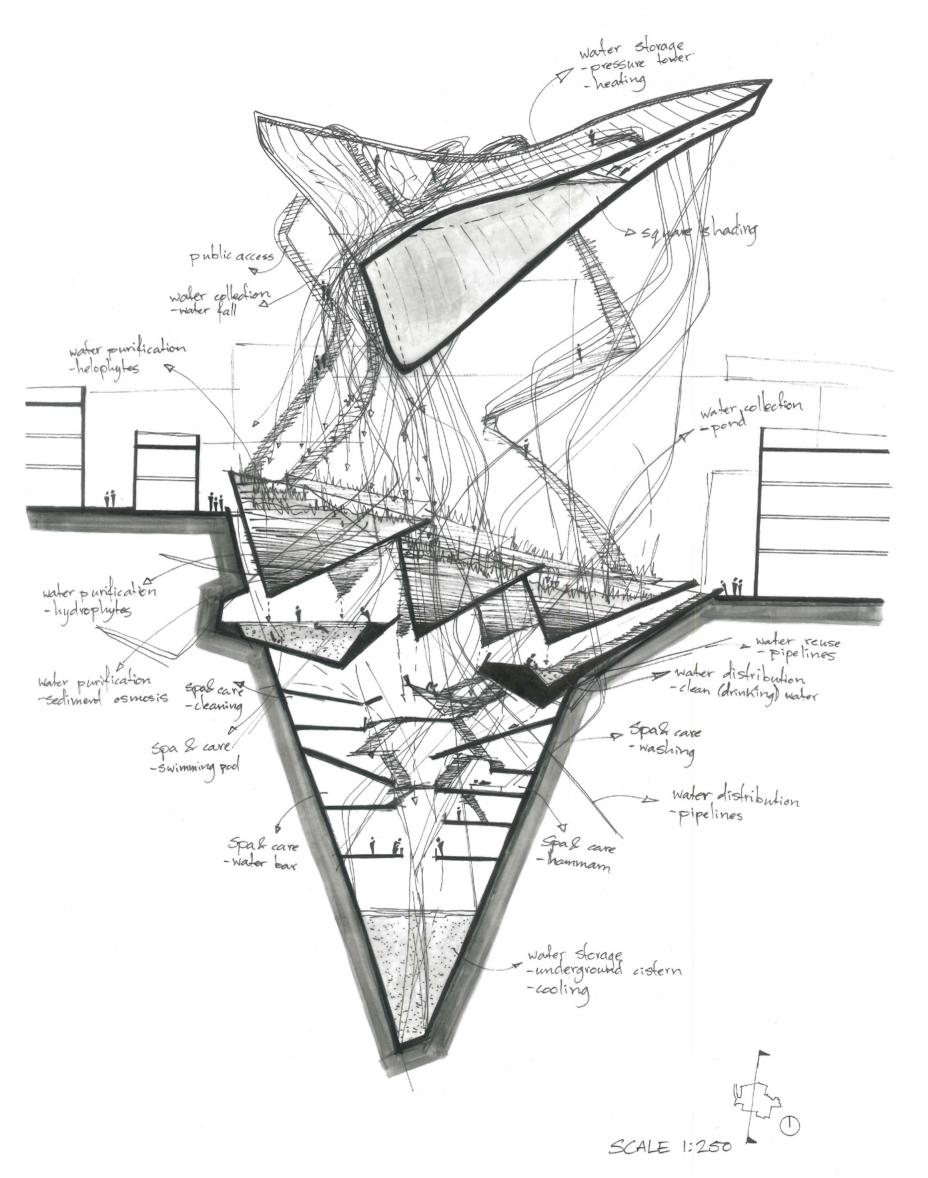


space research 3D sketch visualizations

appearance study sketch models



TRANSVERSAL SECTION



graduation P5

Embrace diversity: (un)divided Hebron COEXISTENCE THROUGH ARCHITECTURE OF WATER





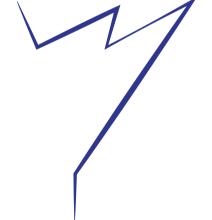
water - communal character in transmutation:

'ma' character



water - communal character in transmutation:

'ma' character



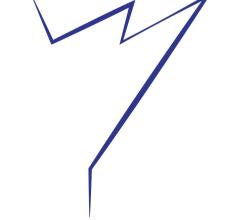
transfiguration - 3 dimensionalisation



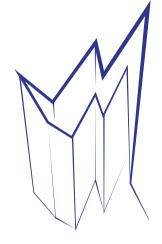


water - communal character in transmutation:

