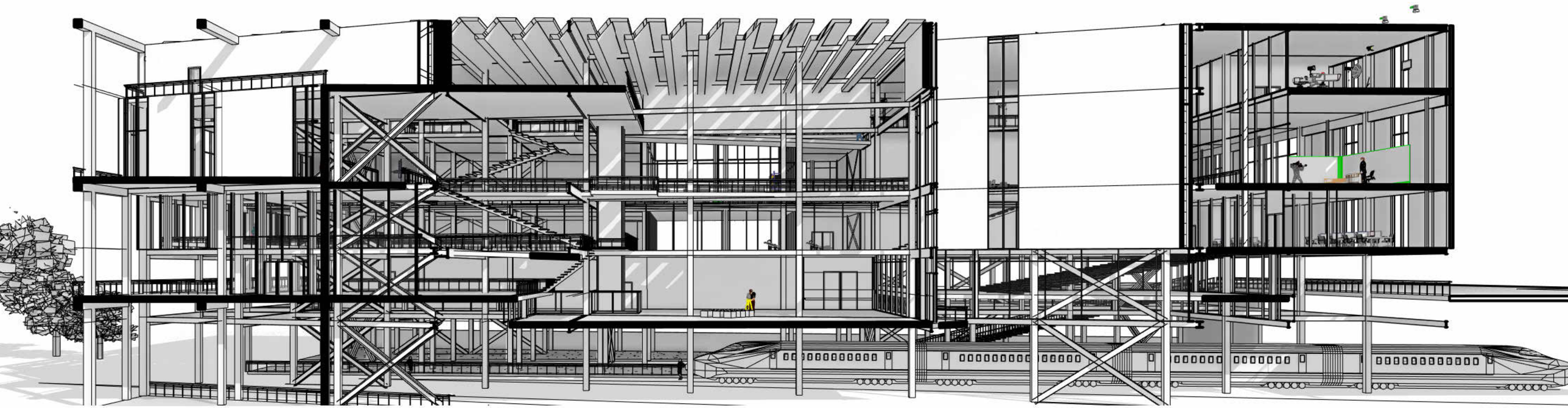


P5 | Final Presentation

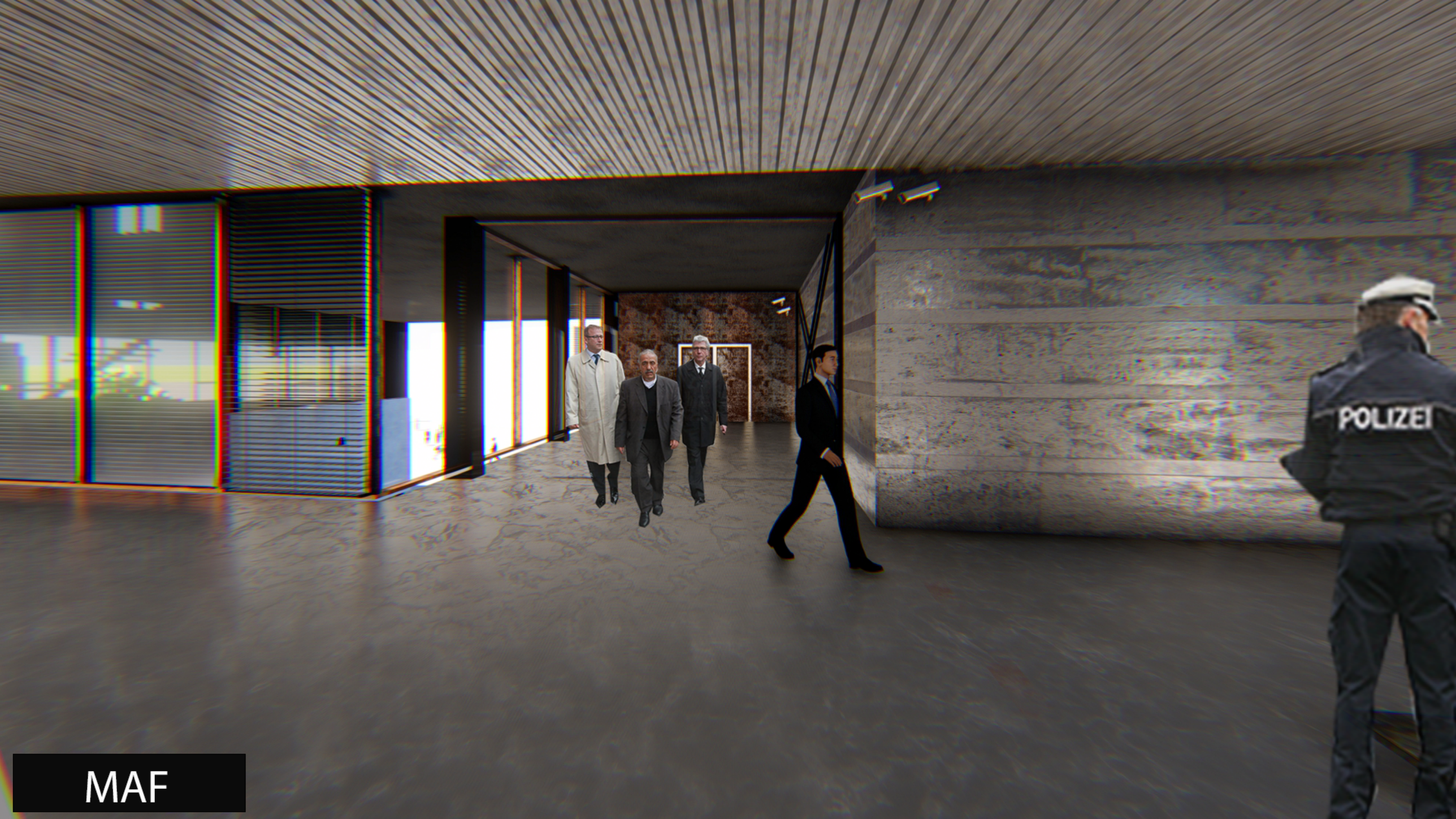
AR3AP100 | MSc3 | Public Building Graduation Studio 2022-2023

Public Condenser | New Urban Lounge & Commons

Title of the Project

MAF

A RPBEE Center in Friedrichshain, Berlin (Germany)


POLIZEI
MAF

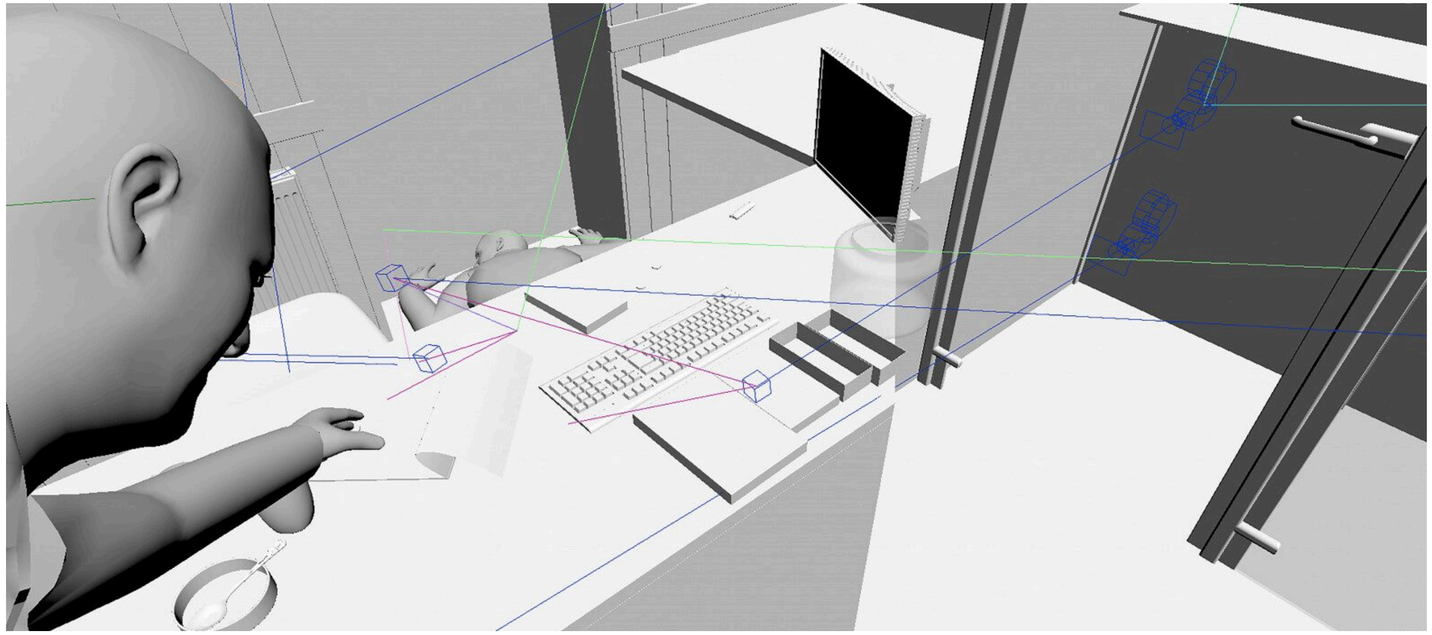
PROBLEM STATEMENT

*JUDICIAL CLOSED, BUT **NOT CLARIFIED** CASES*

HALIT YOZGAT **CASE**







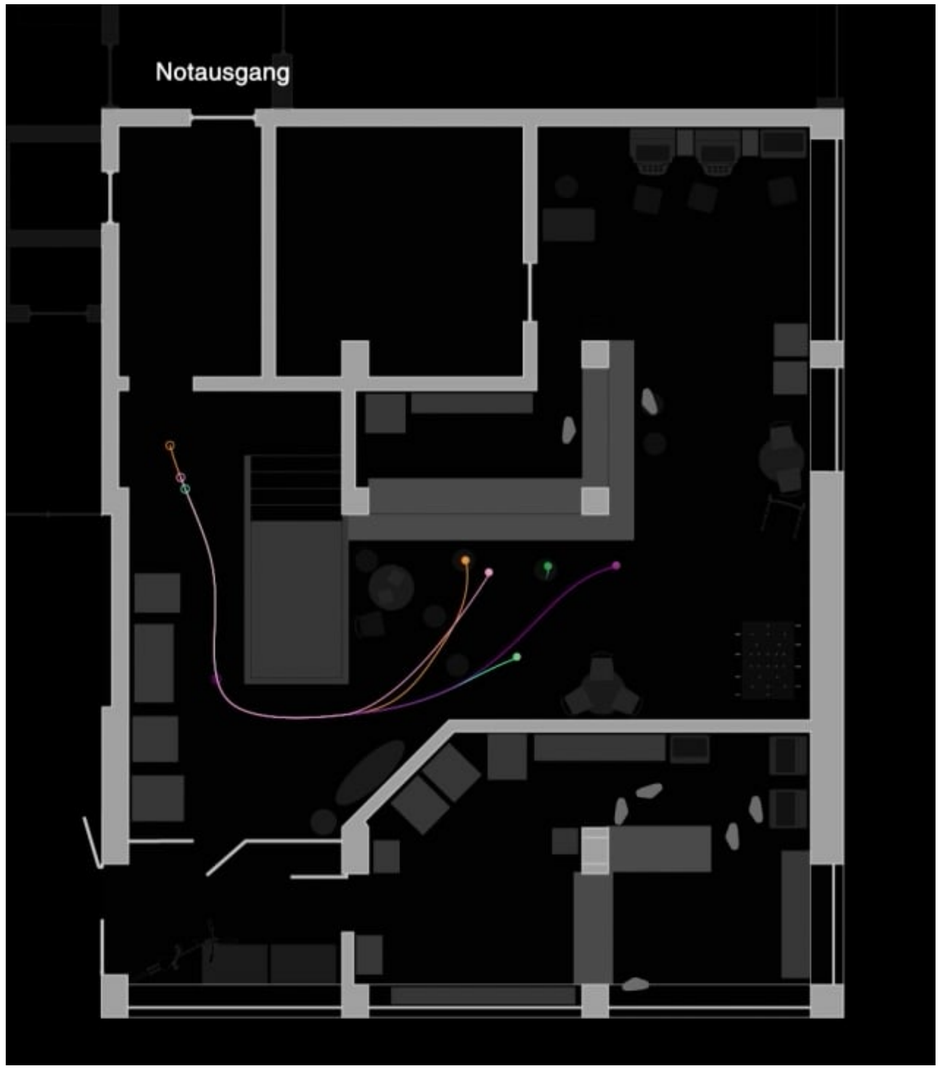
PROBLEM STATEMENT

*JUDICIAL CLOSED, BUT **NOT CLARIFIED** CASES*

HANAU **CASE**

2020







How does MAF Center connect to Commons?

connecting through ***counter- Hegemony Process***

APPROACH/METHOD

RESEARCH-BY-DESIGN

Theoretical Framework

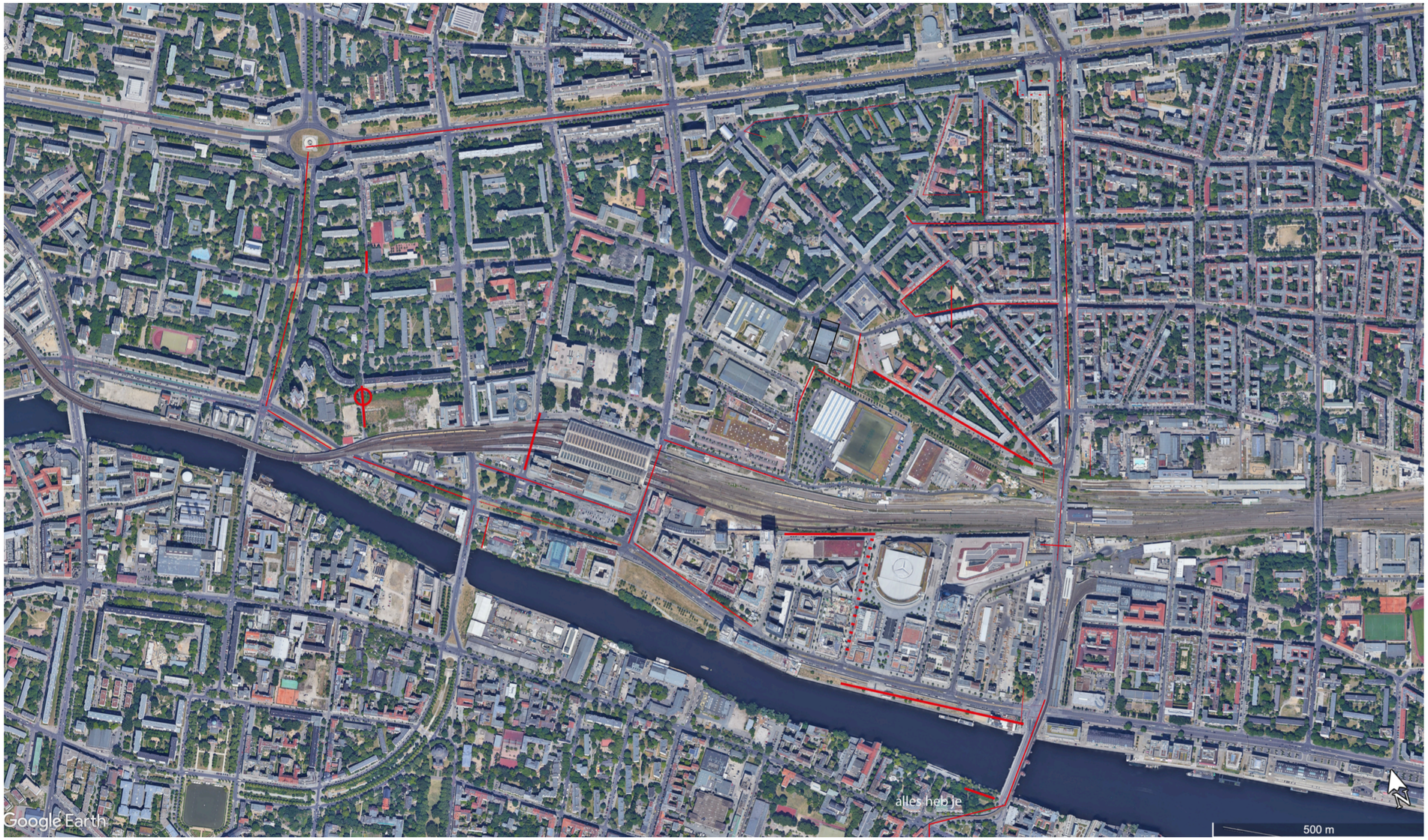
The strategies of social and spatial division can be accepted as one of the means of hegemonic power. Therefore, in this case, ***a counter hegemonic*** **process must oppose this differentiation and division.** So, this space doesn't have to be just a new meeting place, but *a space for oppositional practices, for multiple communities of resistance* (Soja, 1996). Soja calls this possibility

'**Thirdspace**'