'ma' character

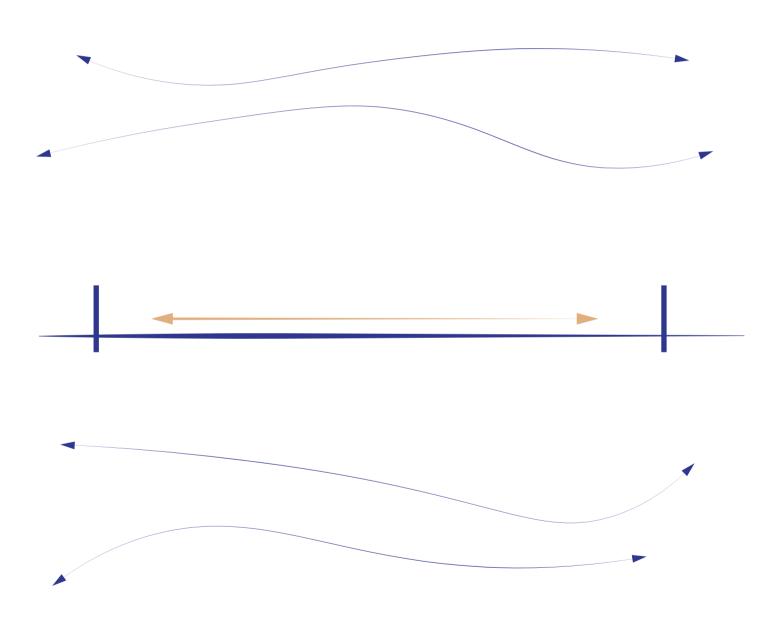


transfiguration - 3 dimensionalisation

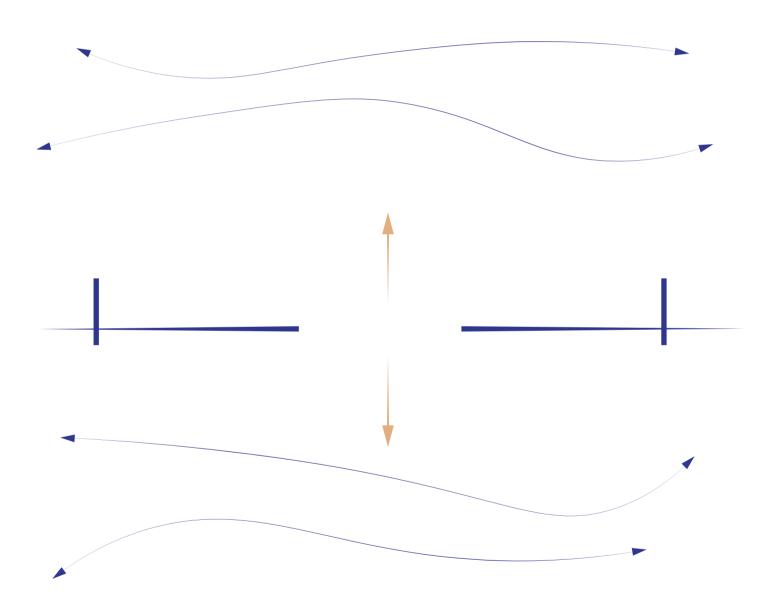


transformation
- materialisation &
texturialisation

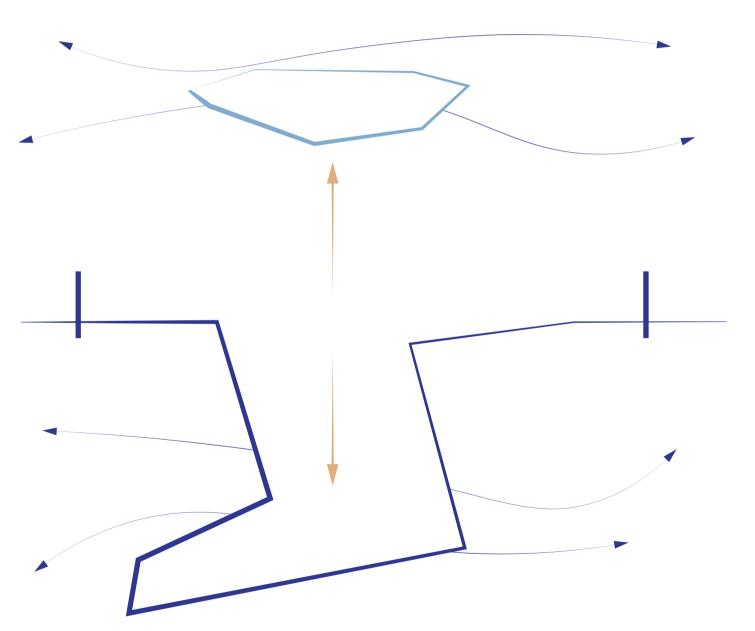




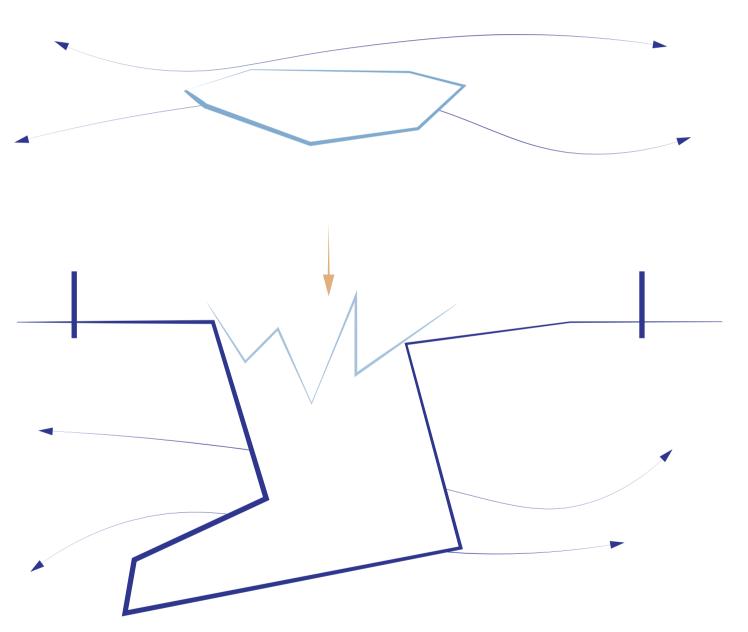
starting situation/horizontal barriers



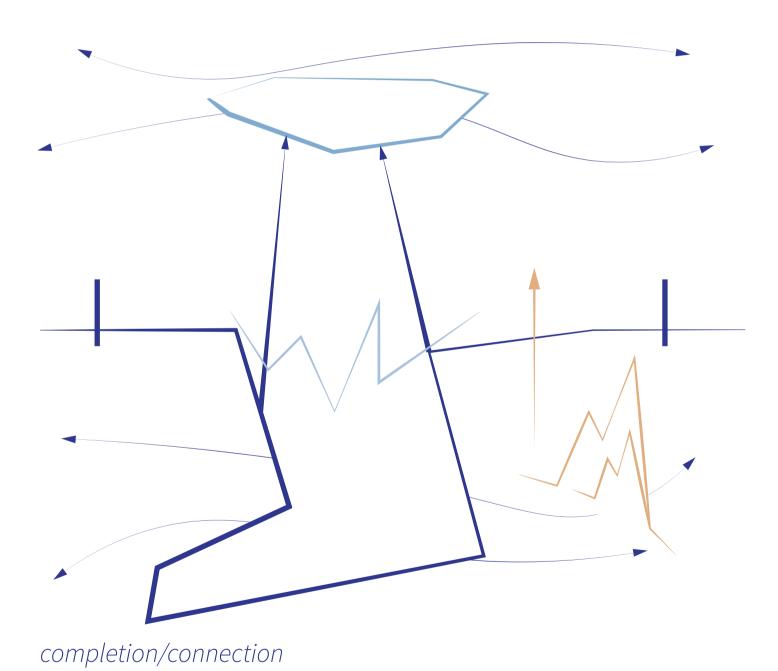
towards space without barriers

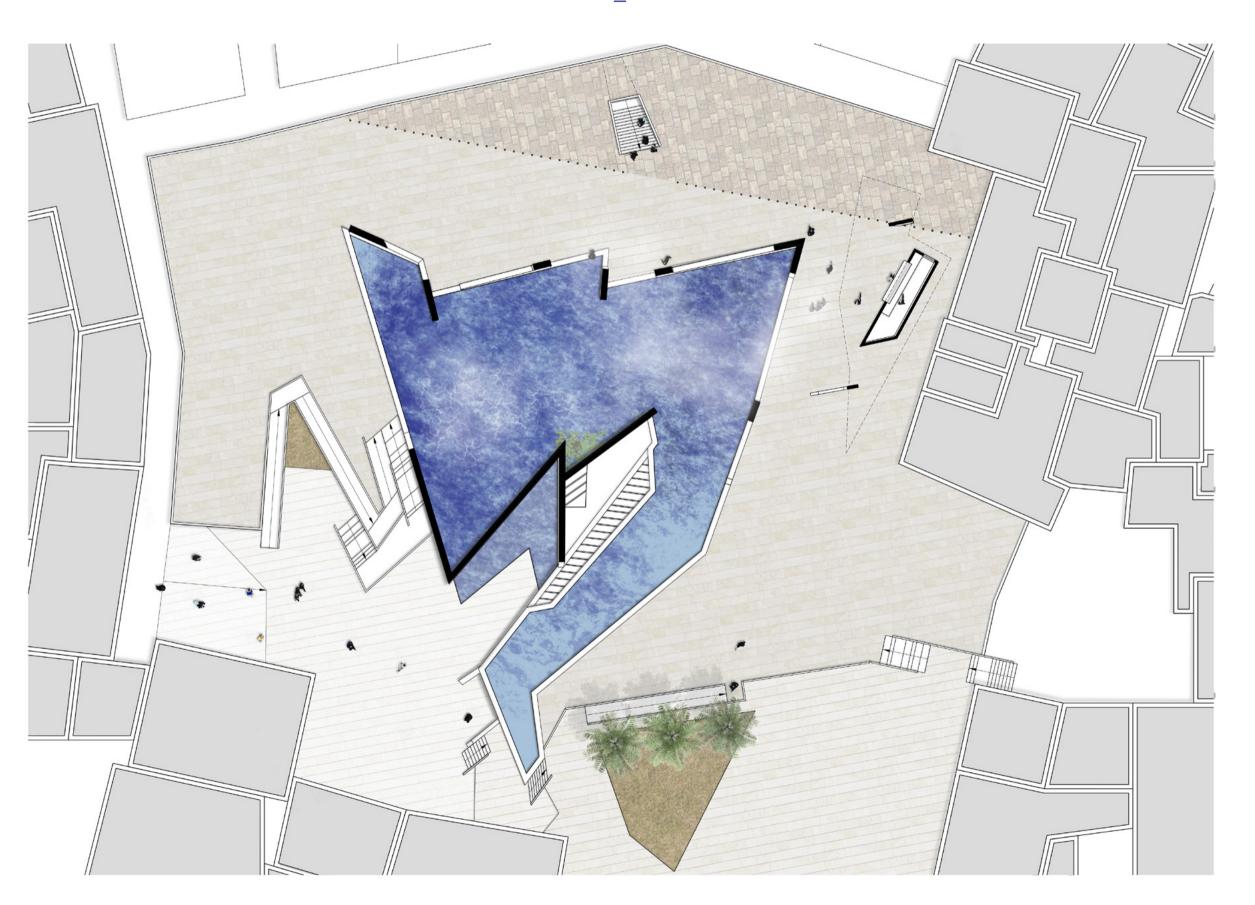


water storage well/water storage tower