RESEARCH - BY - DESIGN

SITE INVESTIGATION

qualitative (observational) and quantitative (experimental) research

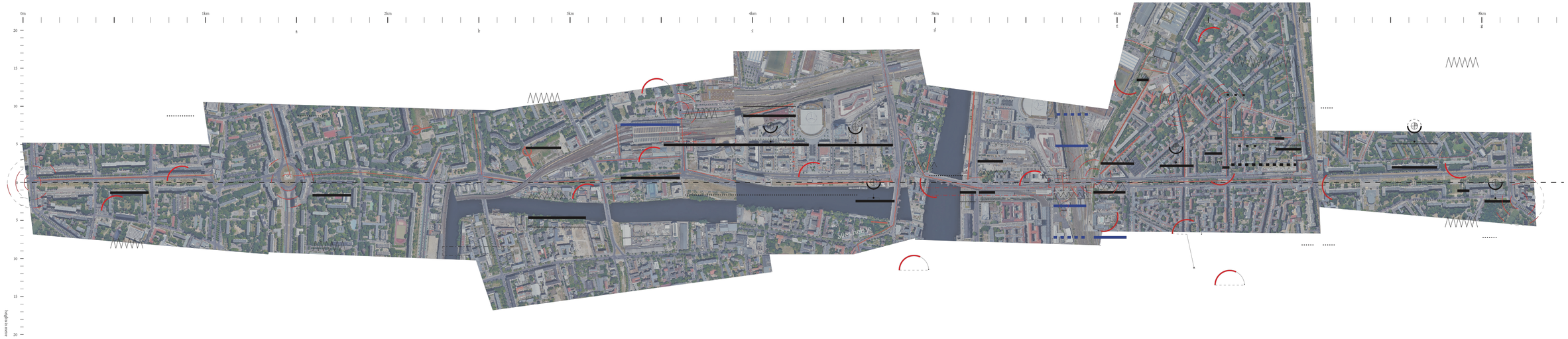


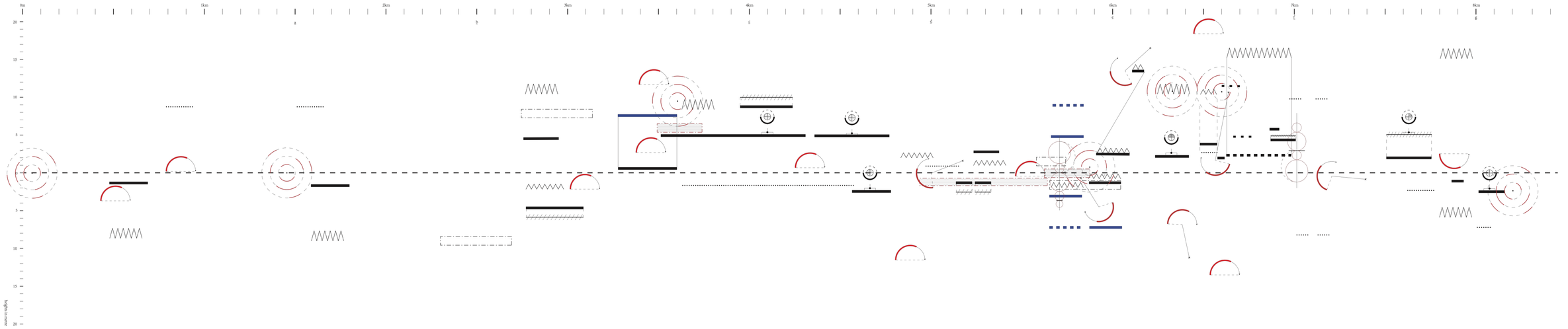
Unfolding Borderline

Notation system

1. Collecting opposites
2. Collecting peripheral or marginal identities

NOTATION SYSTEM THIRDSPACE





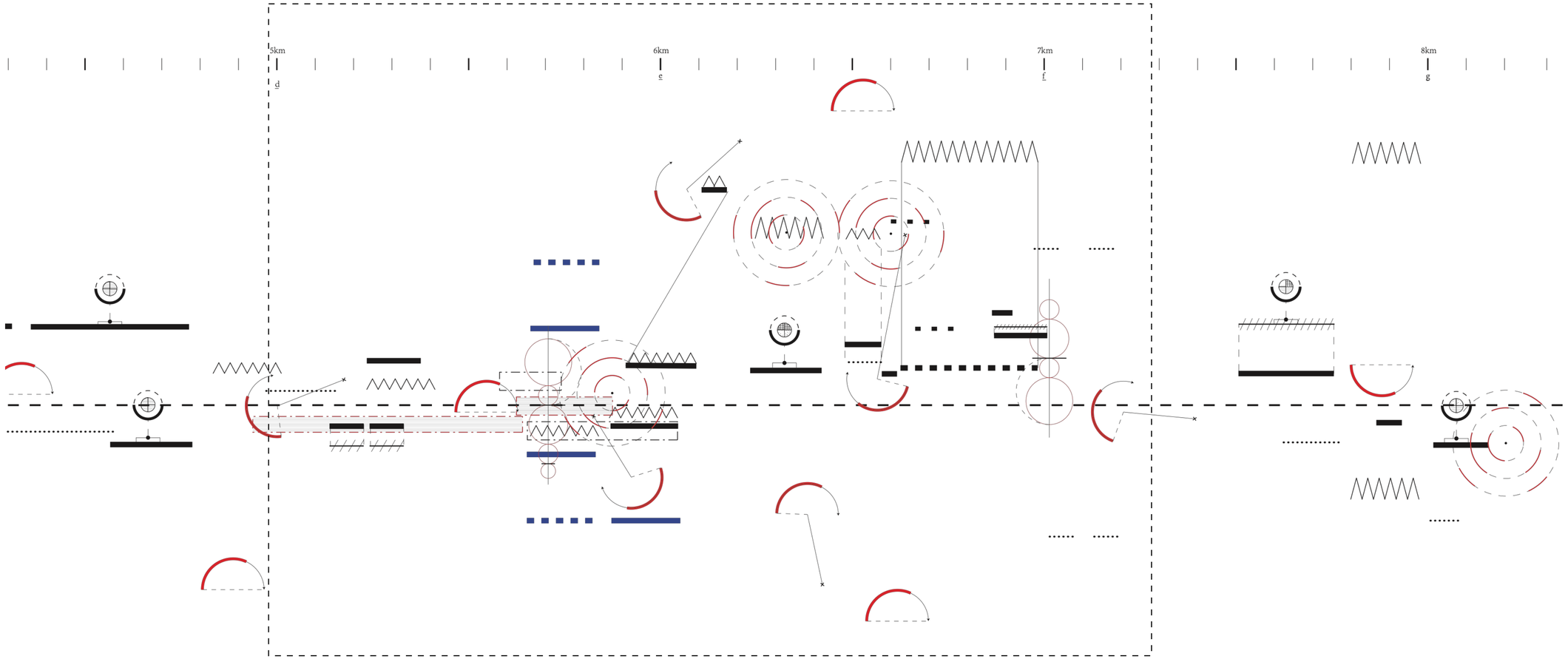
Collecting **opposites**

Collecting **peripheral or marginal identities**





NOTATION SYSTEM **THIRDSPACE**



Where they **‘All’** come together

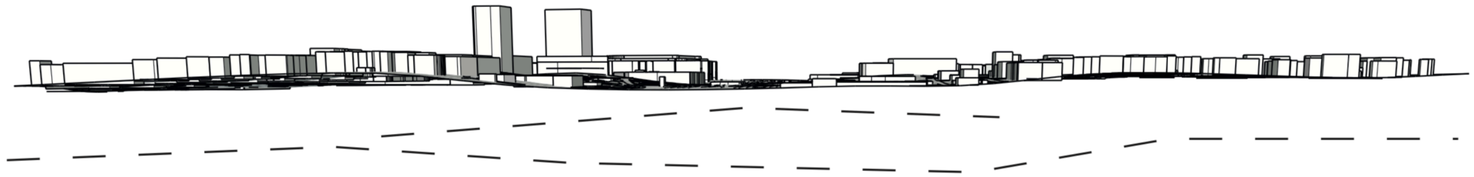
Opposites + Marginal & Central identities

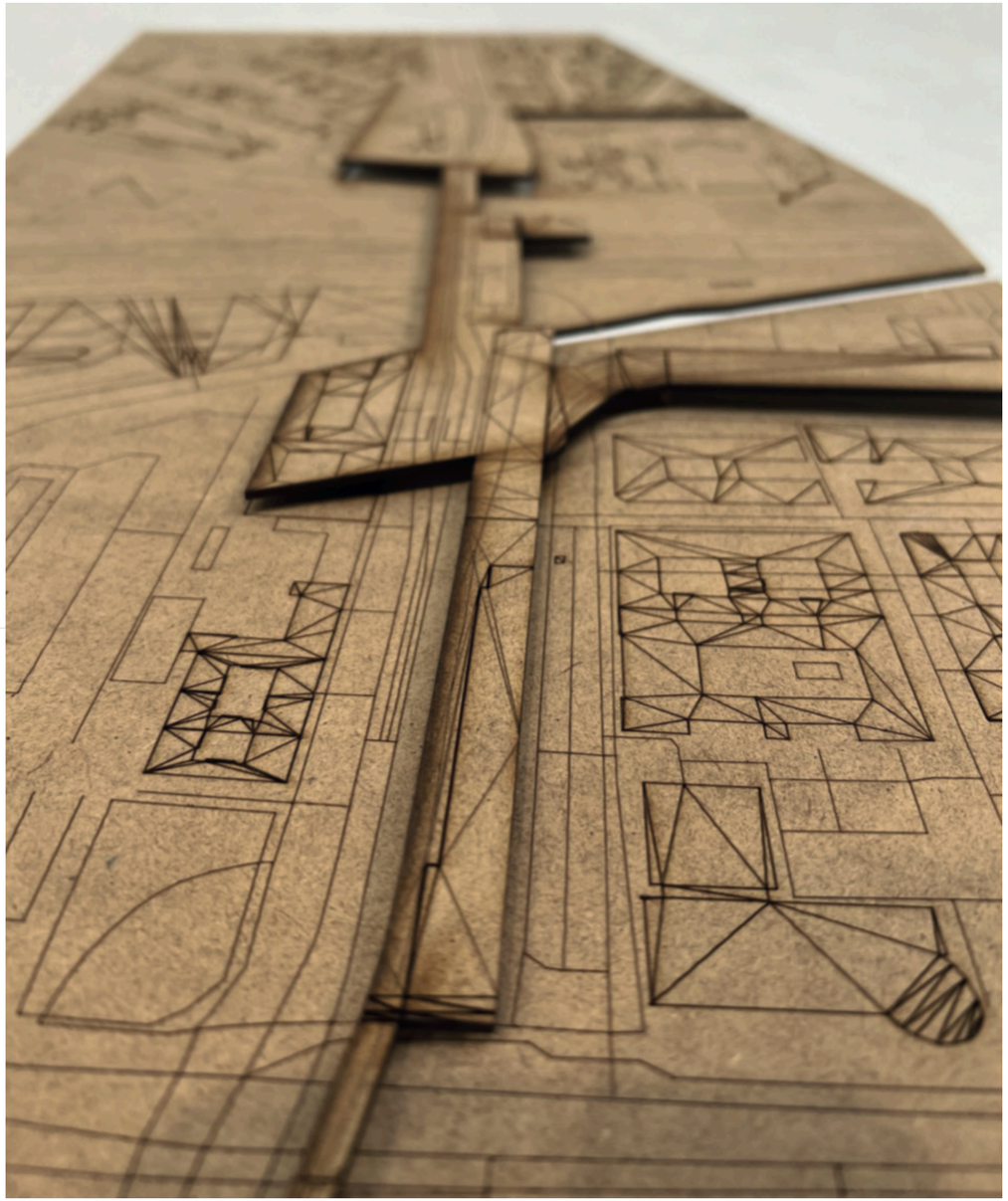
CHOICE OF SITE

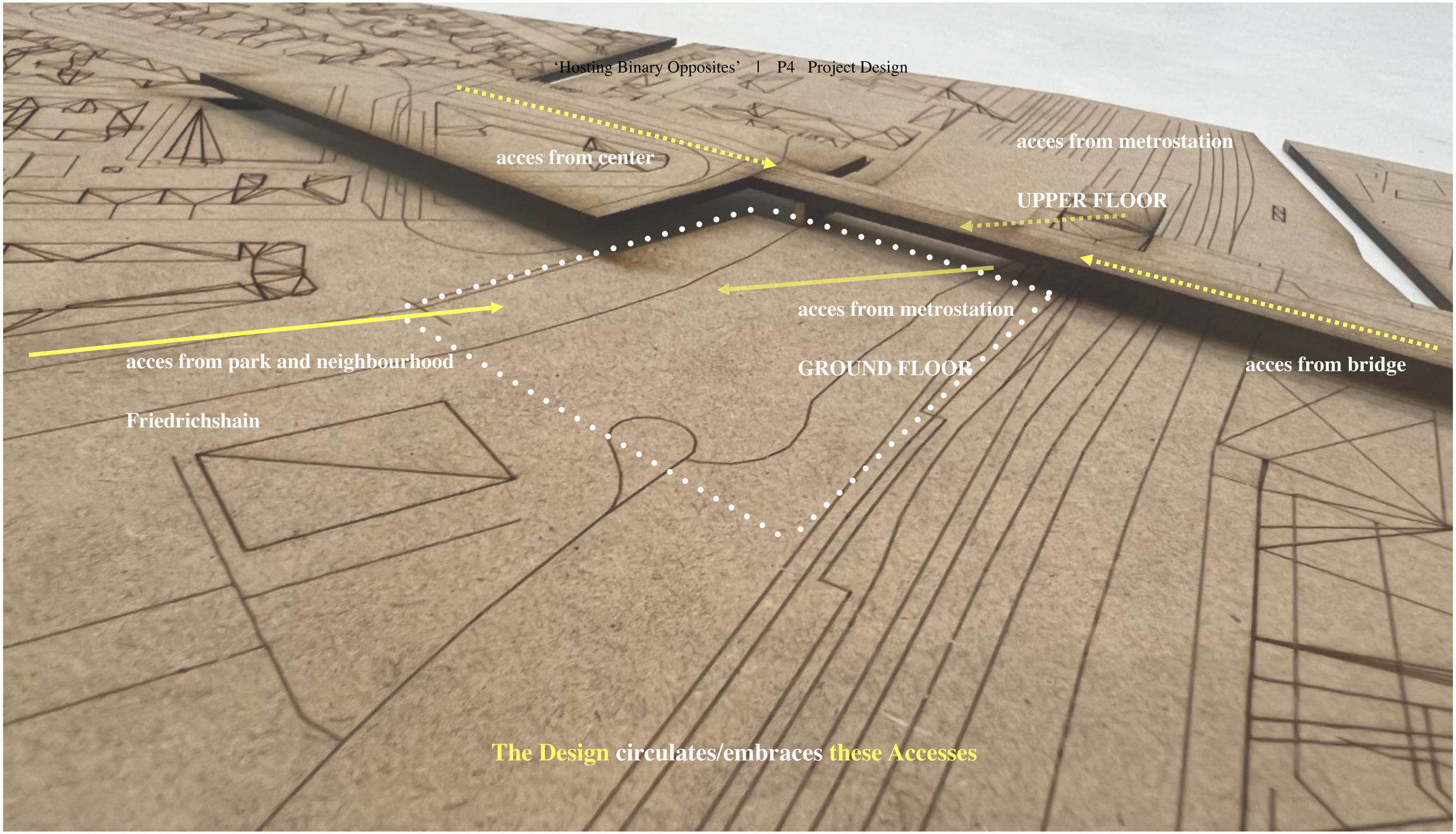
Warschauwerstrasse, Berlin



SITE CONDITION







The Design circulates/embraces these Accesses

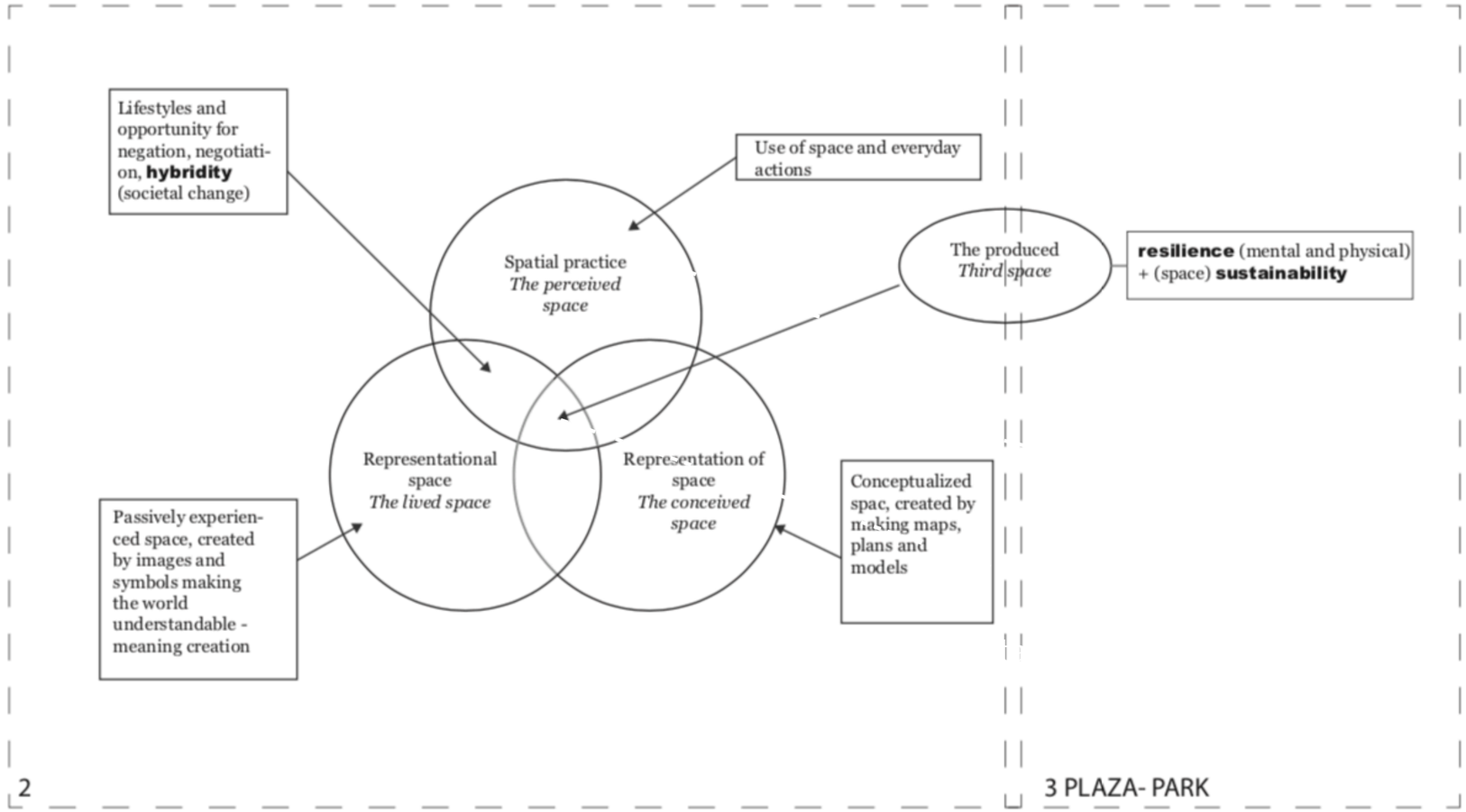
RESEARCH-BY- DESIGN

BUILDING PROGRAM

casestudy Babbha - Hybridity

rebel figure
negation --> negotiation --> hybridity

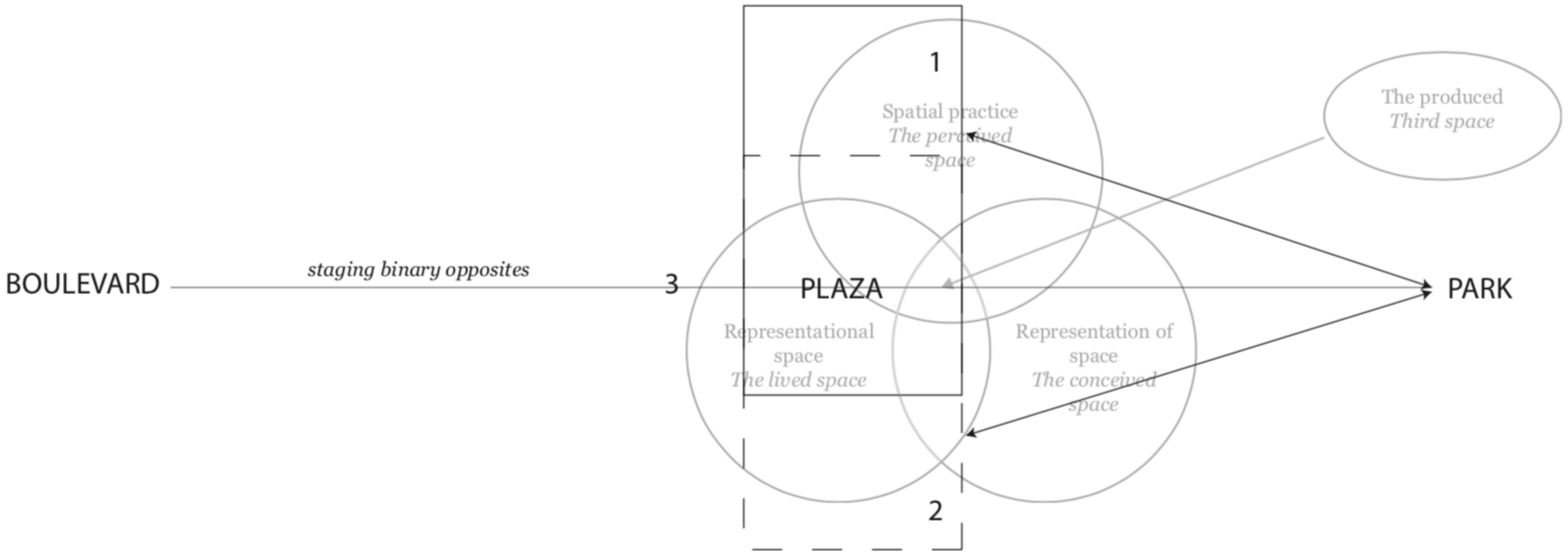
casestudy Soja - Resilience (mental and physical) + (space) sustainability



RESEARCH-BY- DESIGN

THIRDSPACE (Urban Scale)

THIRDSPACE (Building Program)



How does MAF Center connect to Commons?





Lifestyles and opportunity for negation, negotiation, **hybridity** (societal change)

MINORITIES/CASES

Use of space and everyday actions





EXCHANGE

Spatial practice
The perceived space

The produced
Third space

resilience (mental and physical) + (space) **sustainability**

FORENSIC

MEDIA







BROADCASTING

Representational space
The lived space

Representation of space
The conceived space



Passively experienced space, created by images and symbols making the world understandable - meaning creation

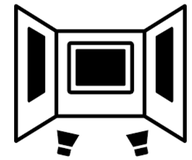
Conceptualized spac, created by making maps, plans and models



FORENSIC ARCHITECTURE

ART





TECHNOLOGY

MEDIA TECHNOLOGY
ART TECHNOLOGY

EXHIBITION

How does RPBEE Center connect to Commons?

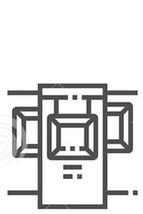
FORENSIC ARCHITECTURE ⟷ **FORENSIC**

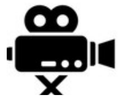




instruments and
proces to pick up a case

MEDIA-ART ⟷ **MEDIA**

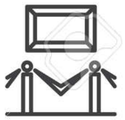




organization of functions and the use of instruments/tools

MEDIA-ART ⟷ **ART**





organization of functions and exhibition spaces

RESEARCH - PRODUCTION

BROADCASTING

EXHIBITION







exchange

The project consist in a multi- scale proposal:

Urban Program - Protest Route

Staging binary opposites - The protest route takes place from the bridge near the Berlin Wall via Warschauwerstrasse to the new building with a number of stopovers.

Building Program – MAF /RPBEE CENTER

A center of **Media, Art and Forensic** with **Research, Broadcasting, Production, Exchange and Exhibition** -

The building is an international research center that brings cases under scrutiny, but also addresses juridical and social problems. The building will accommodate the work of an interdisciplinary team, who will look at things from a new, unbiased perspective.