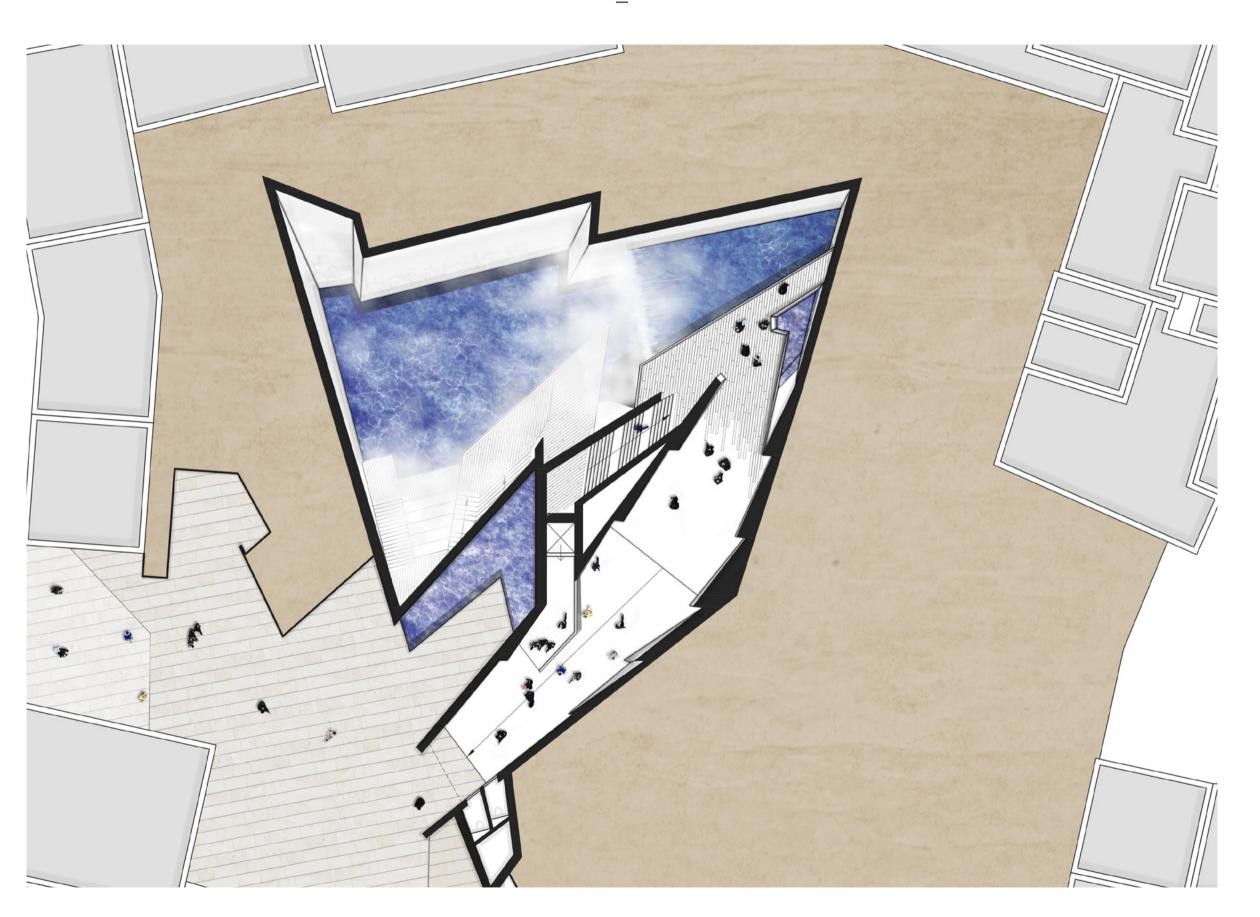
well topping/water purification basin



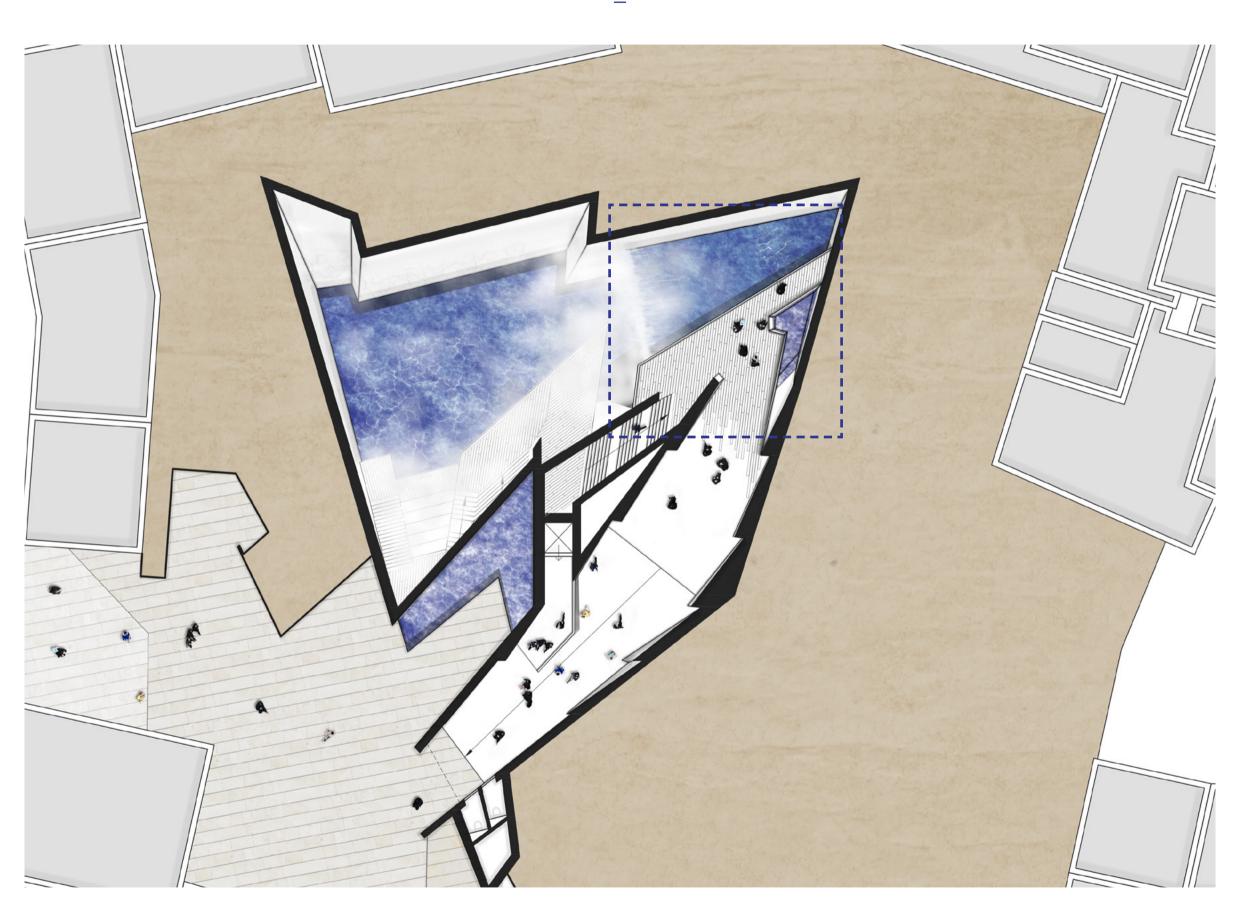


floor plan ground level



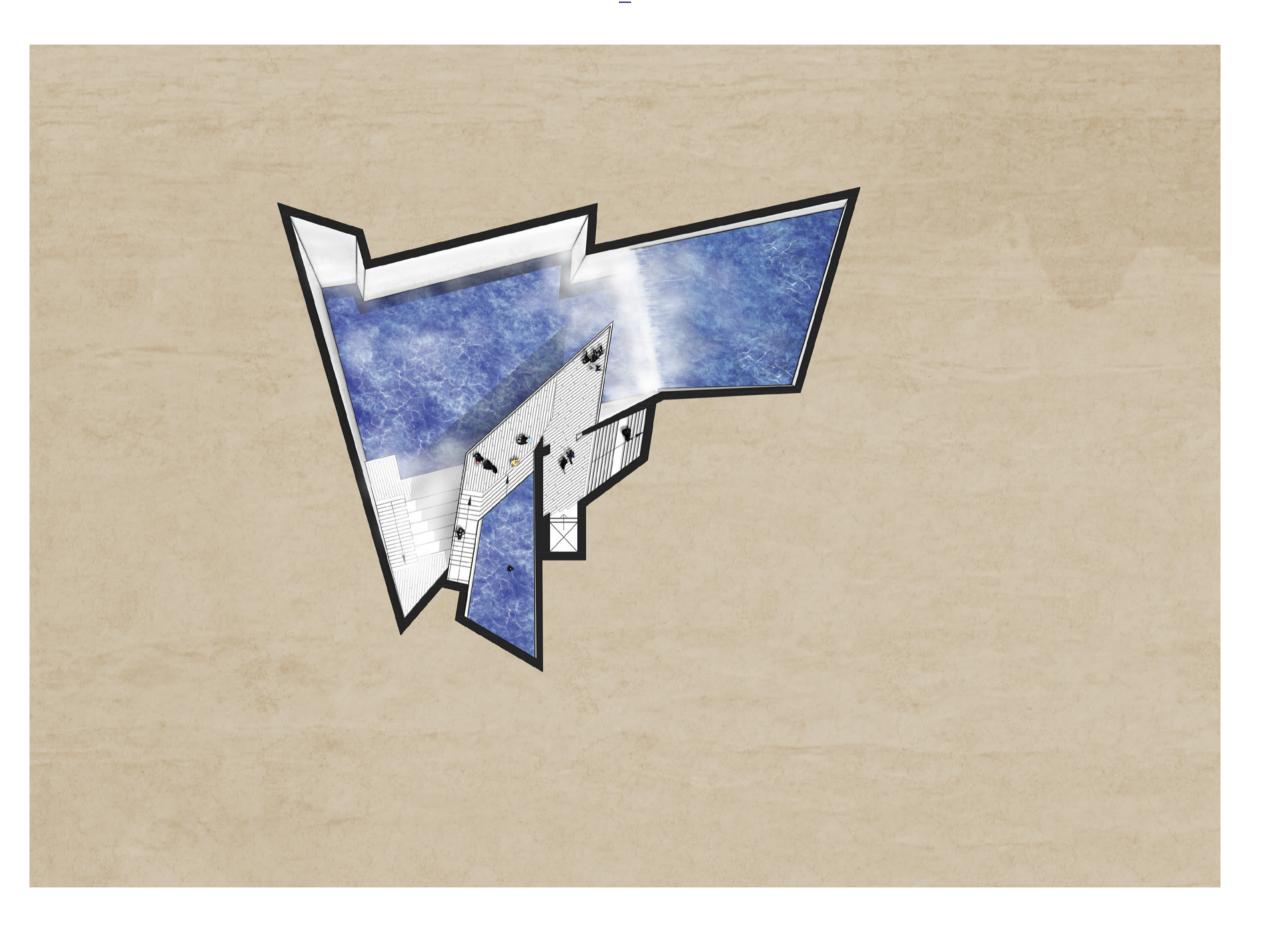


floor plan

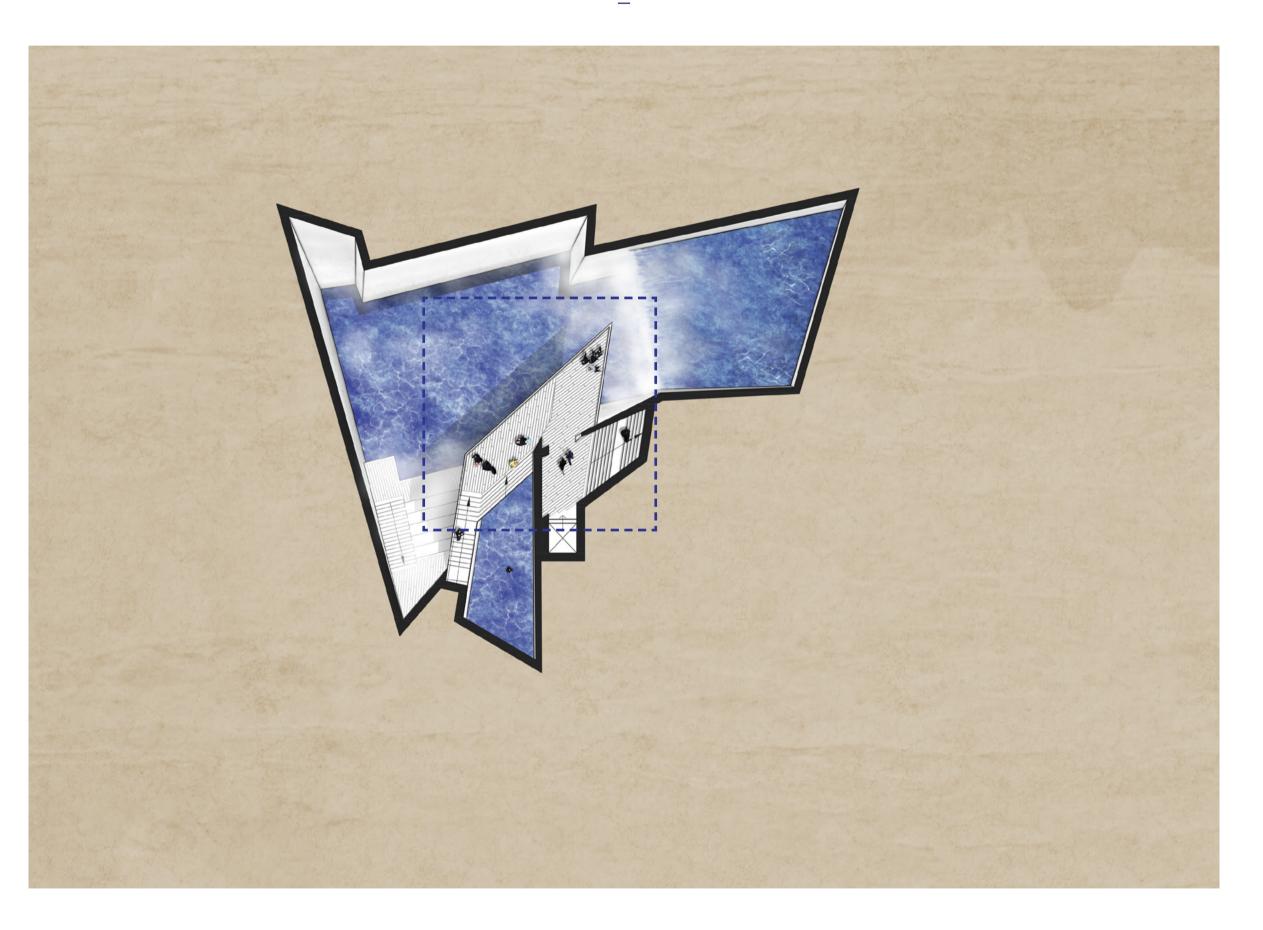


floor plan

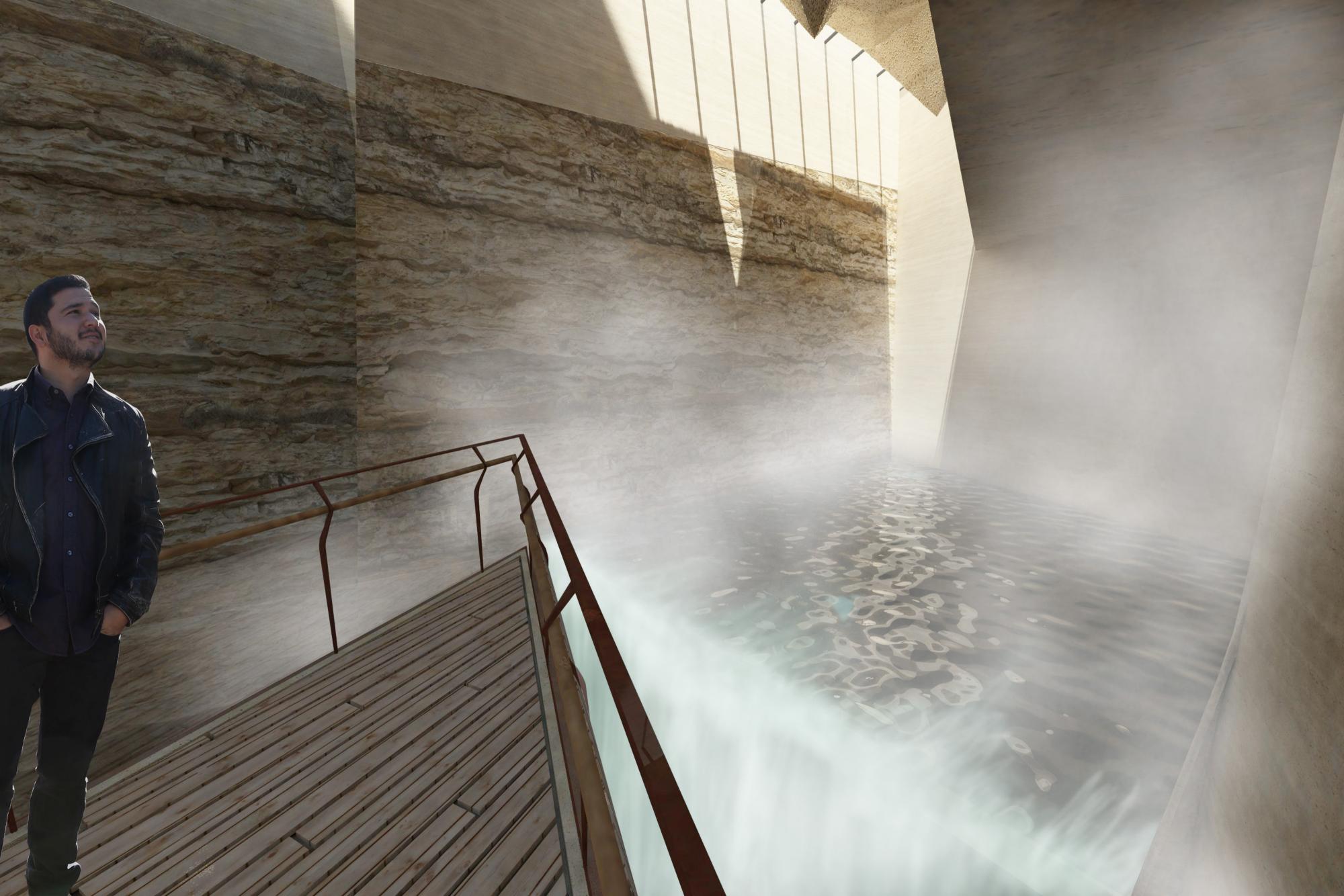


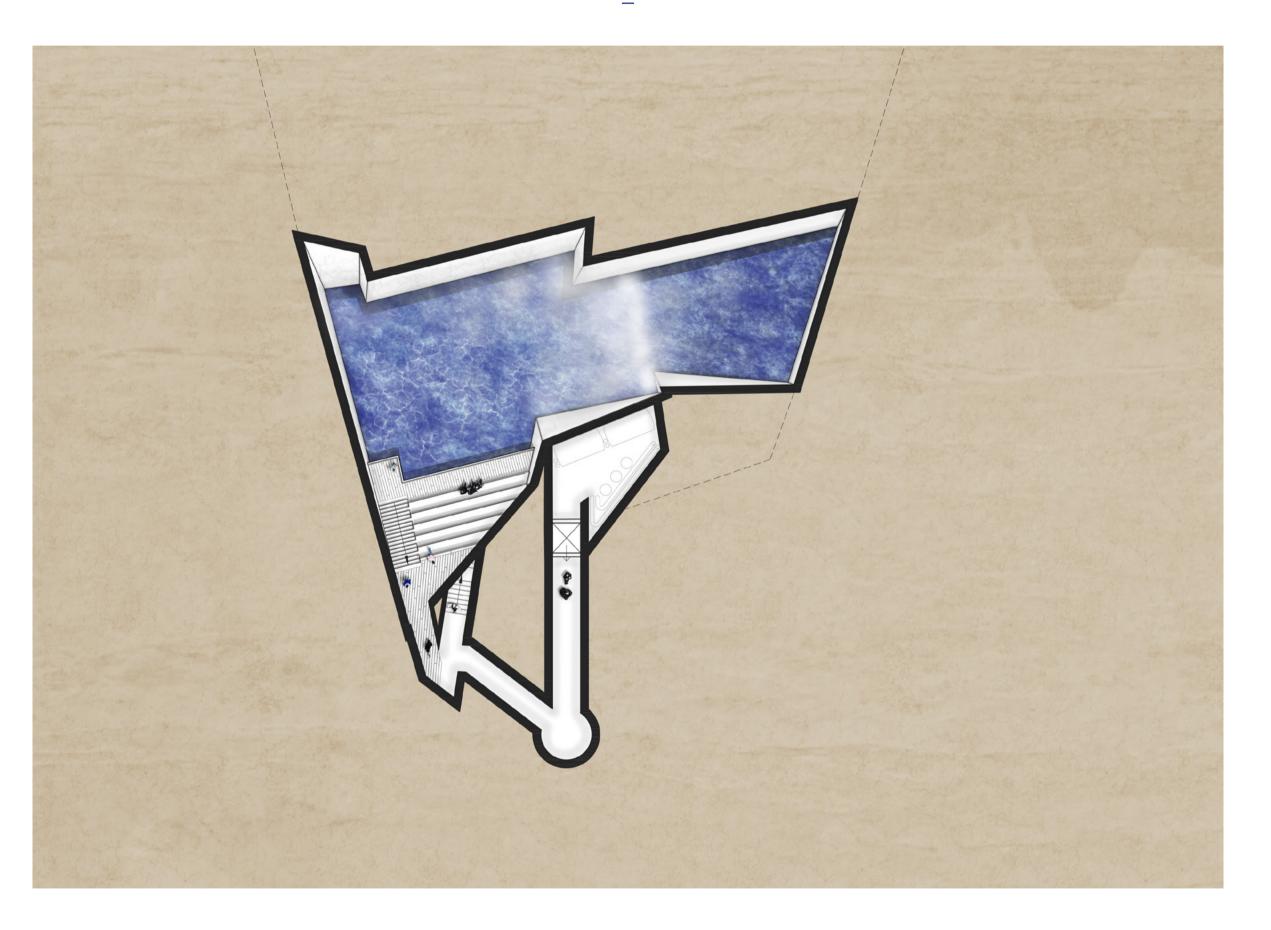


floor plan



floor plan





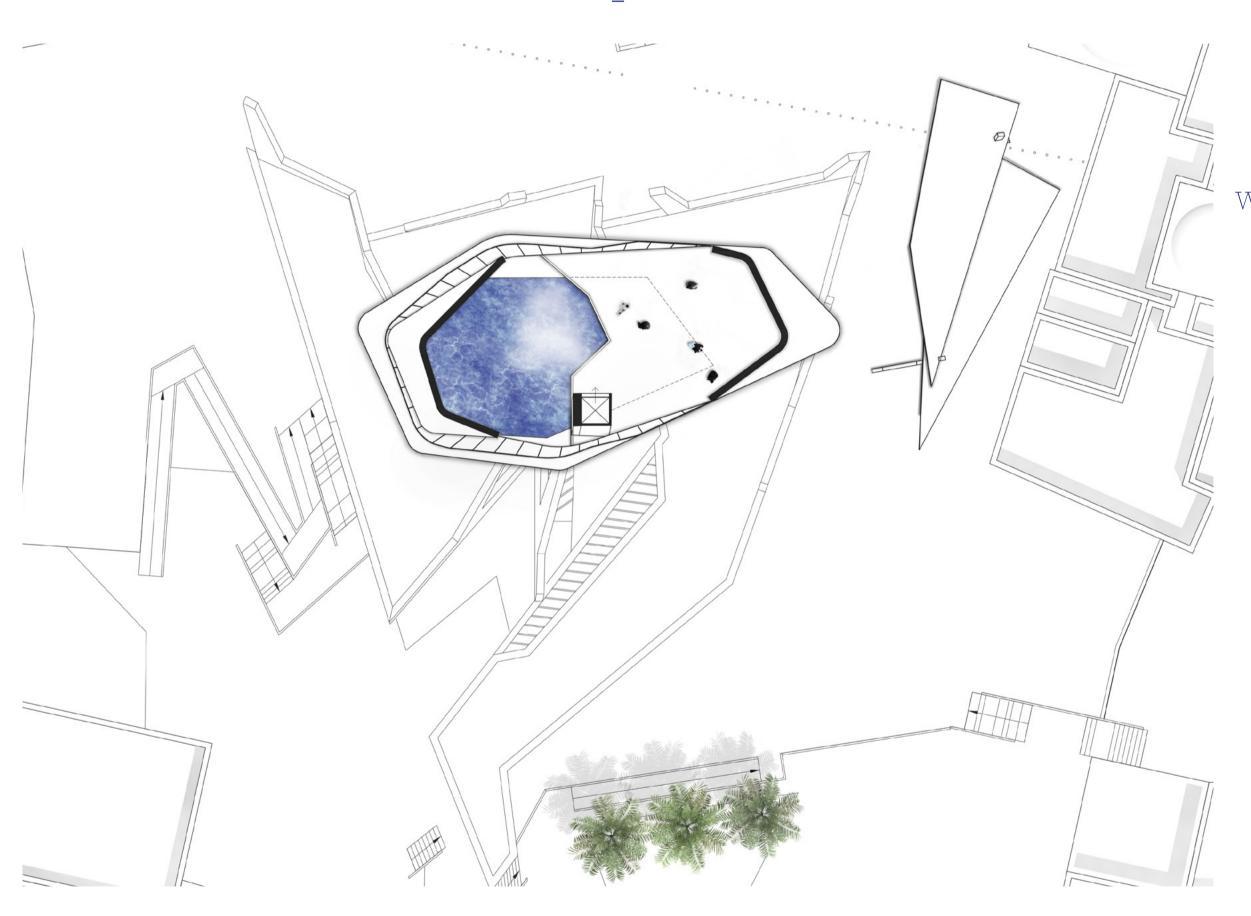
floor plan



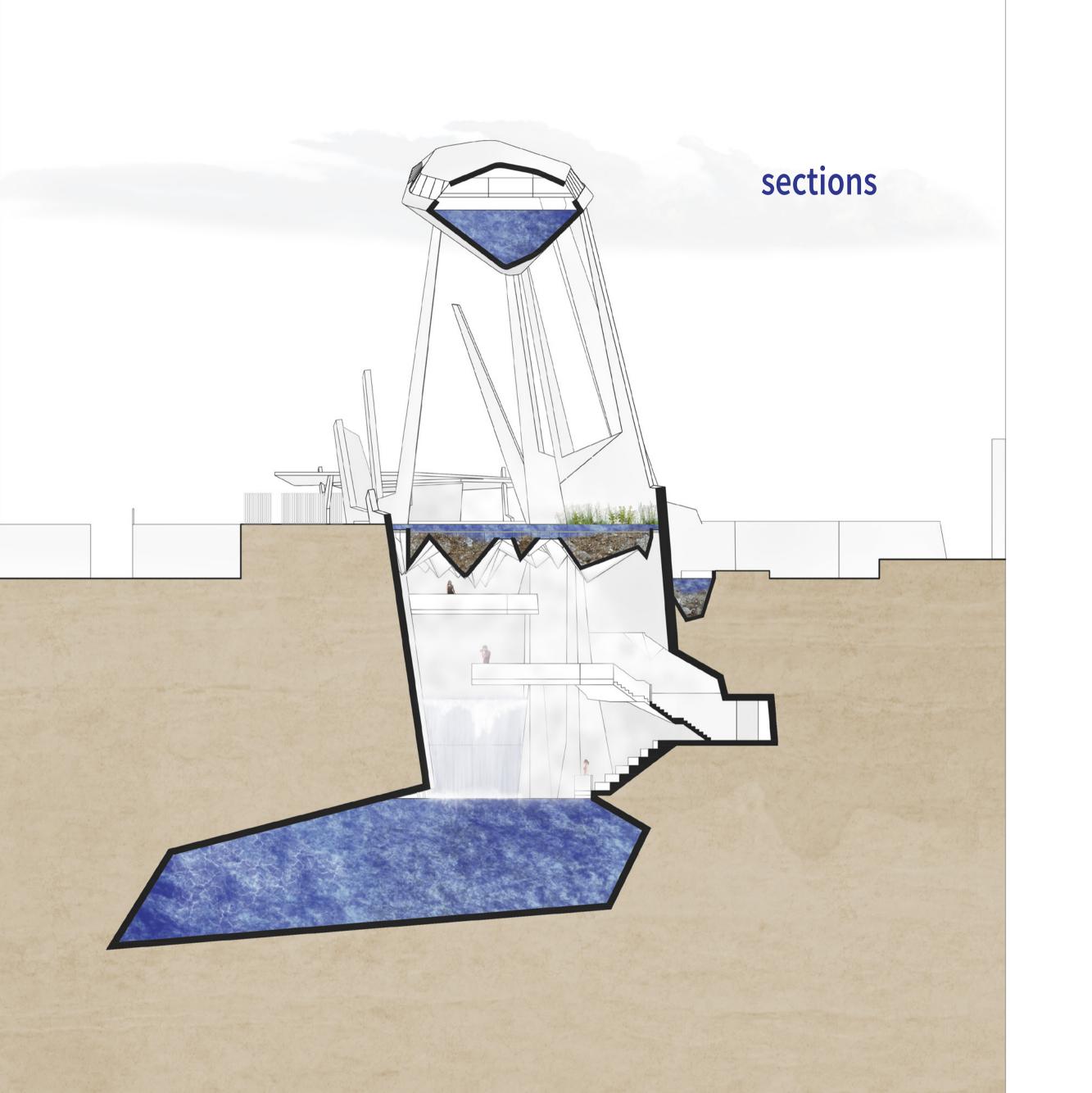