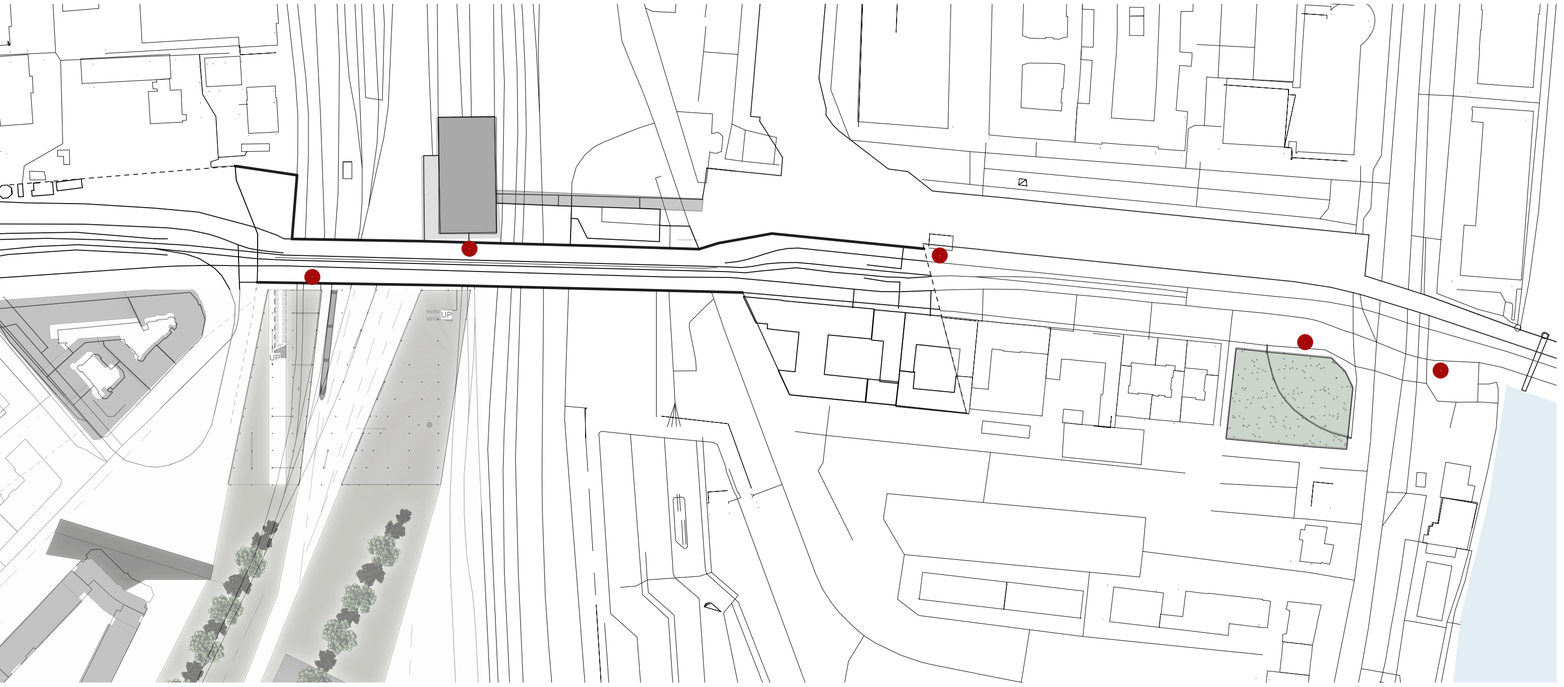
Research, production, exchange and exhibitions constitute the main programmatic activities of the building.

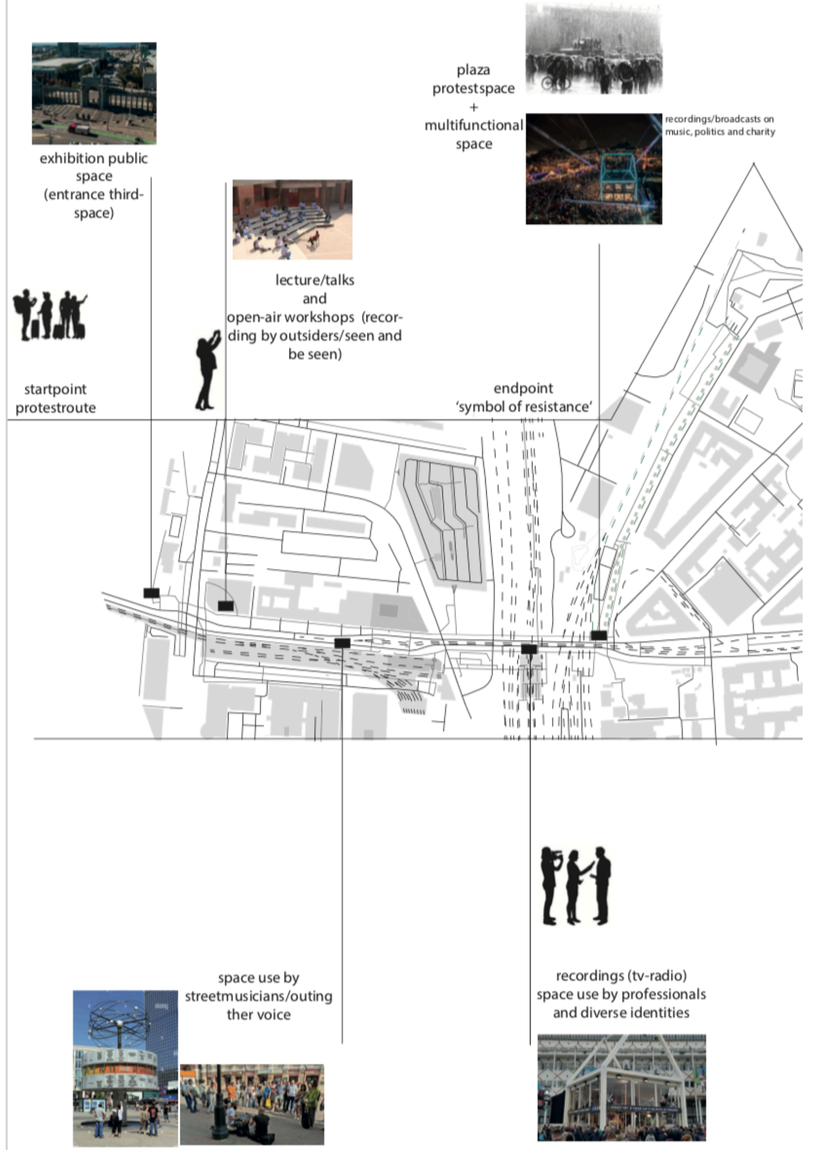
The *Interdisciplinair Team* consists of architects, theorists, artists, filmmakers, software developers, investigative journalists, archaeologists, lawyers and scientists; using state-of-the-art techniques and insights.

The project consist in a multi- scale proposal

Urban Program - Protest Route

Staging binary opposites - The protest route takes place from the bridge near the Berlin Wall via Warschauwerstrasse to the new building with a number of stopovers.





The project consist in a multi- scale proposal

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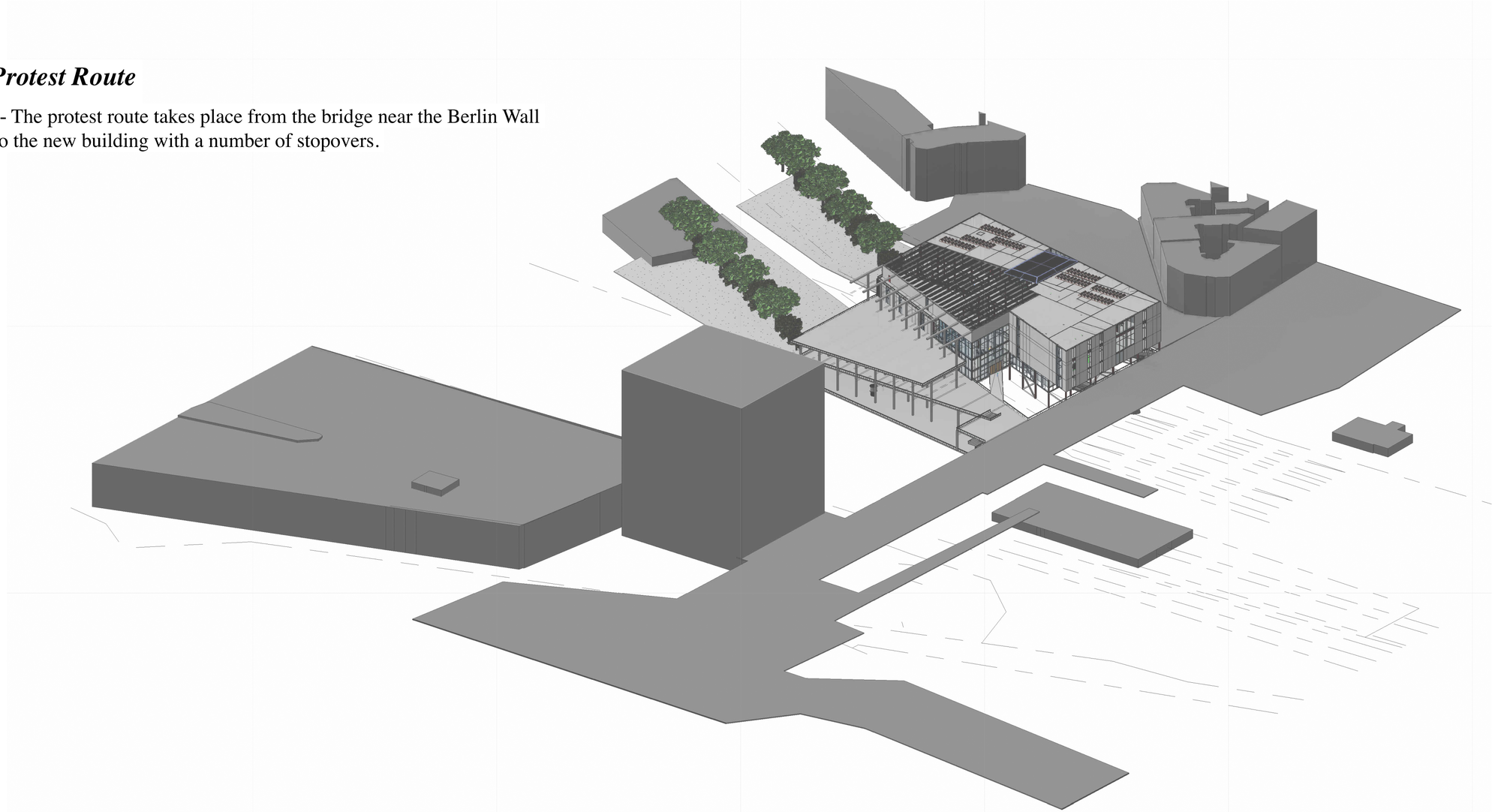

The project consist in a multi- scale proposal

Urban Program - Protest Route

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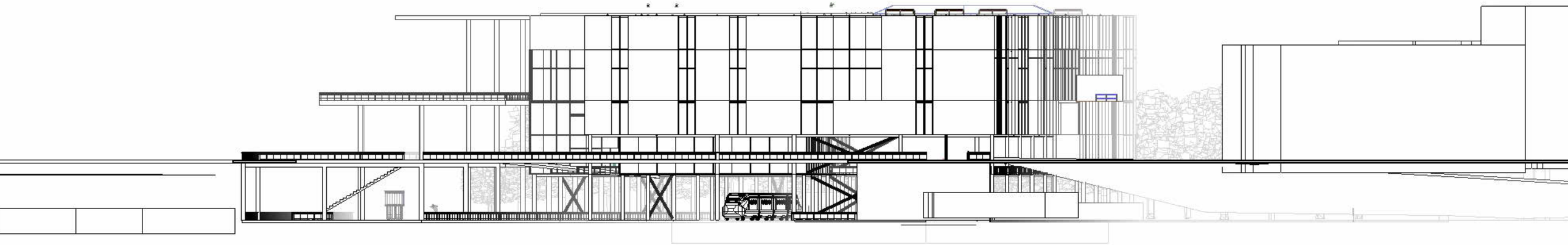
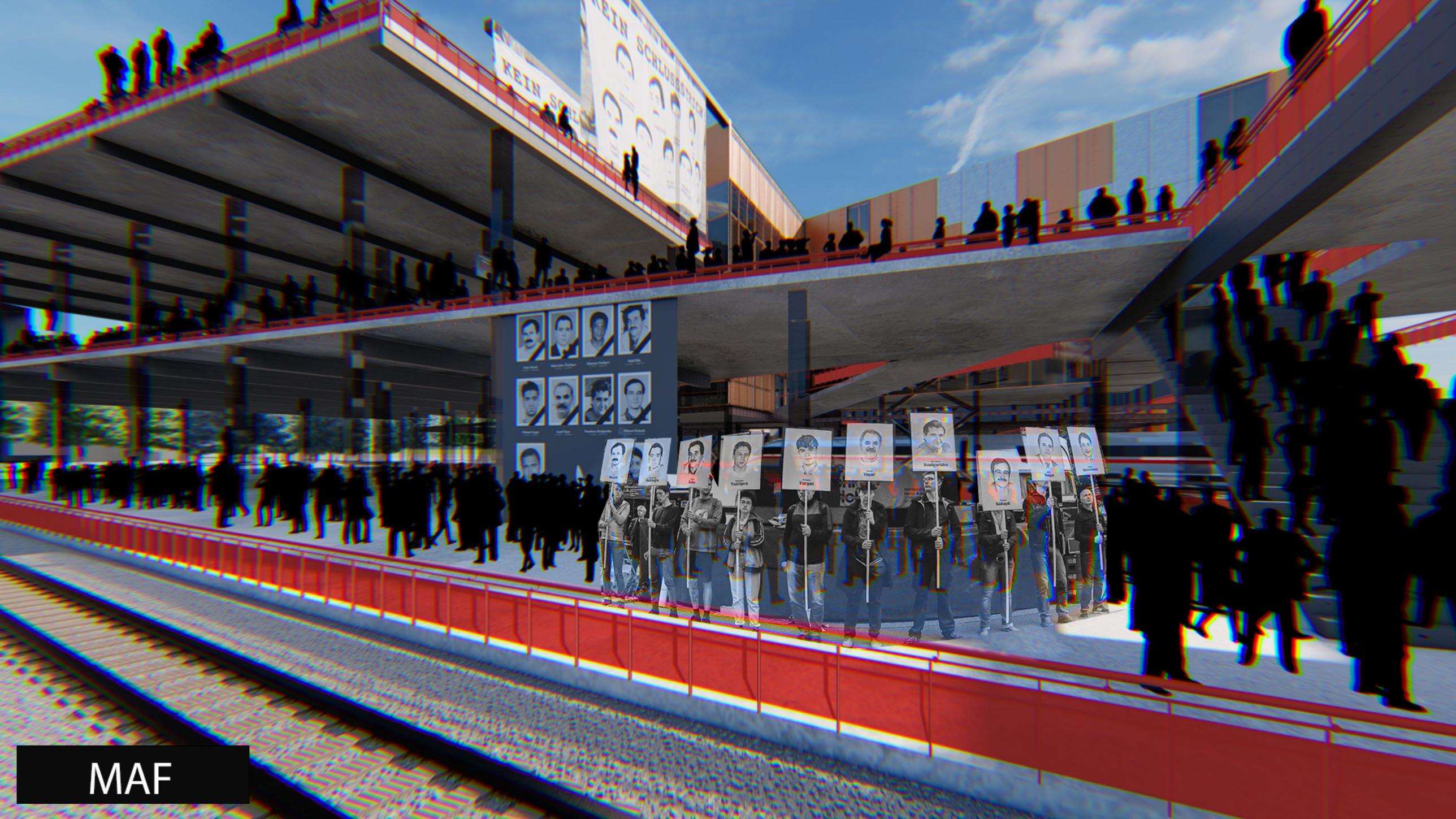
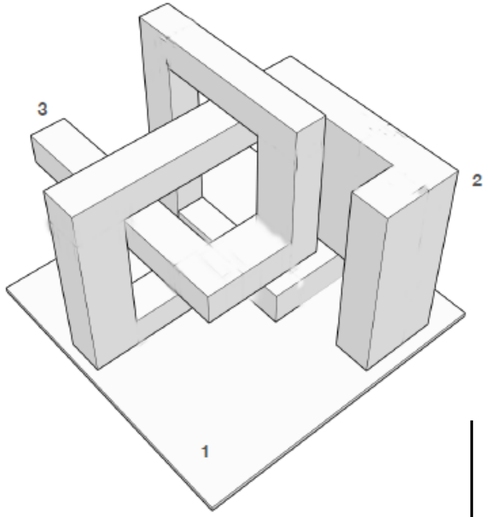