floor plan

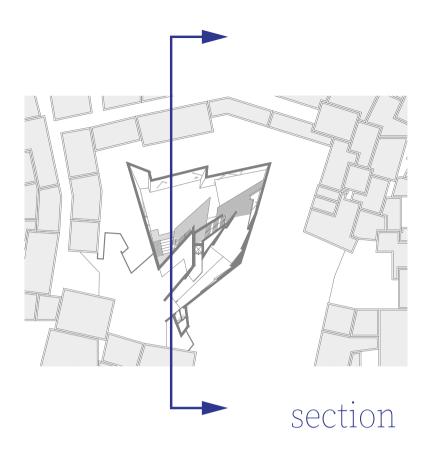




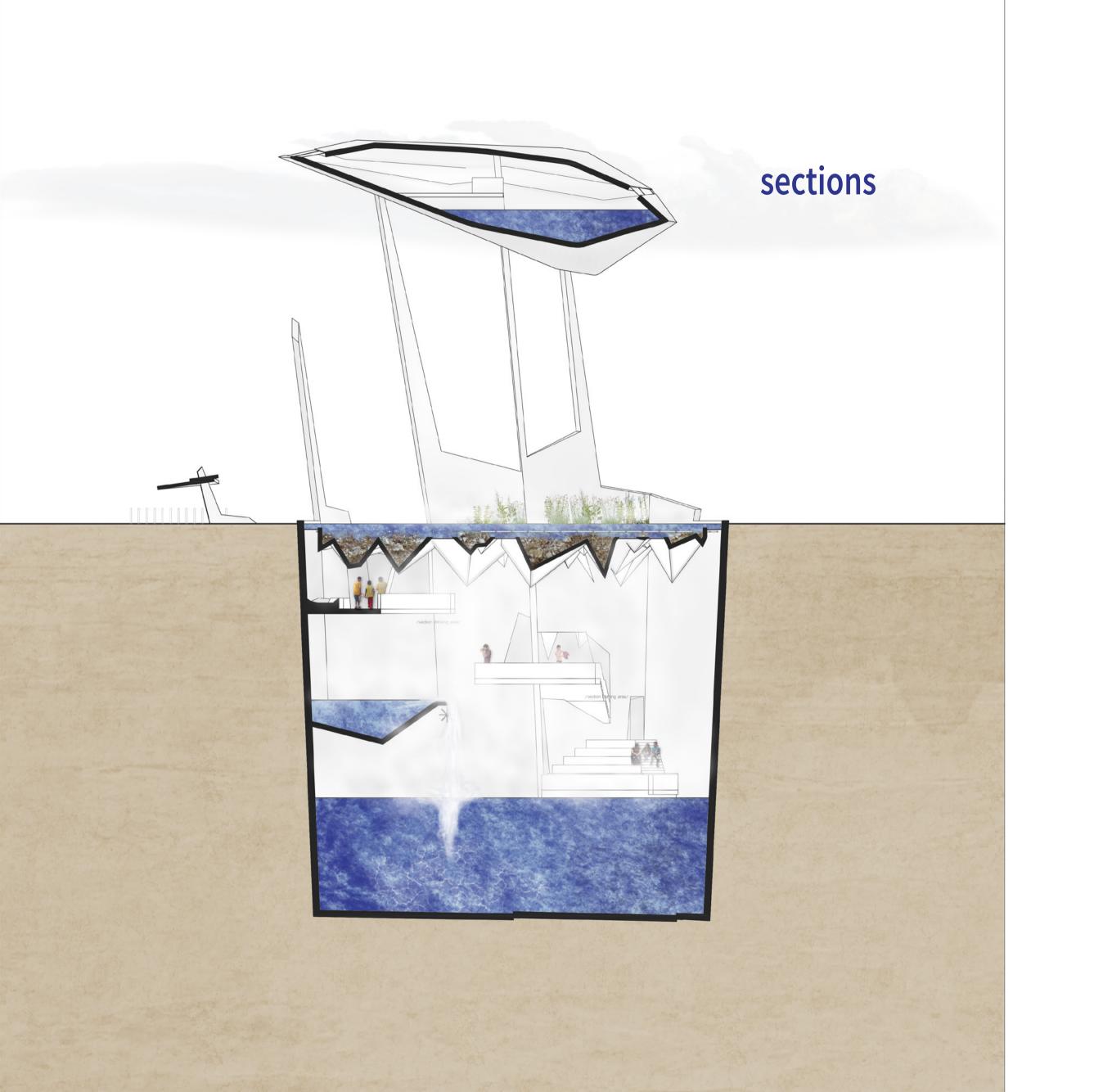


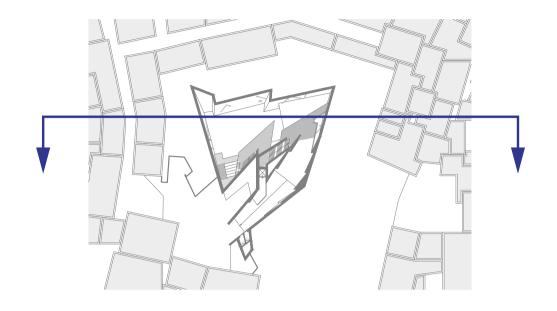
floor plan
water tower level





transversal a





section

longitudinal

design in city

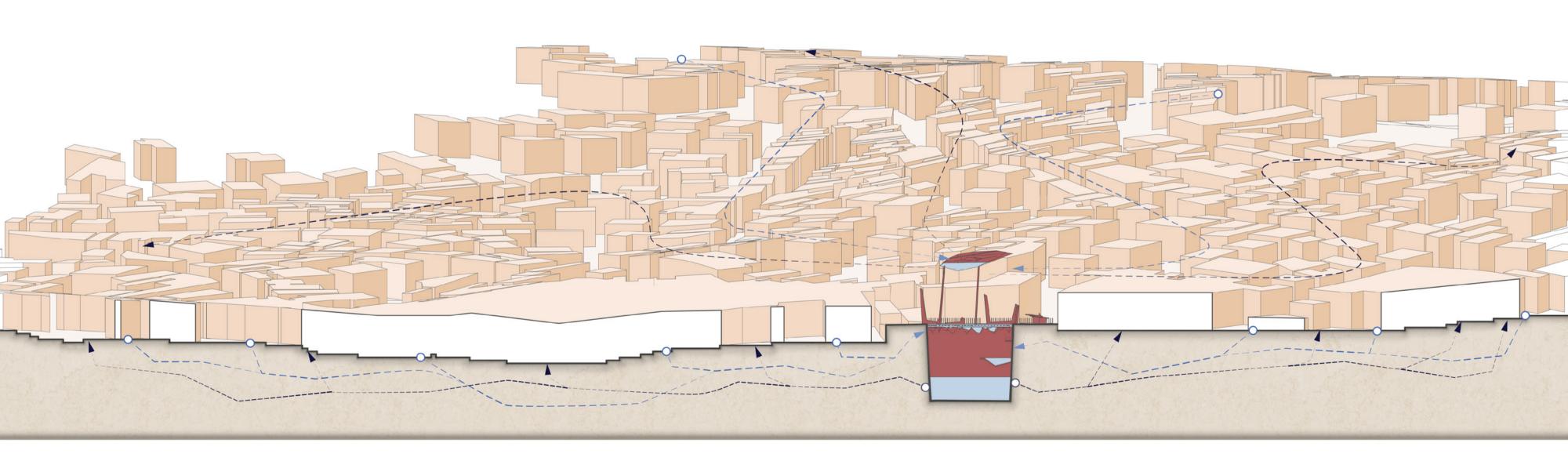


design in city

temple of water as part of the city

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water supply to inhabitants wastewater extraction from city