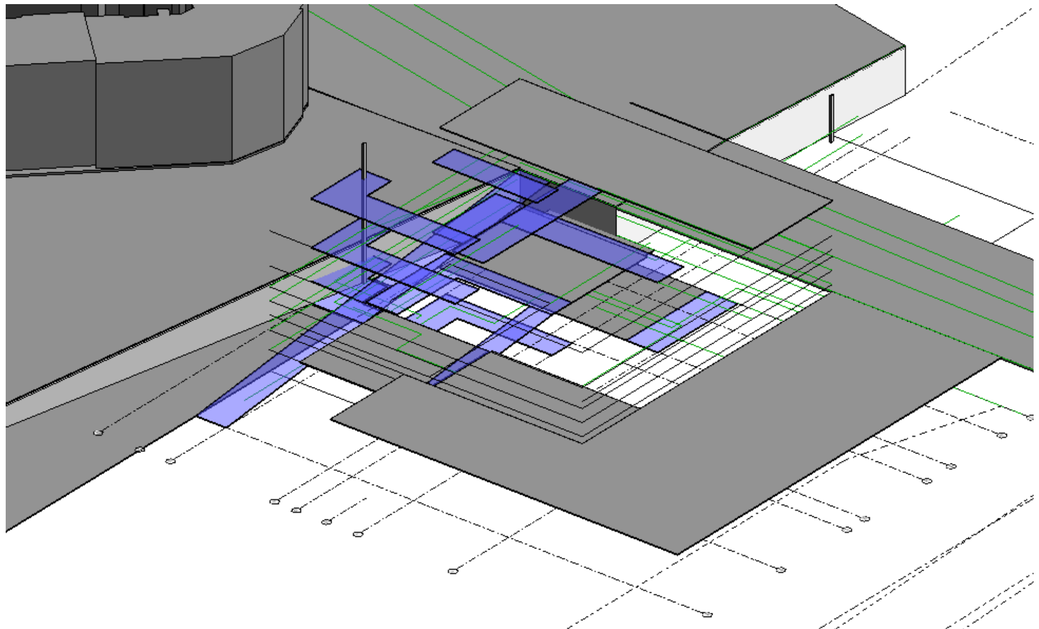

KEIN SCHLUSSSTRICH
MAF

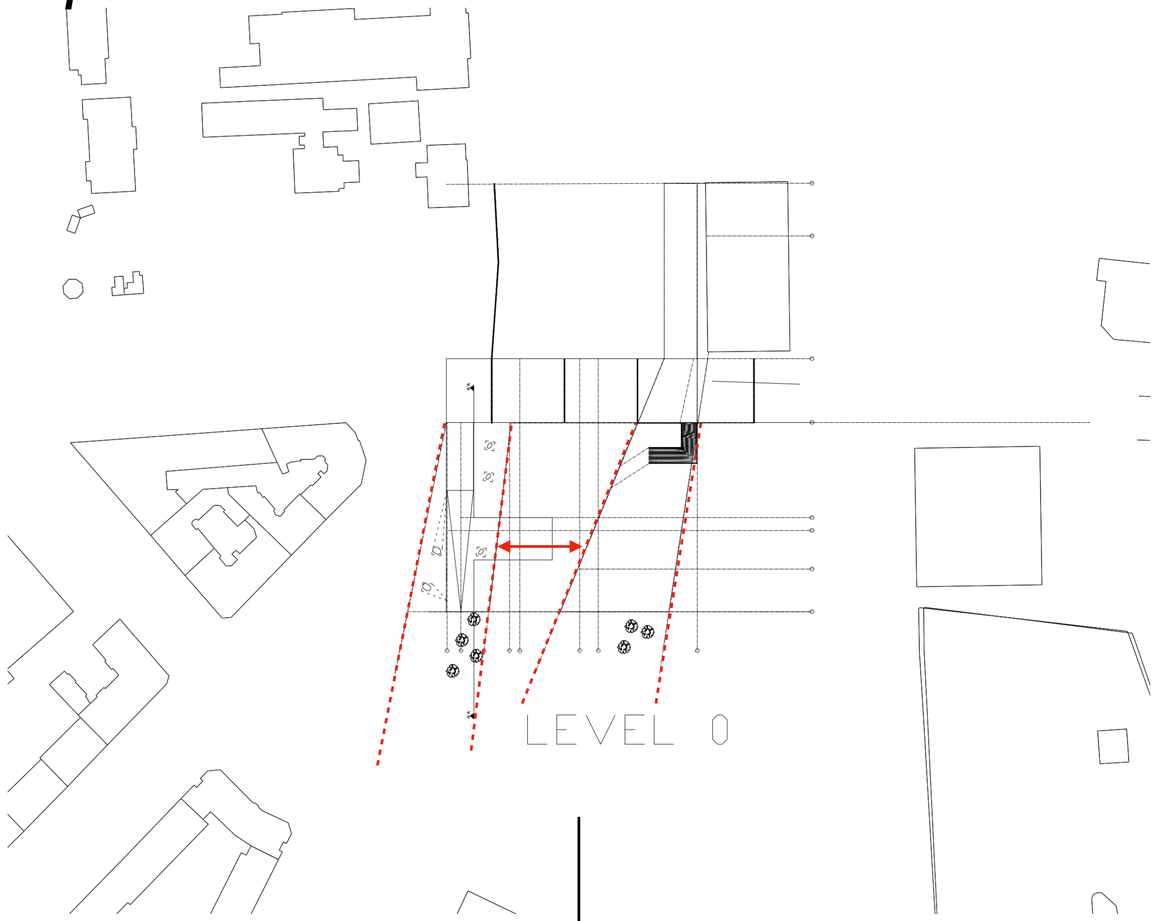
FROM PROGRAM TO DESIGN

Design Principles

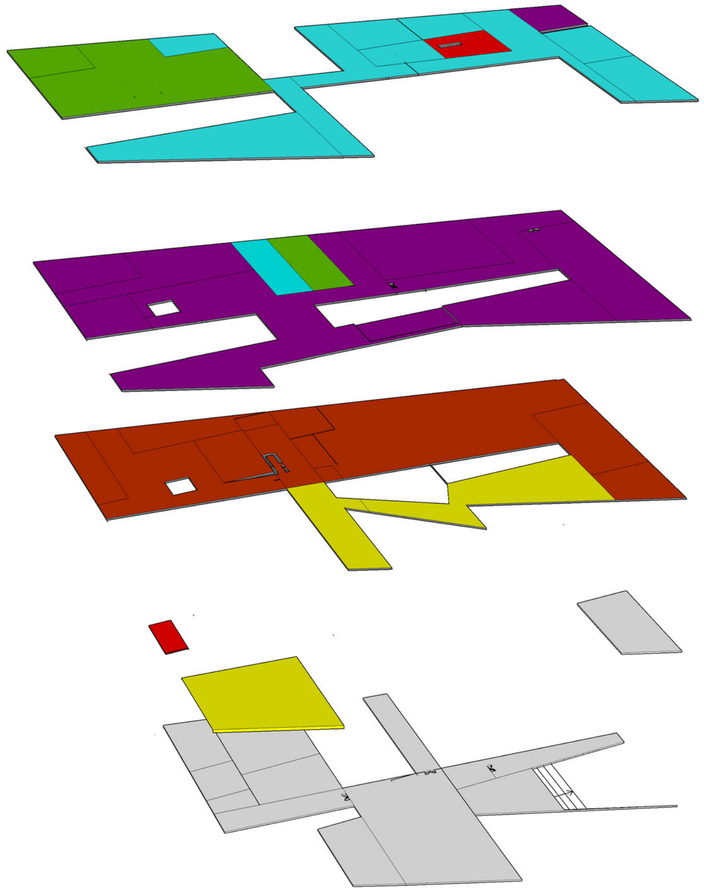


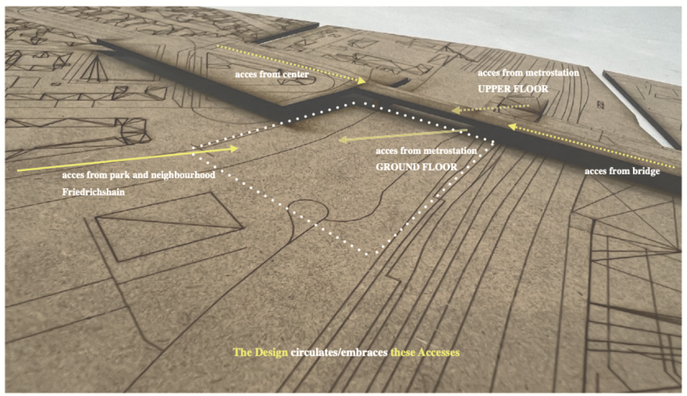
layering creates the possibility in overlap
of functions/crossing of identities





railway lines and natural slope, will not be removed. The
building will be lifted.





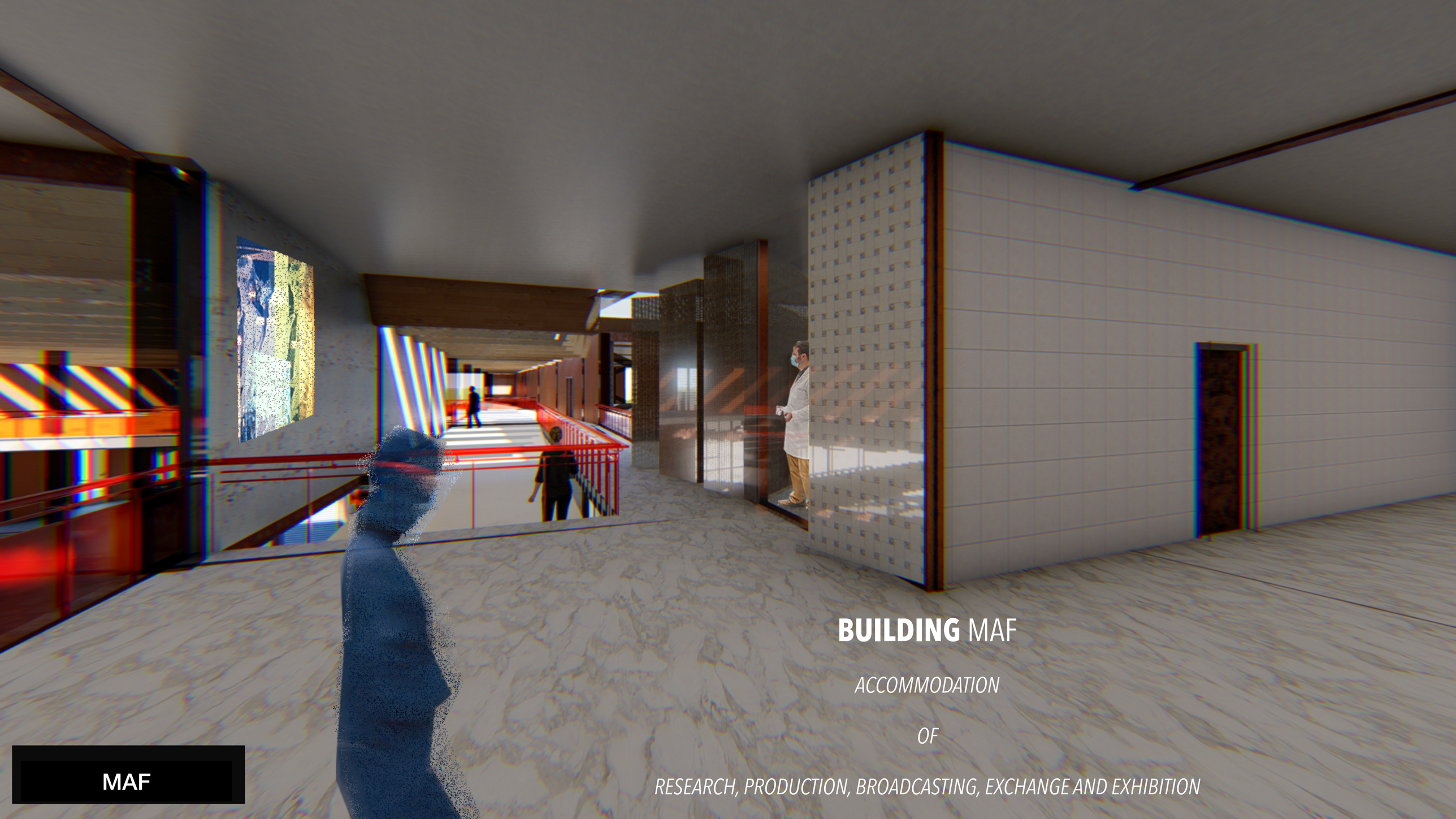
FROM PROGRAM TO DESIGN

Design Principles

the possibility in control of the transition from public to semi-public spaces: foyers

Providing users the possibility in circulation and accessibility

the possibility of different entrances for users



BUILDING MAF

ACCOMMODATION

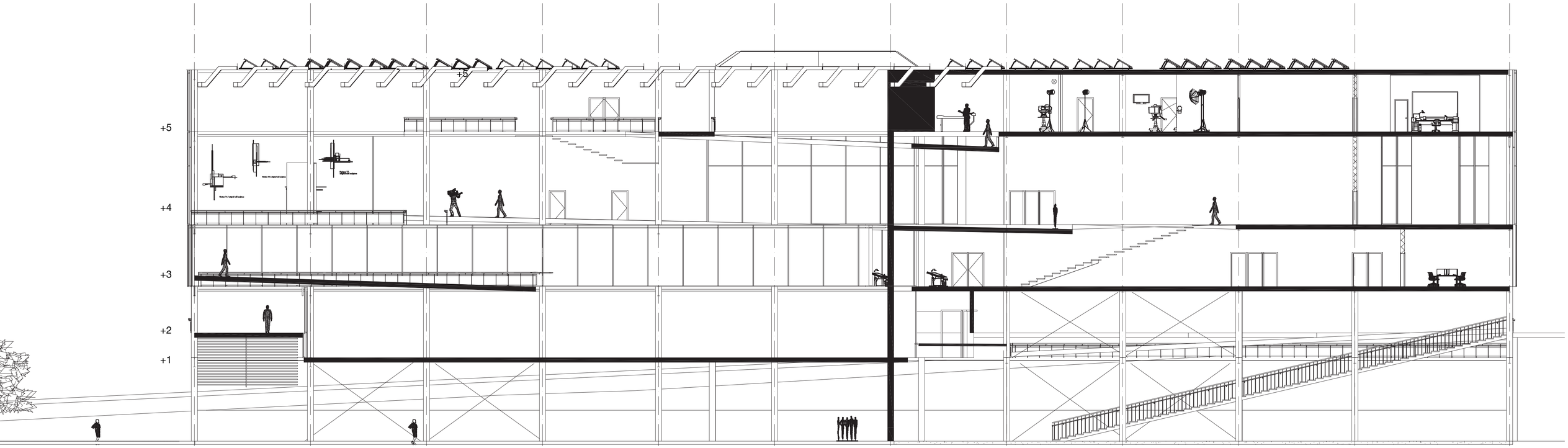
OF

RESEARCH, PRODUCTION, BROADCASTING, EXCHANGE AND EXHIBITION

MAF

PROGRAM

BUILDING MAF



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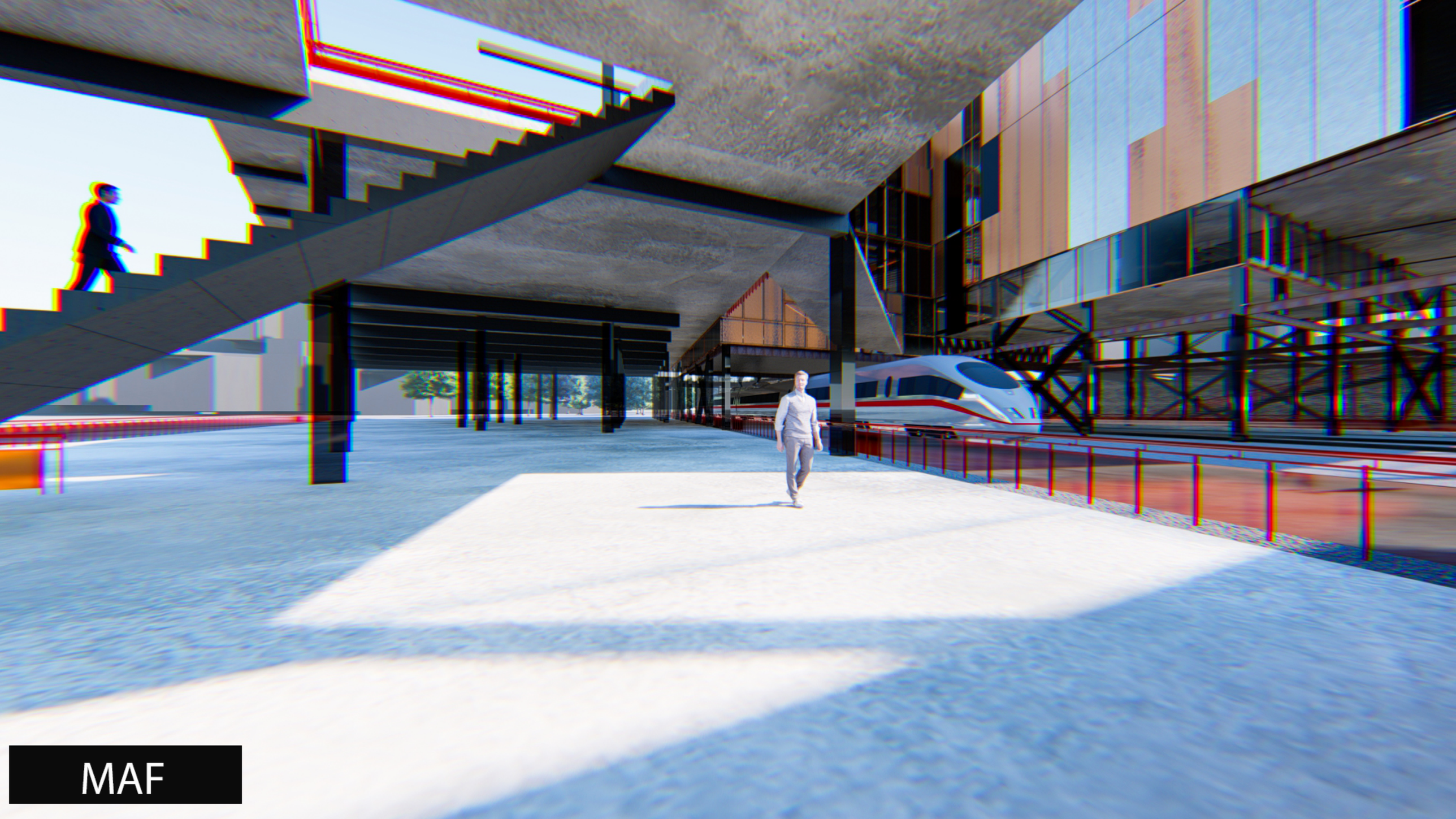
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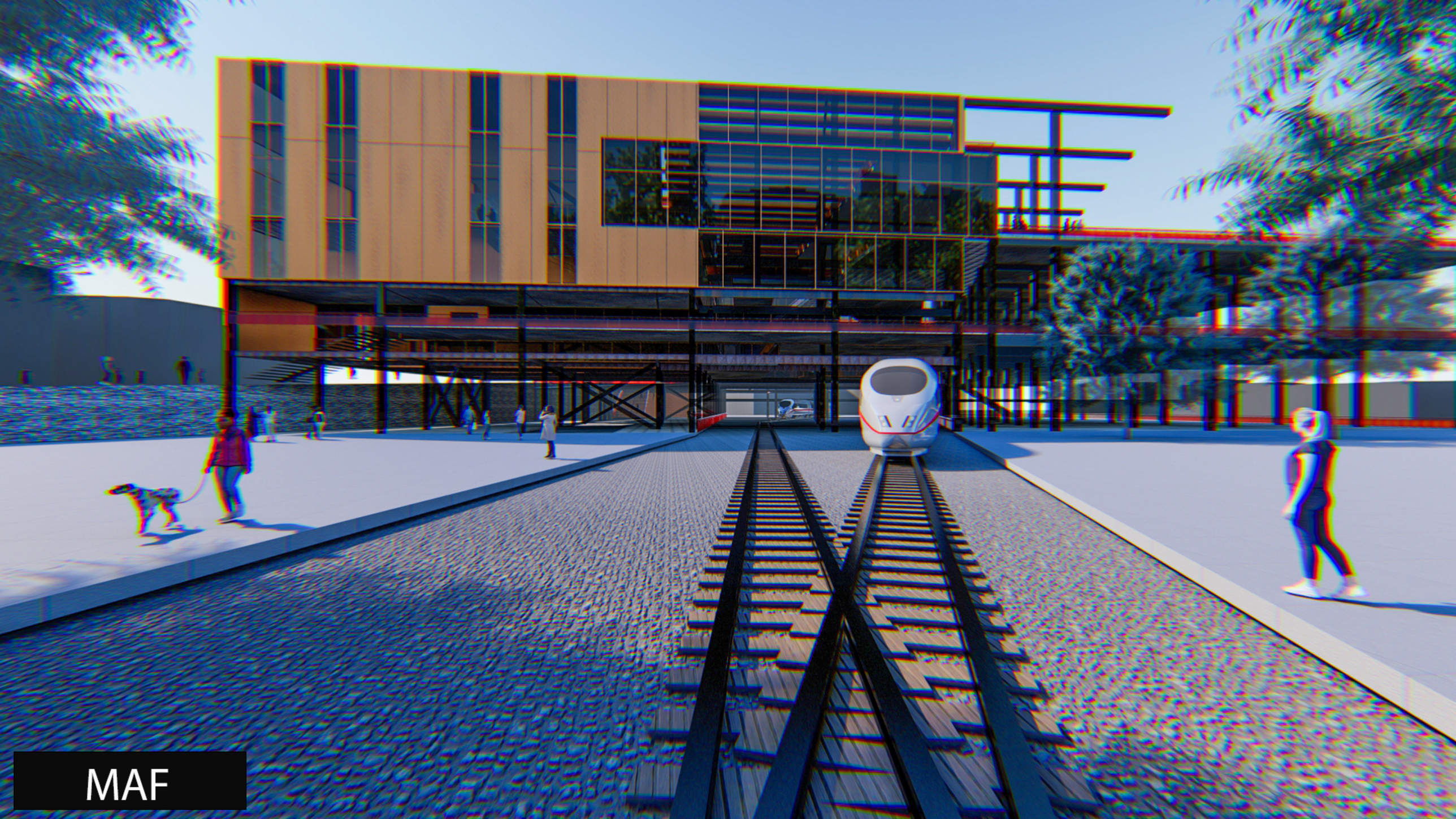
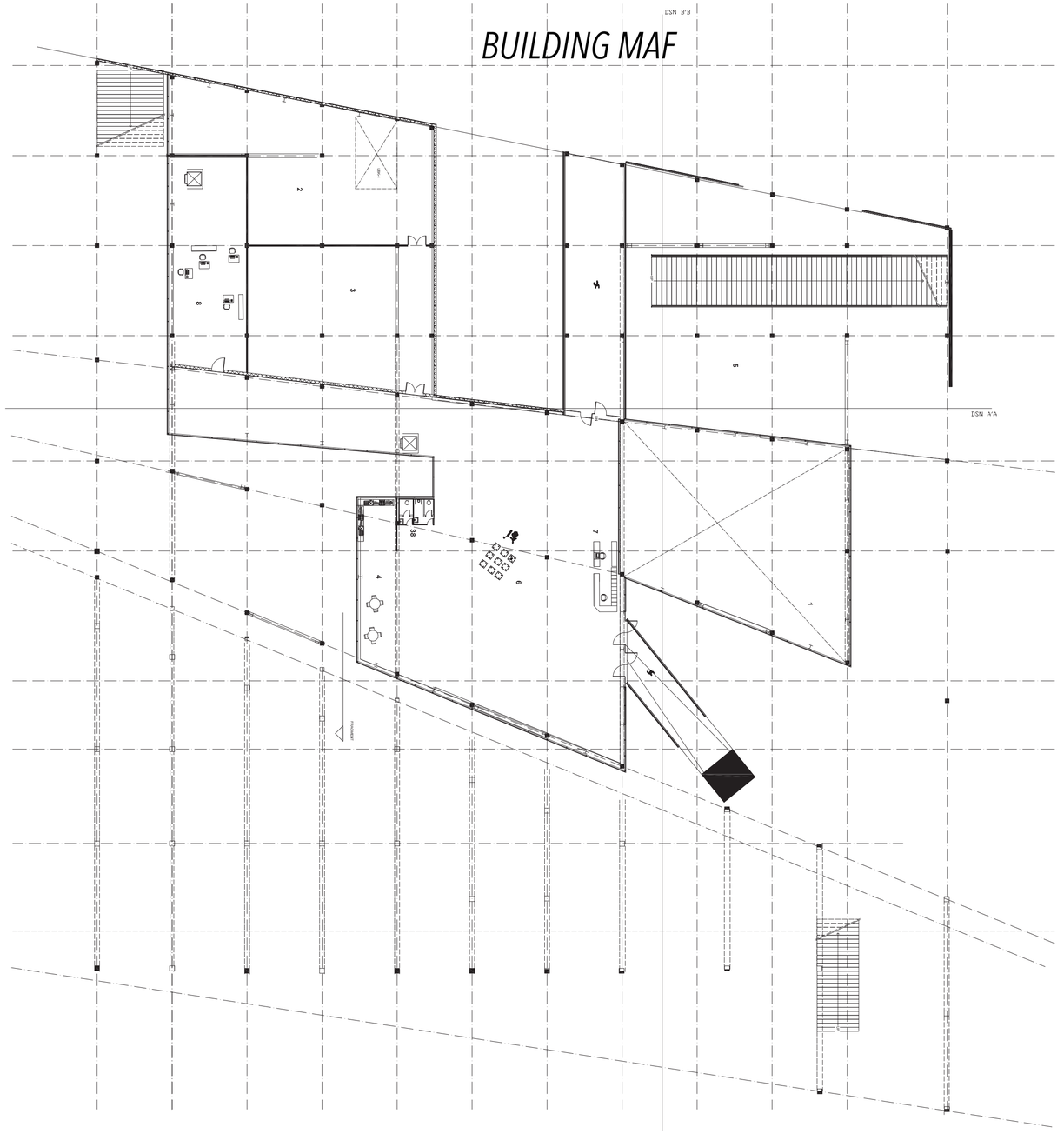
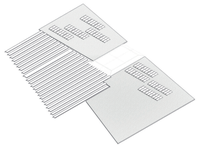