relevancy of water and architecture

problems of territorial water management

architecture in spaces of conflict and opposition

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graduation P5

Embrace diversity: (un)divided Hebron

COEXISTENCE THROUGH ARCHITECTURE OF WATER

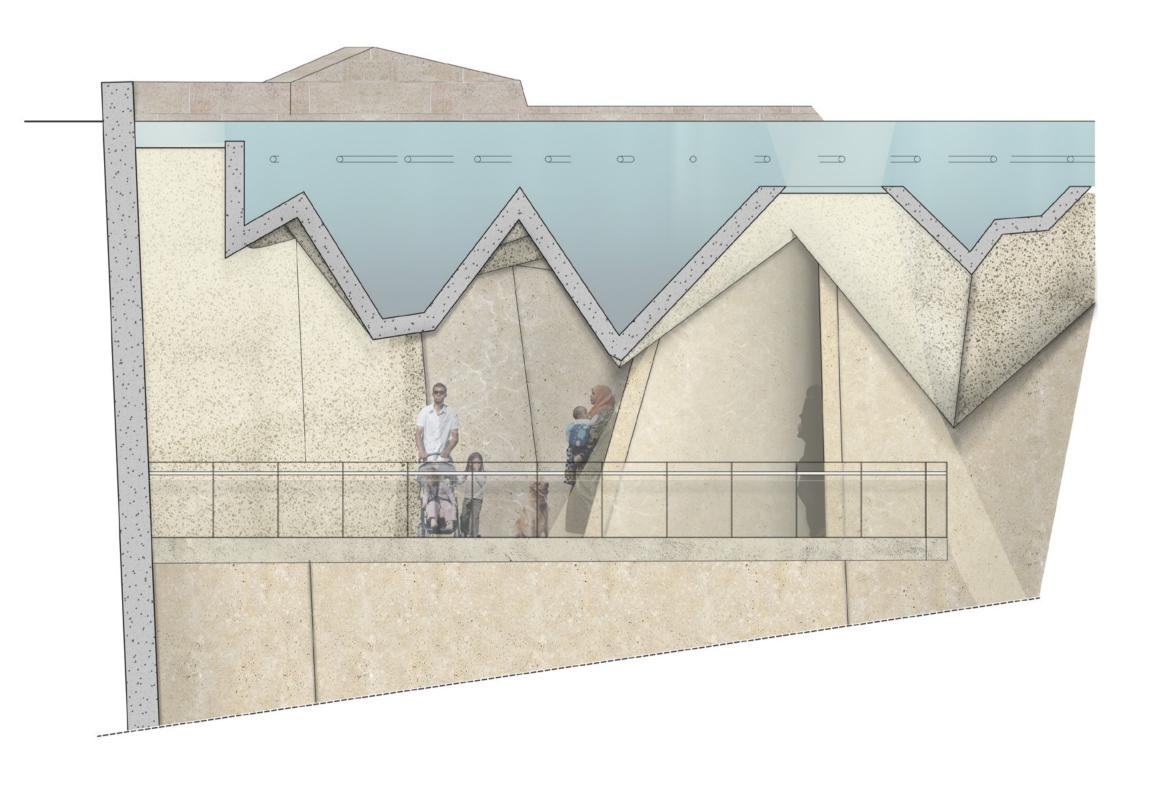
thank you

data

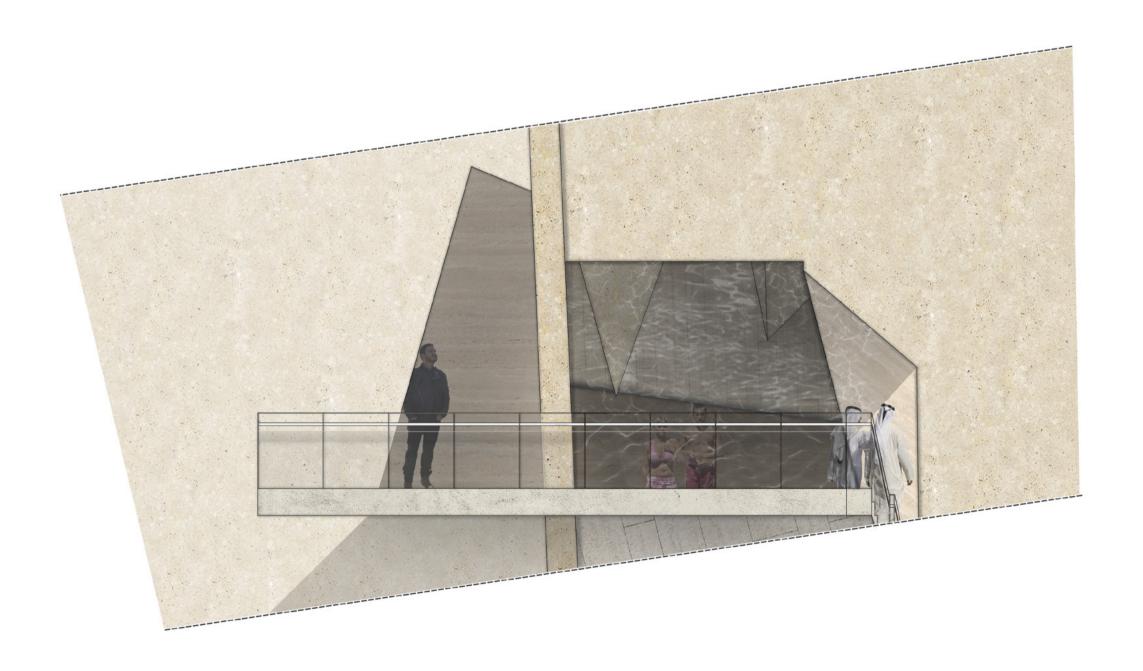
2015 hebron numbers regarding water

	daily:	
0,4 Mm3	water needs	34,2 Mm3
16,2 Mm3	water deficit	17,4 Mm3
,	water supply	26,1 Mm3
	water loss	9,3 Mm3
620,5 mm	water consumed	16,8 Mm3
55 days	needs based on WHO	
1951,6 mm	standard of:	150 l/capita/day
,	consumption:	73,7 l/capita/day
	l e e e e e e e e e e e e e e e e e e e	of WHO standards: 49%
4		
78		
5		
88		
	620,5 mm (700-900mm) 55 days 1951,6 mm	0,4 Mm3 16,2 Mm3 water needs water deficit water supply water loss water consumed (700-900mm) 55 days 1951,6 mm needs based on WHO standard of: consumption:

materialisation



materialisation



materialisation