MAF

PROGRAM - CIRCULATION

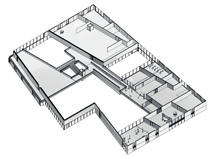
Main Entrance

LEVEL 1

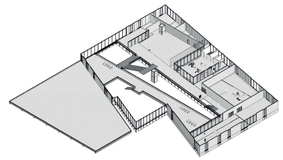




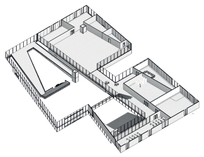
1 roof



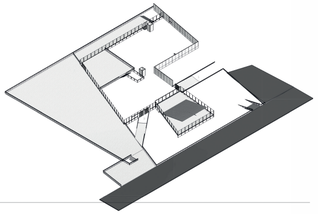
2 +5



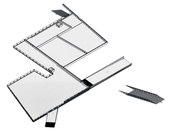
3 +4



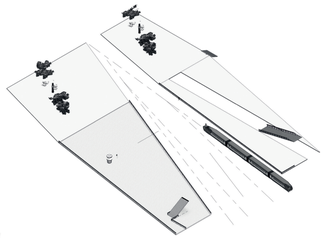
4 +3



5 +2



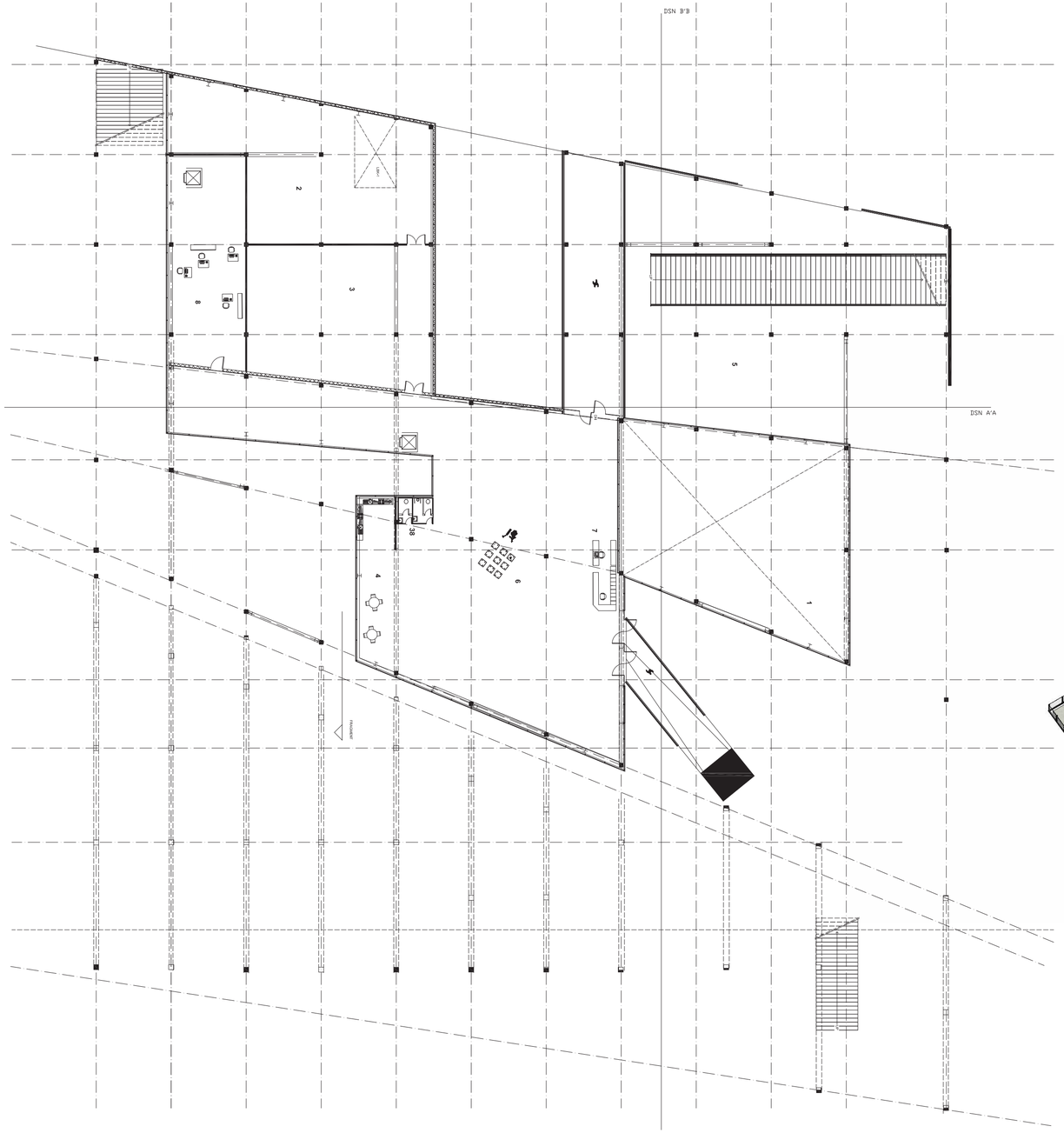
6 +1

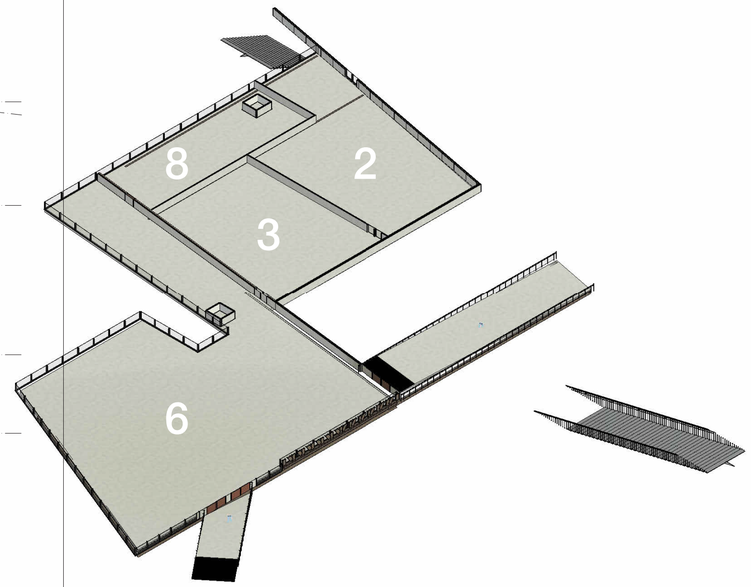


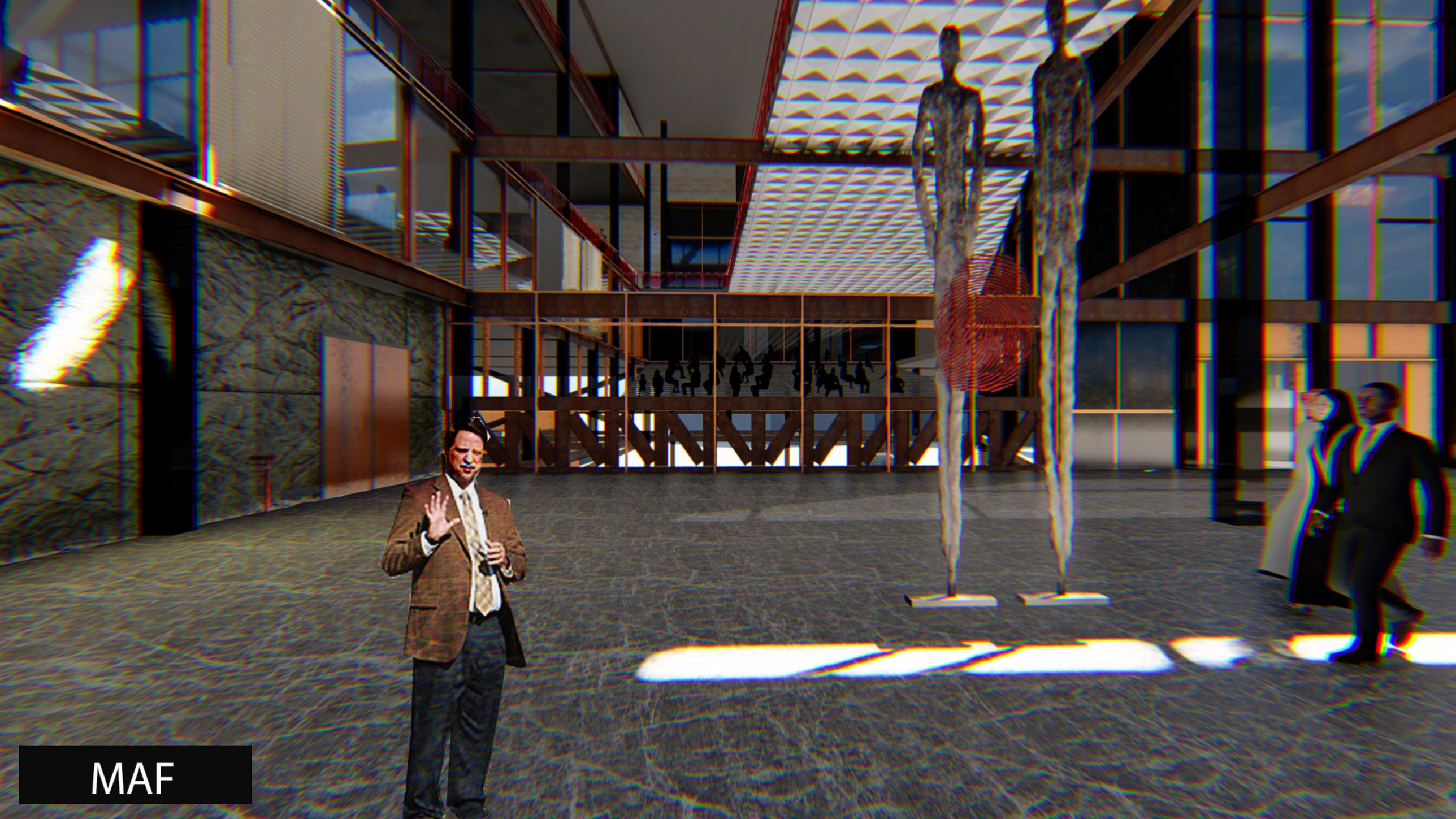
7 groundfloor

Main Entrance

LEVEL 1

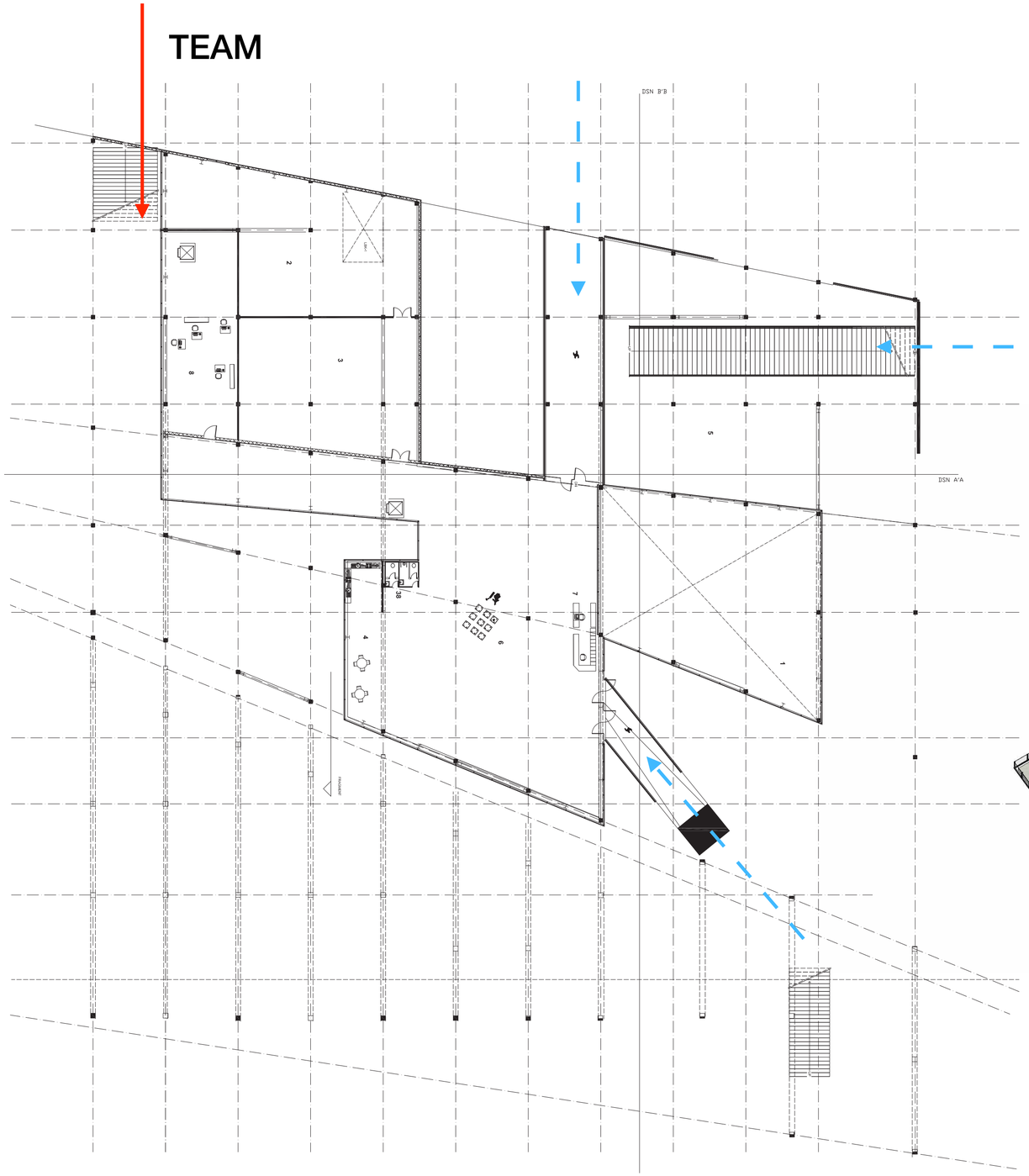


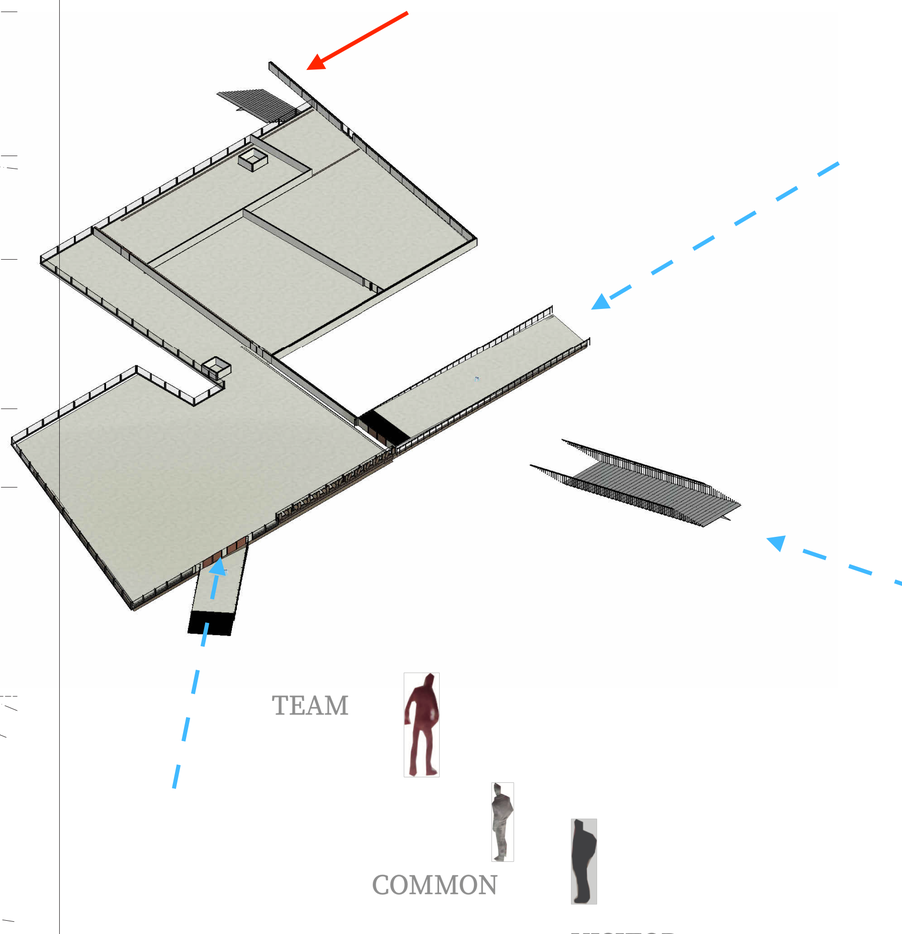


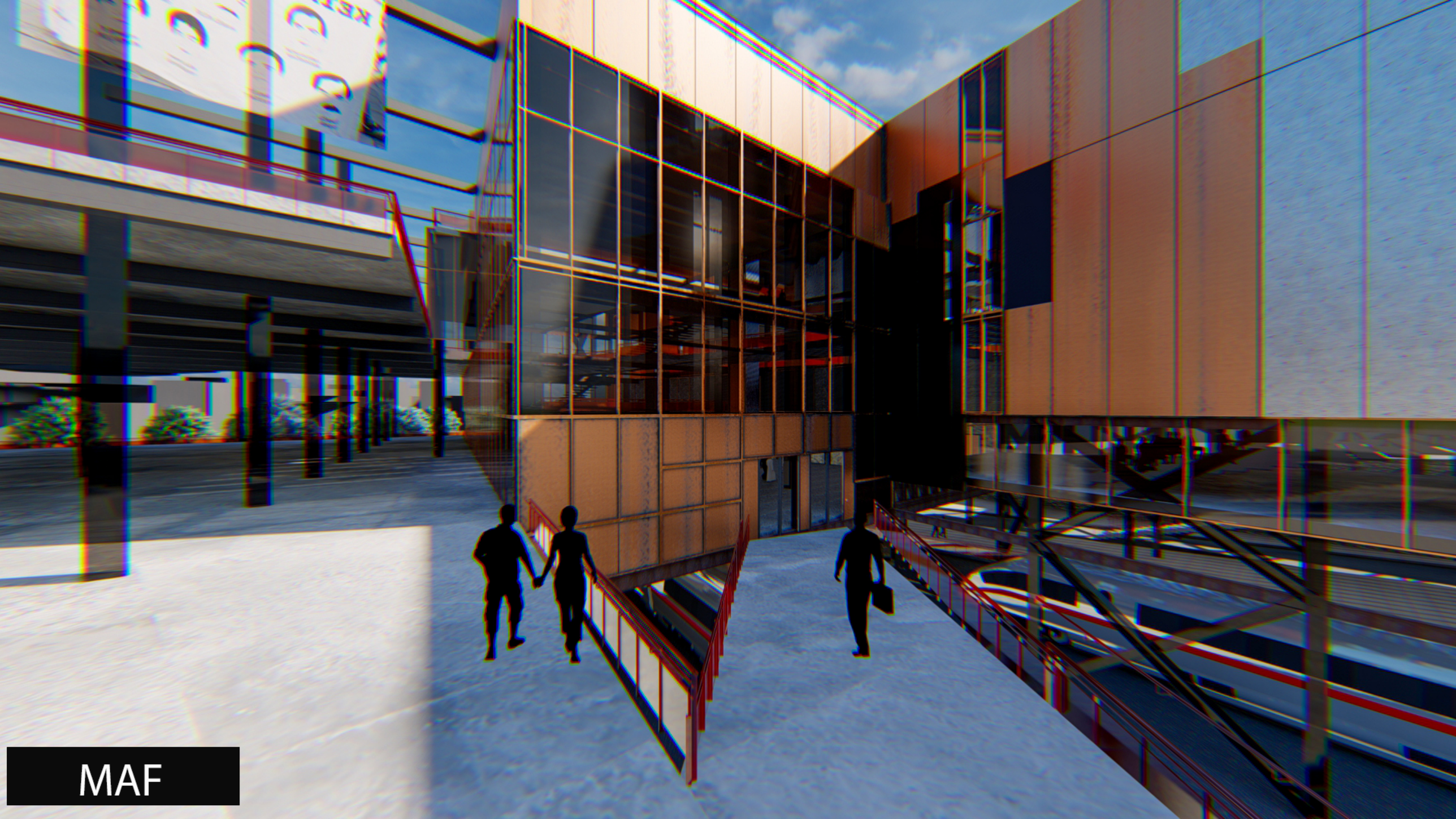

MAF

CIRCULTATION

LEVEL 1



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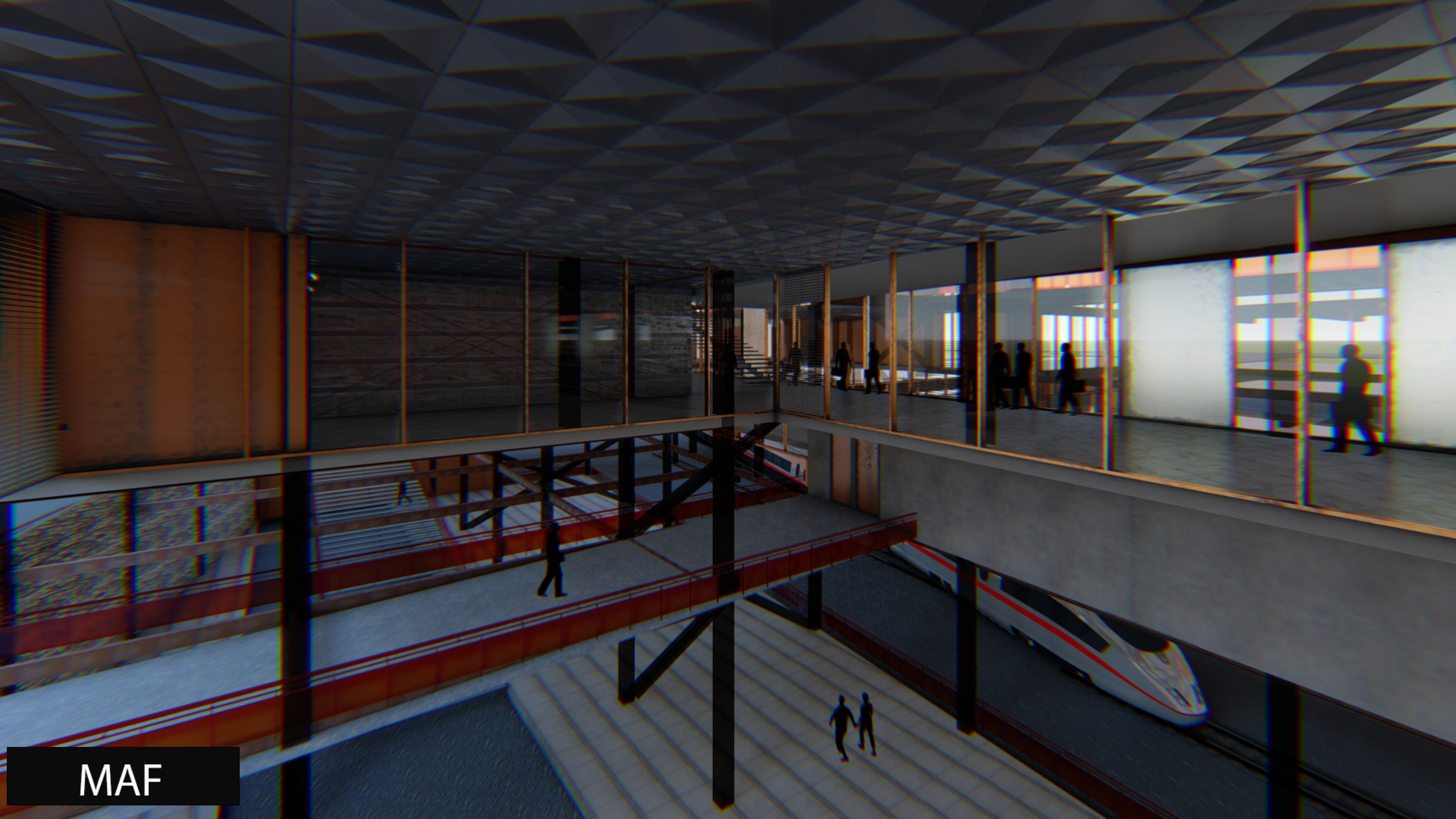
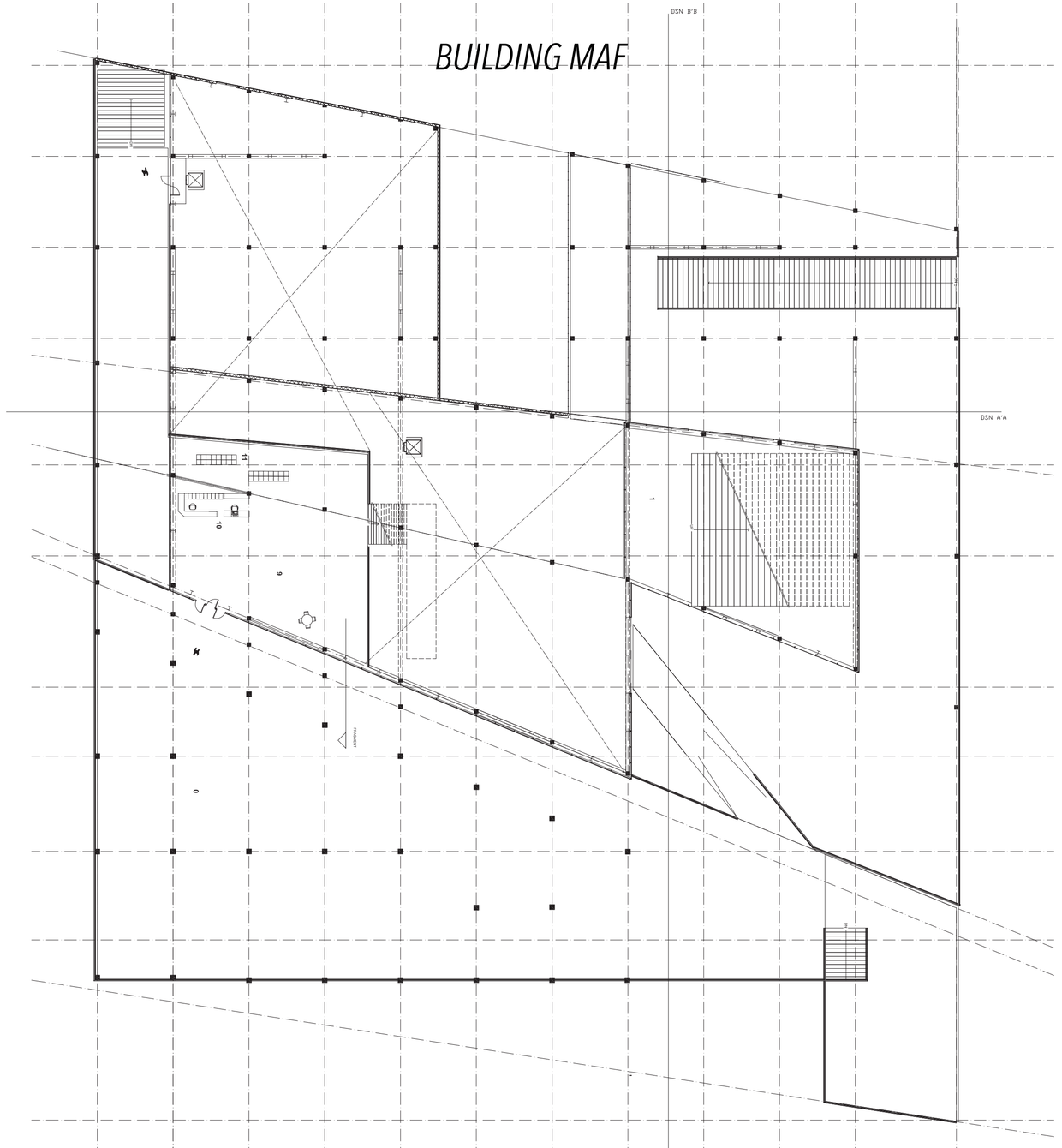

MAF

PROGRAM - CIRCULATION

PLAZA

MAF ENTRANCE

LEVEL 2



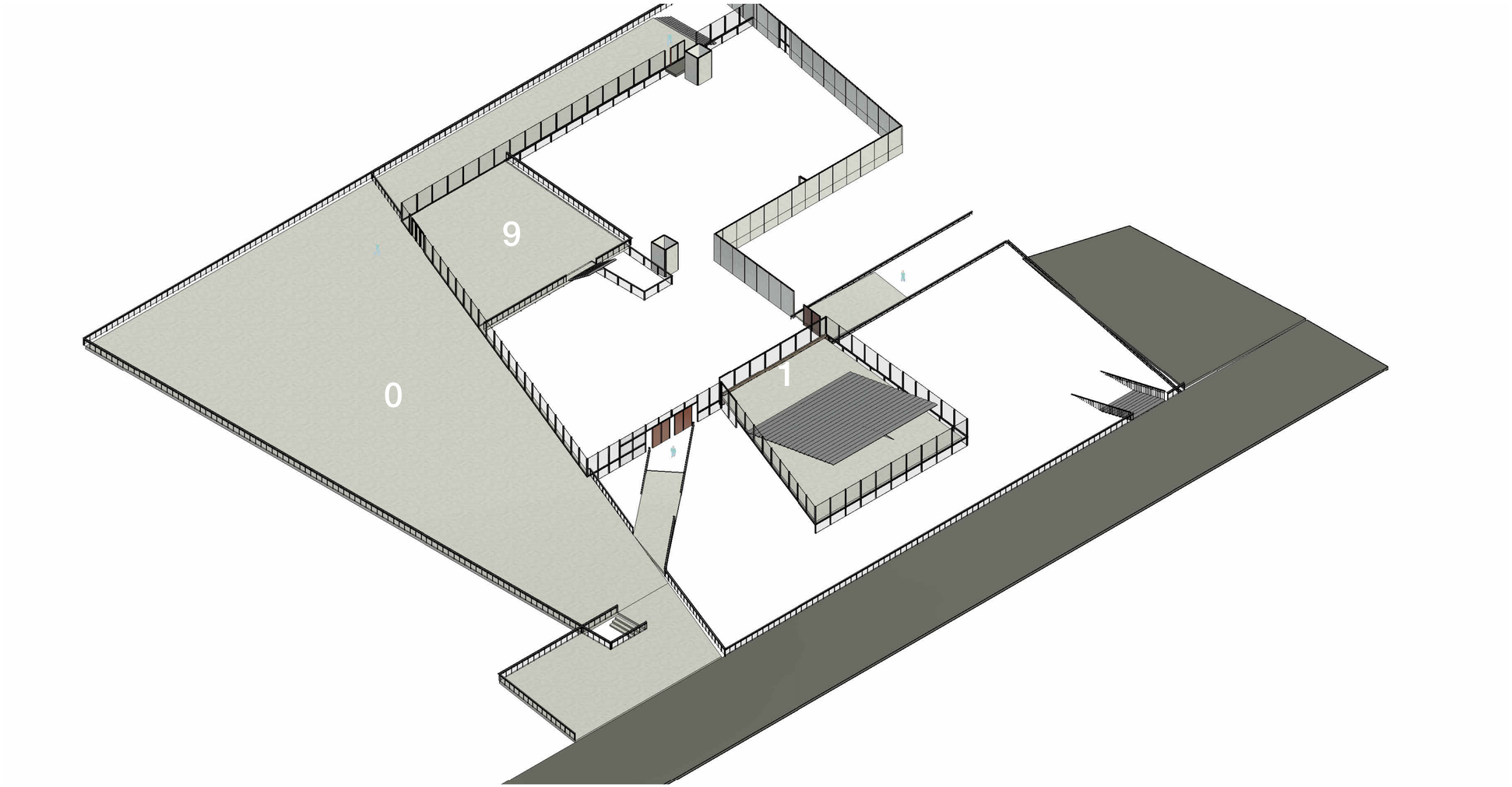
PROGRAM - CIRCULATION

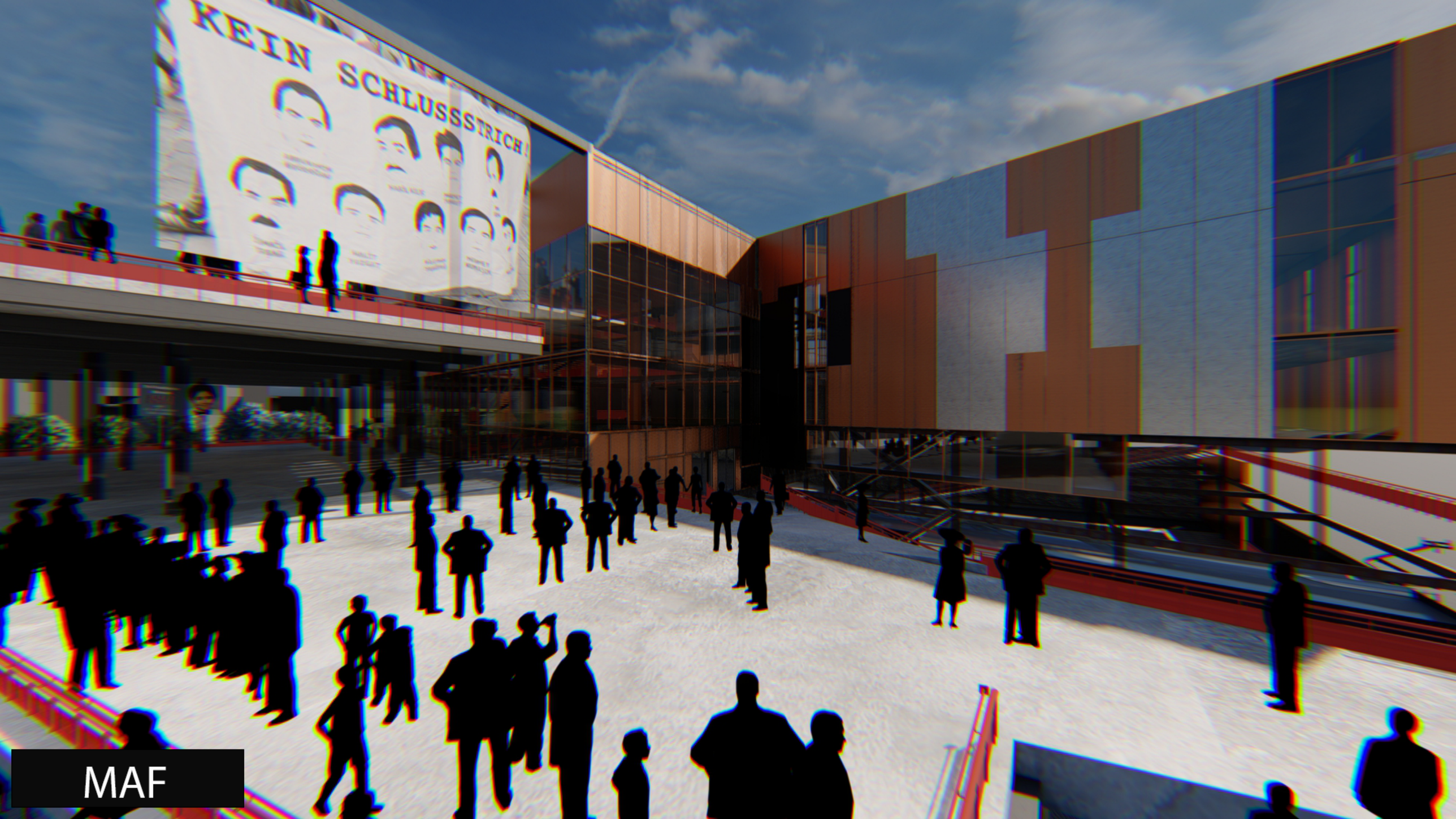
BUILDING MAF

PLAZA

MAF ENTRANCE

LEVEL 2




KEIN SCHLUSSSTRICH!
MAF

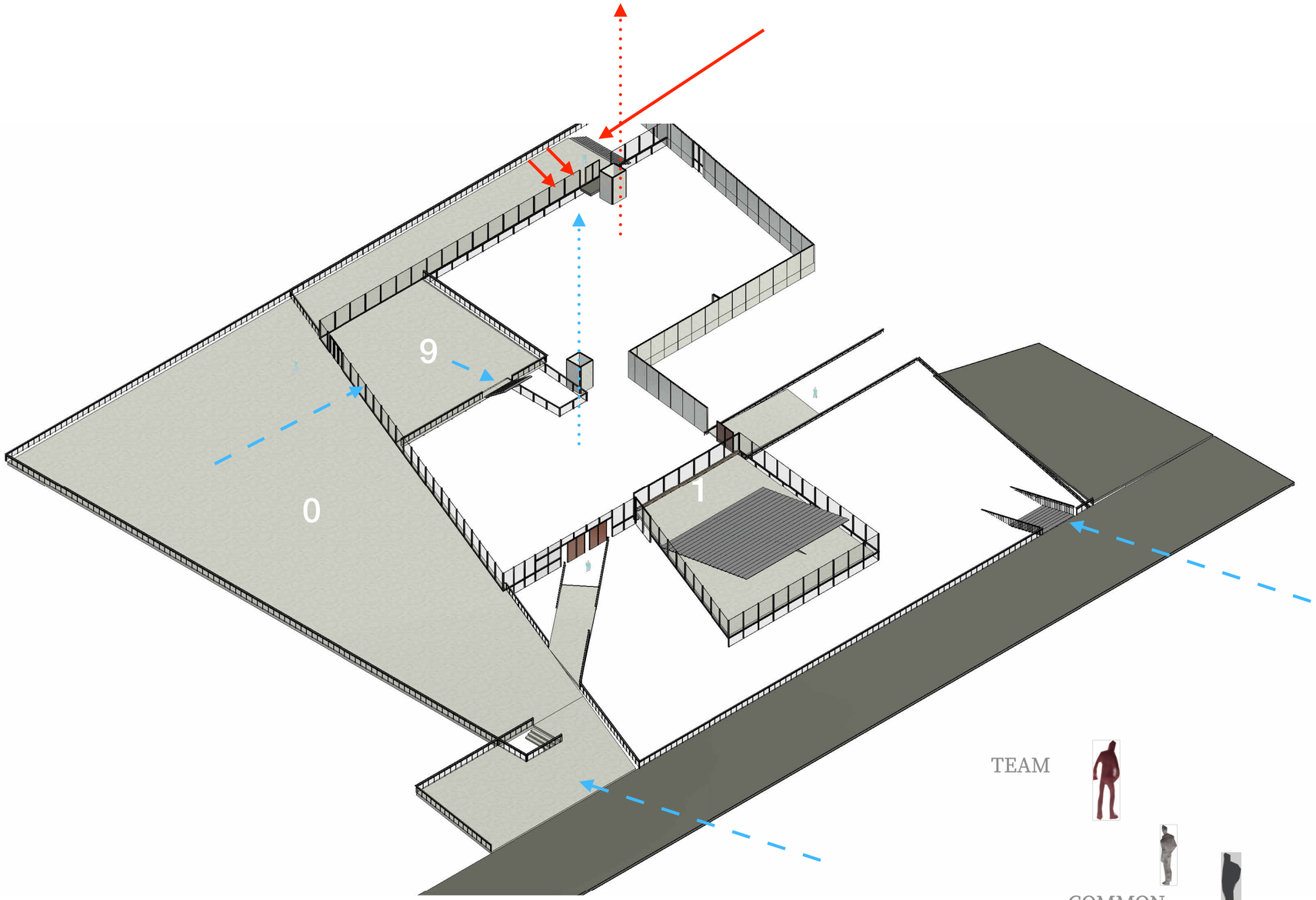
PROGRAM - CIRCULATION

PLAZA

MAF ENTRANCE

LEVEL 2

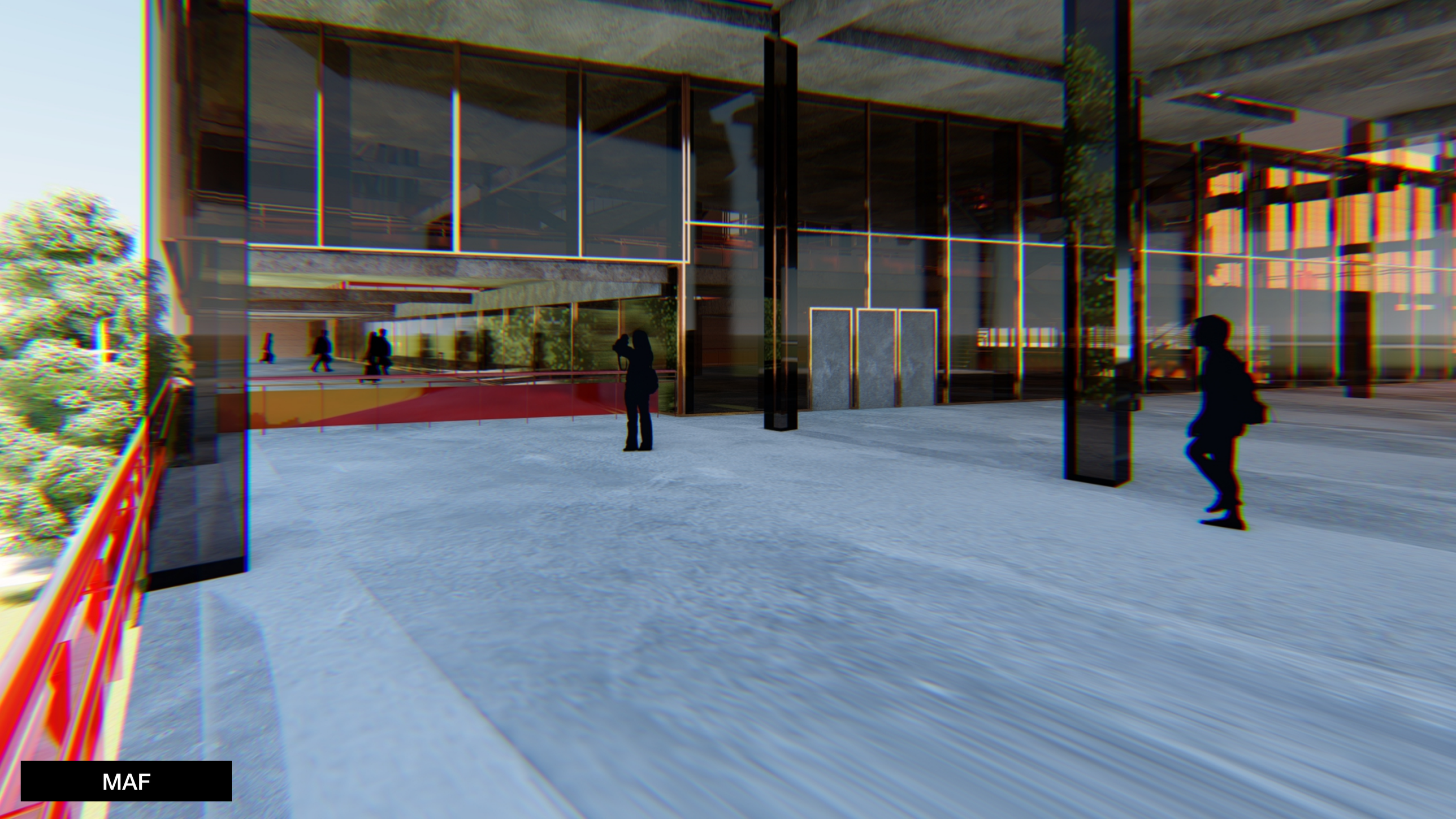
BUILDING MAF



TEAM

COMMON

VISITOR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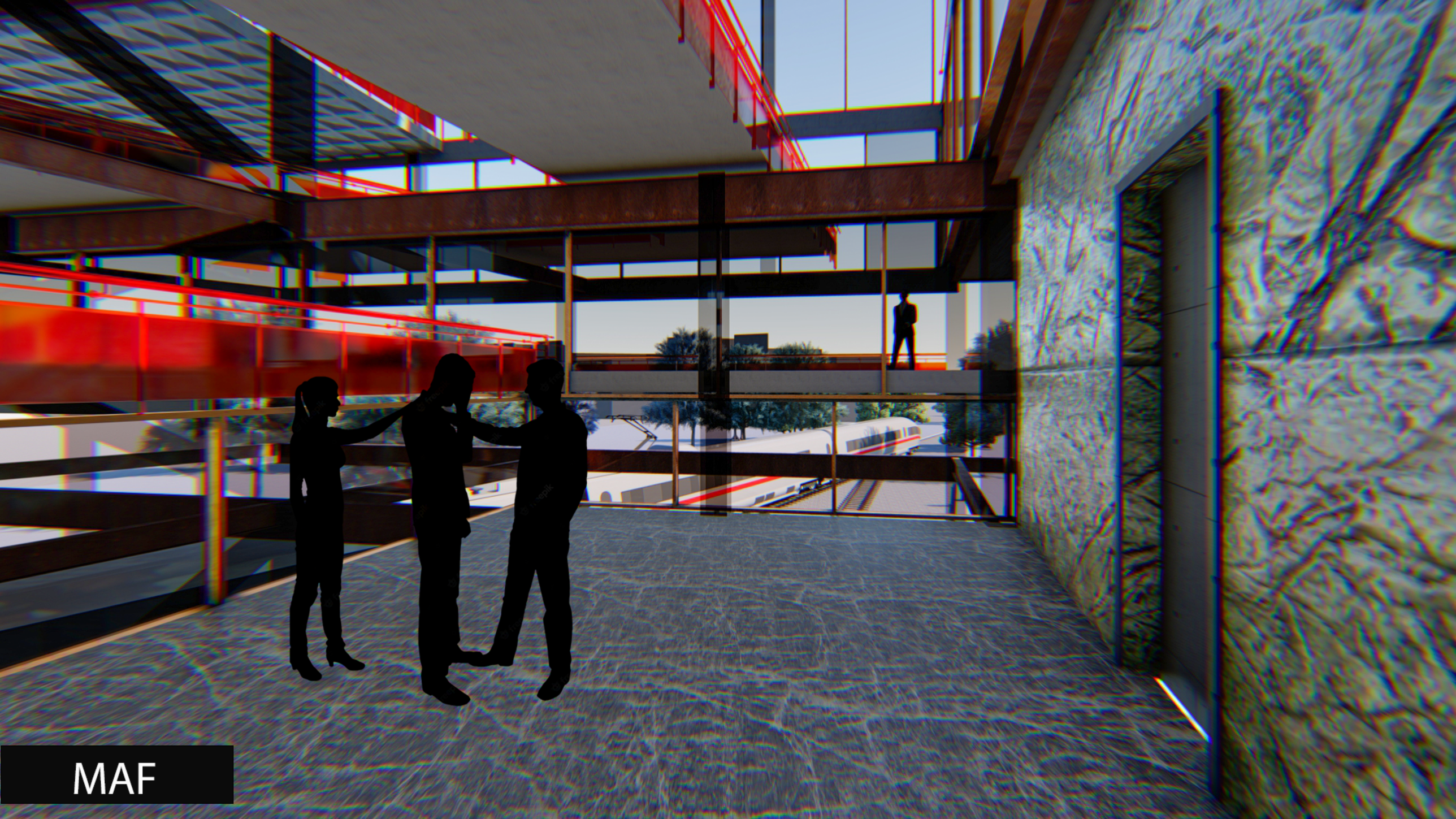
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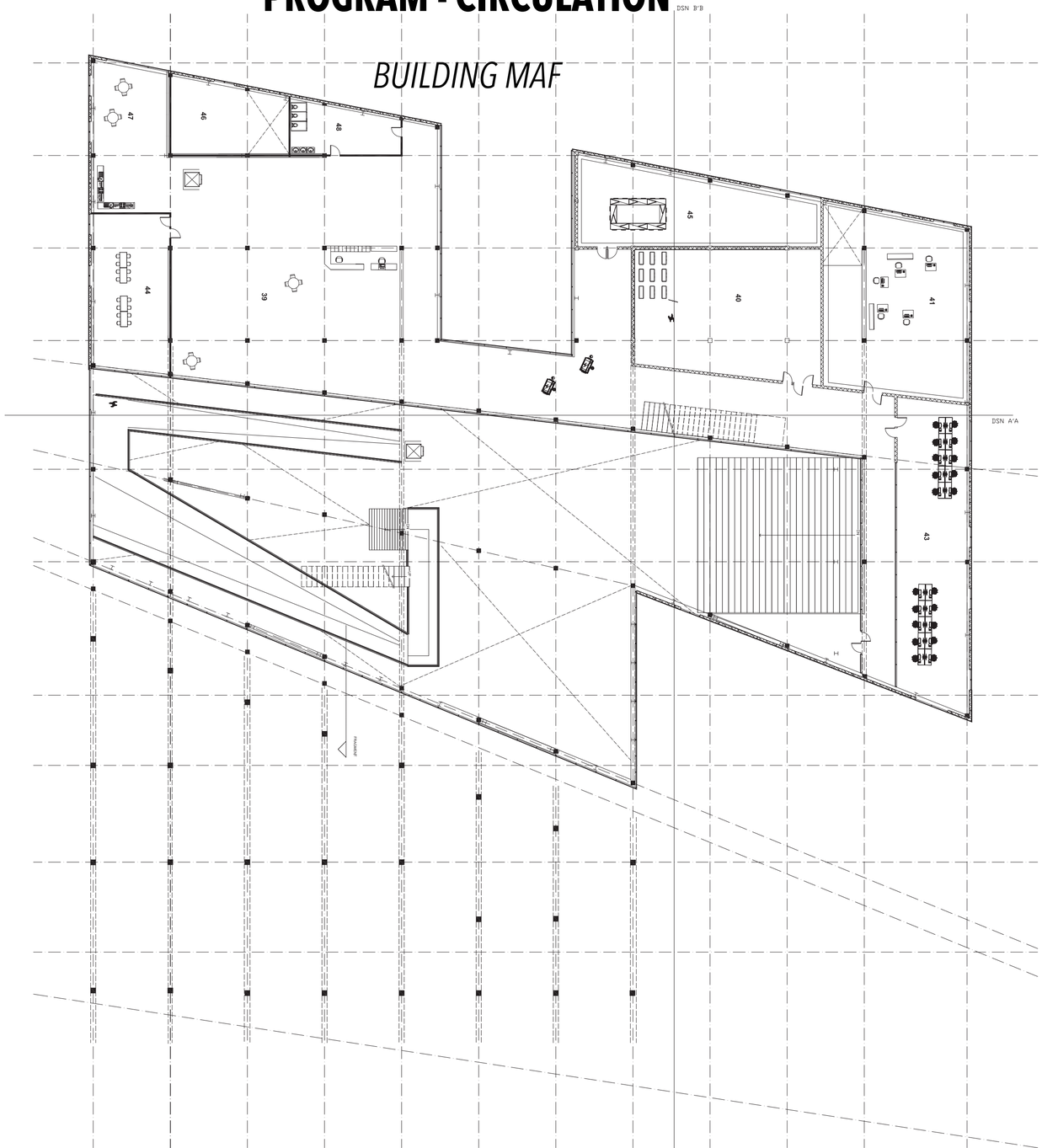
PROGRAM - CIRCULATION

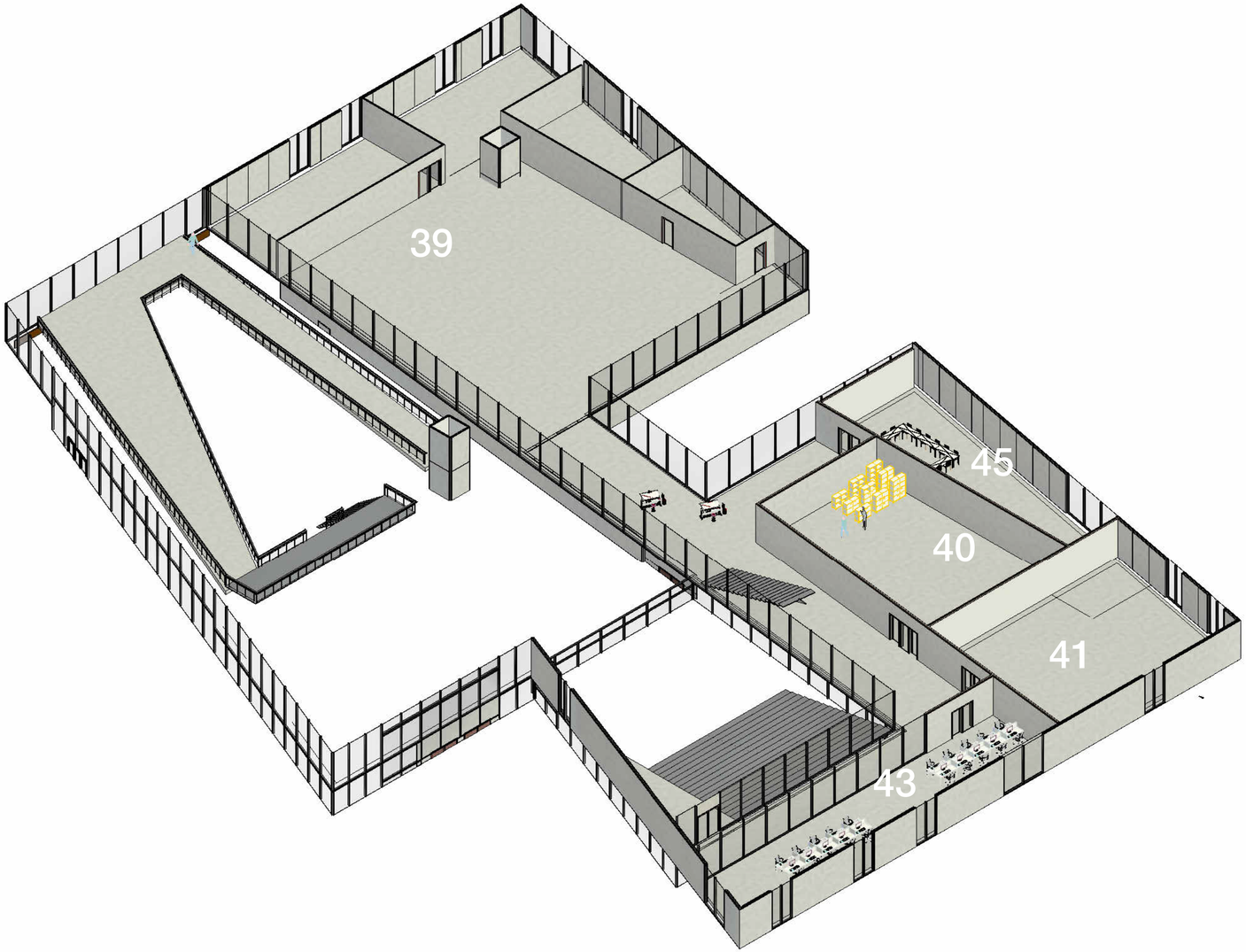
LEVEL 3

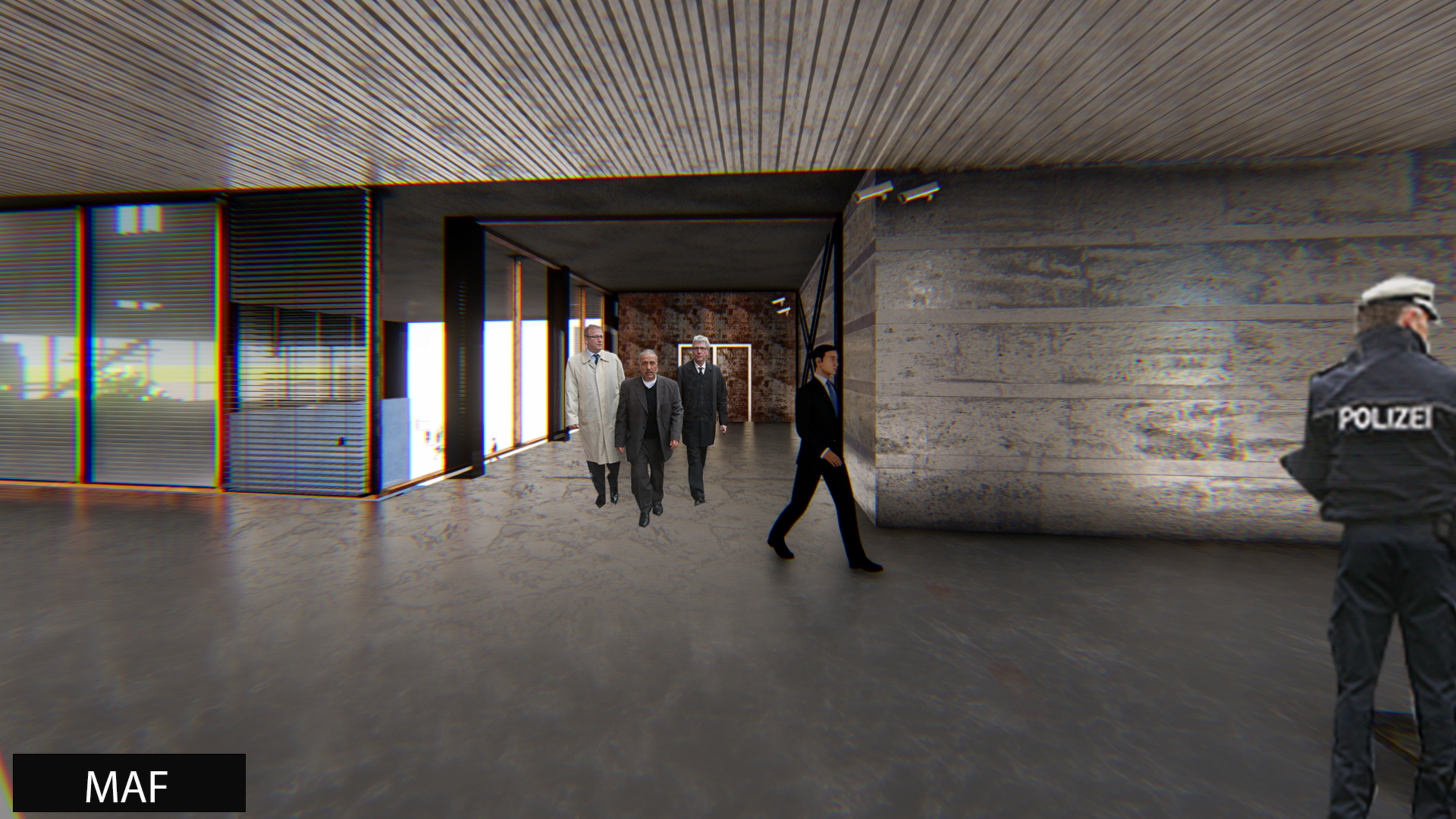
BUILDING MAF



PROGRAM - CIRCULATION

BUILDING MAF

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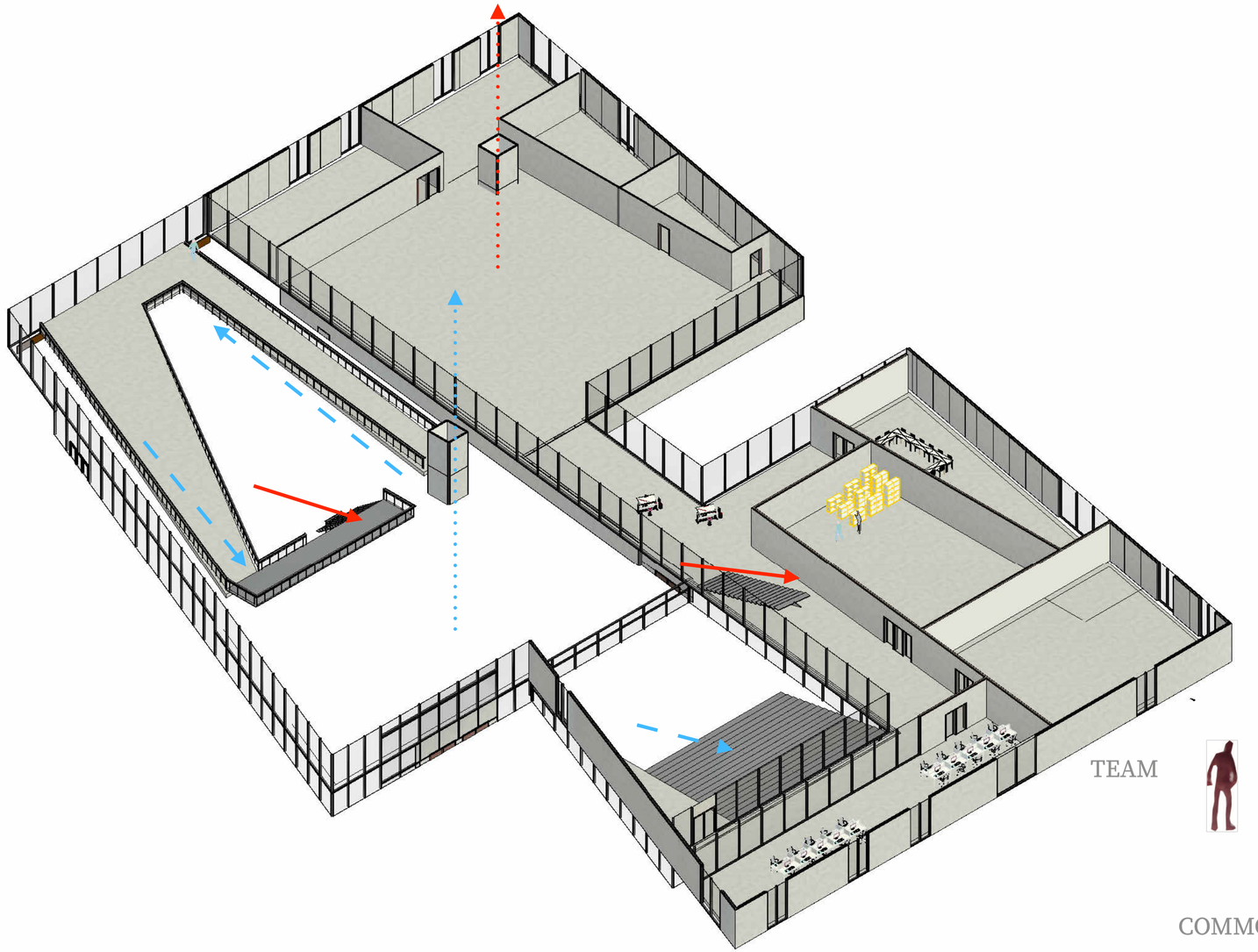
MAF


MAF

PROGRAM - CIRCULATION

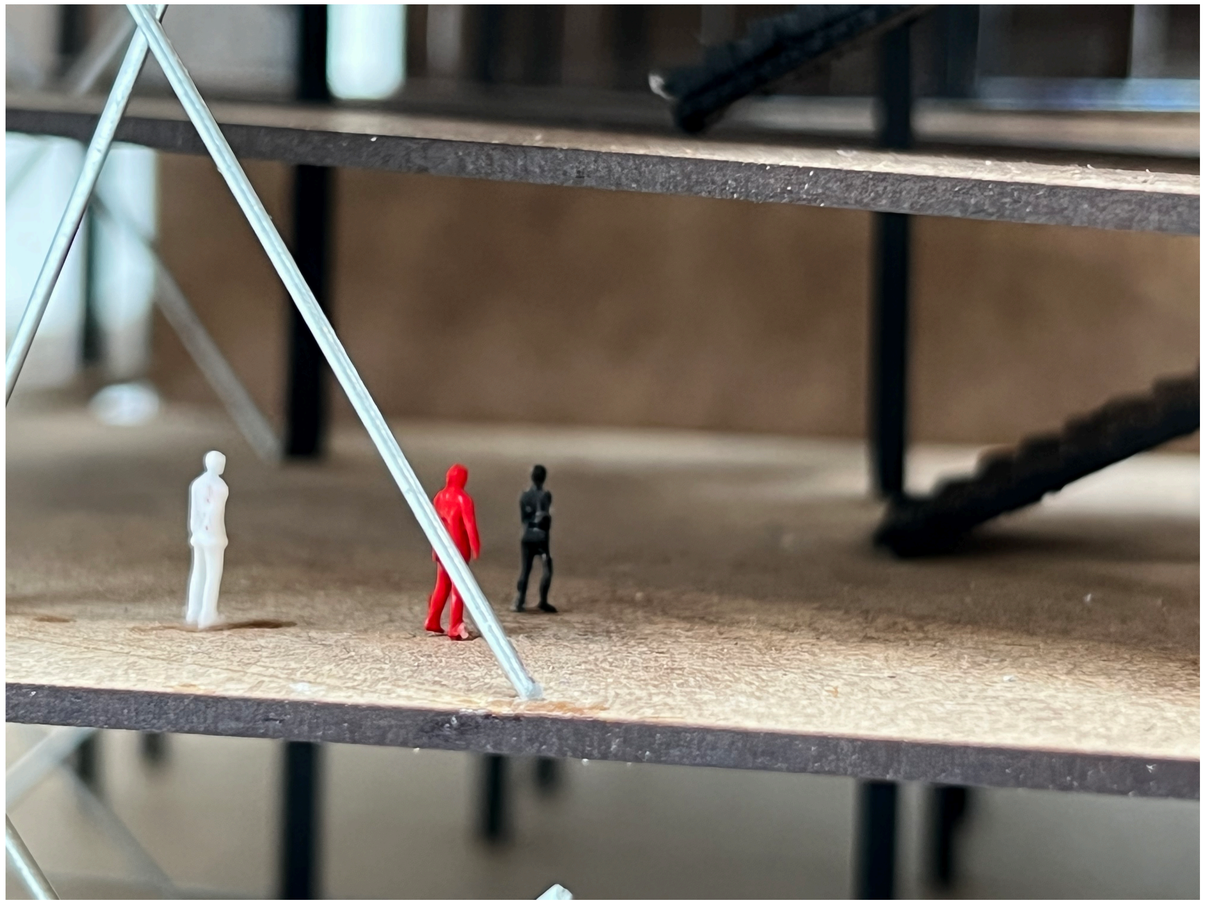
BUILDING MAF

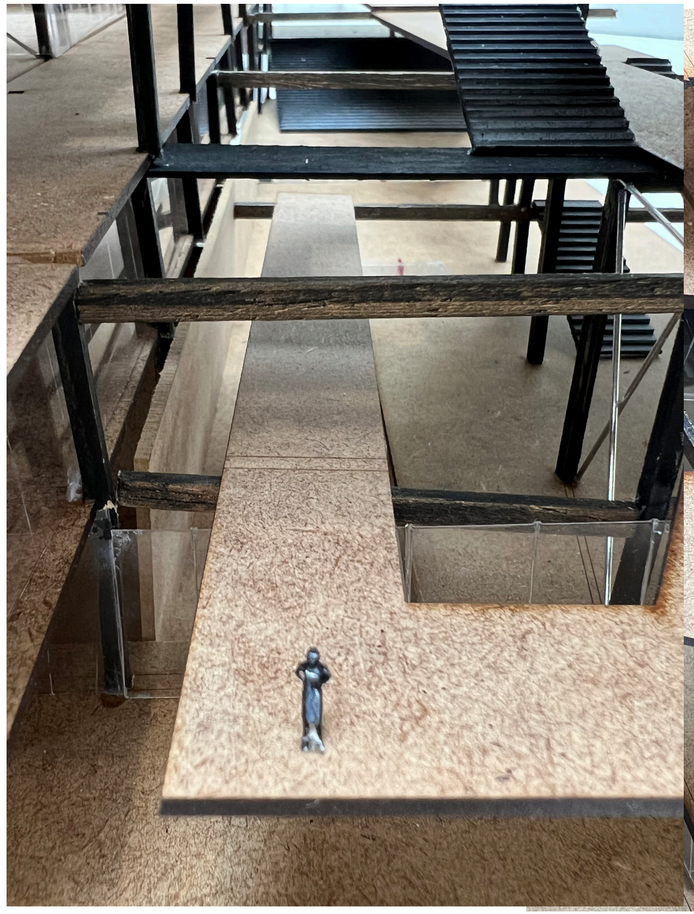


TEAM

COMMON

VISITOR







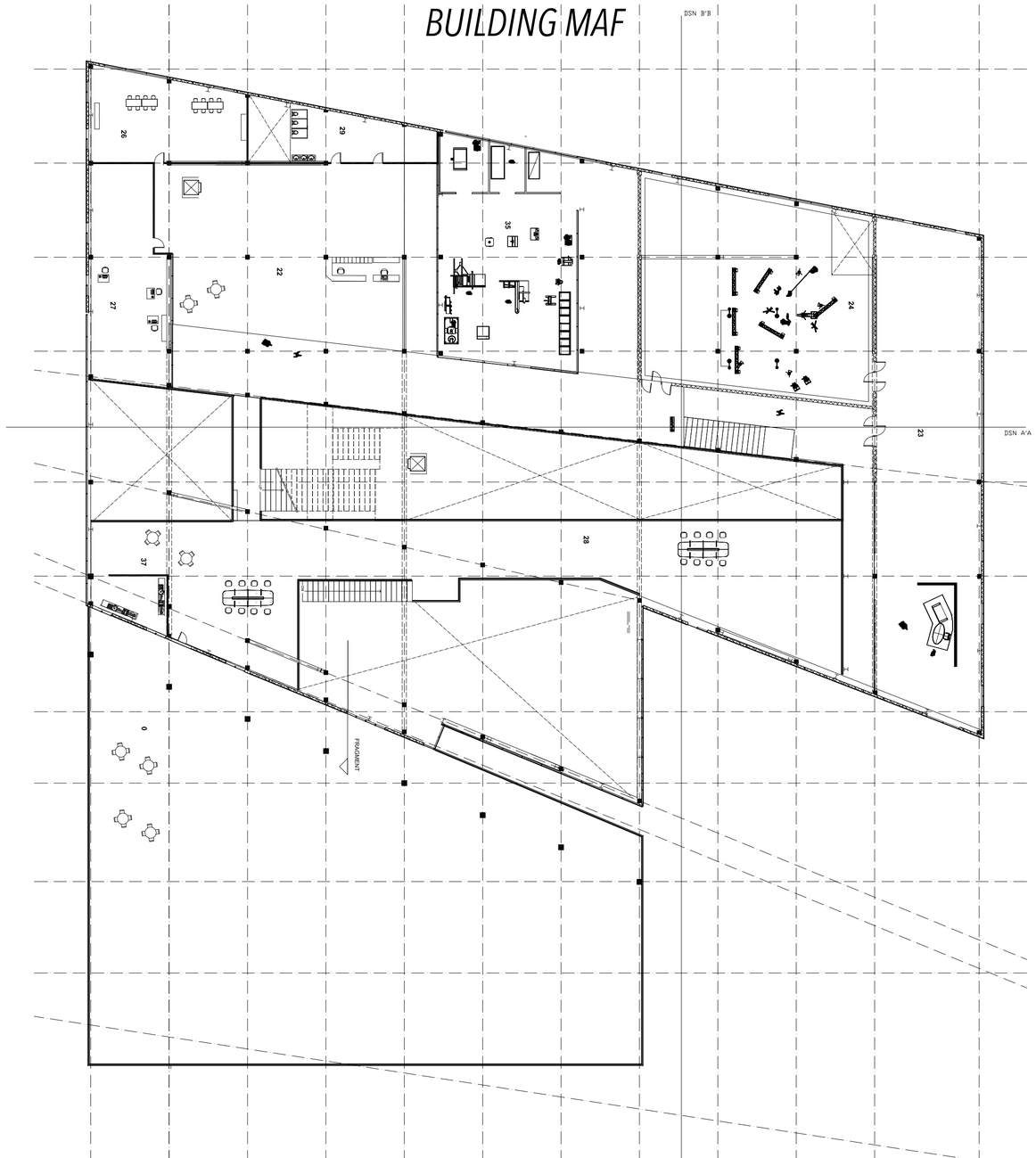
MAF

PROGRAM - CIRCULATION

BROADCASTING

DEPARTMENT

LEVEL 4

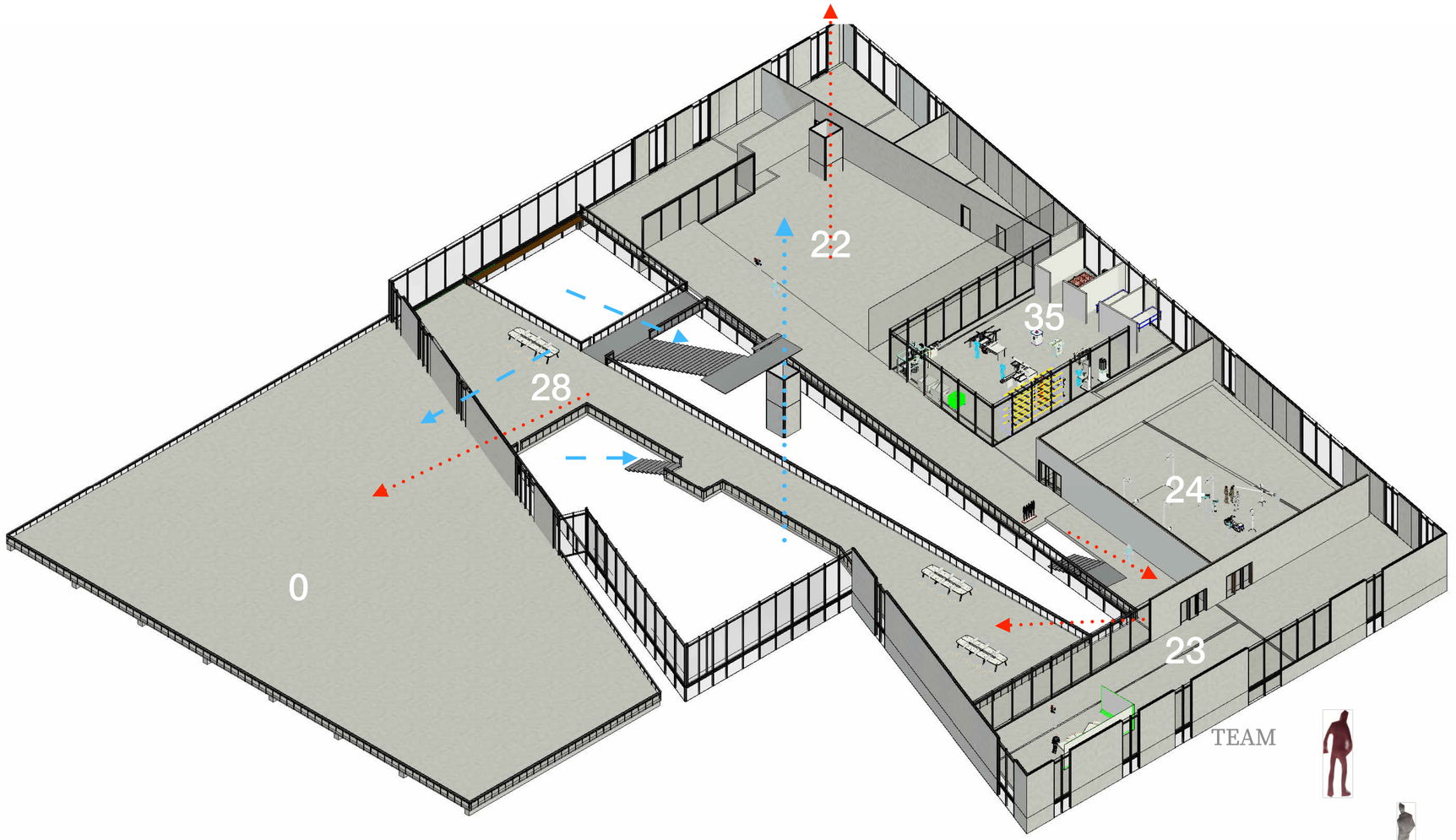


PROGRAM - CIRCULATION

BROADCASTING DEPARTMENT

LEVEL 4

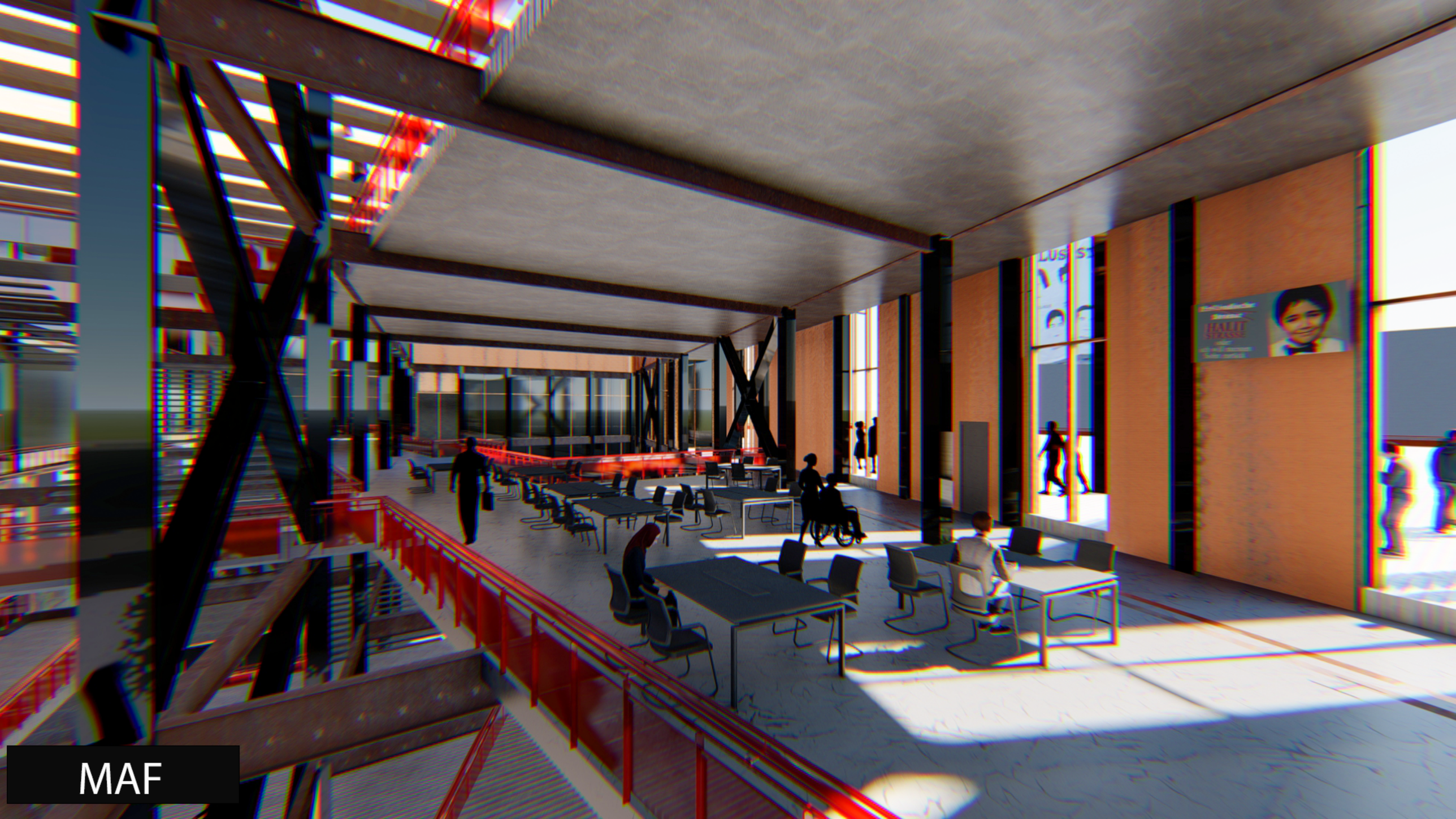
BUILDING MAF



TEAM

COMMON

VISITOR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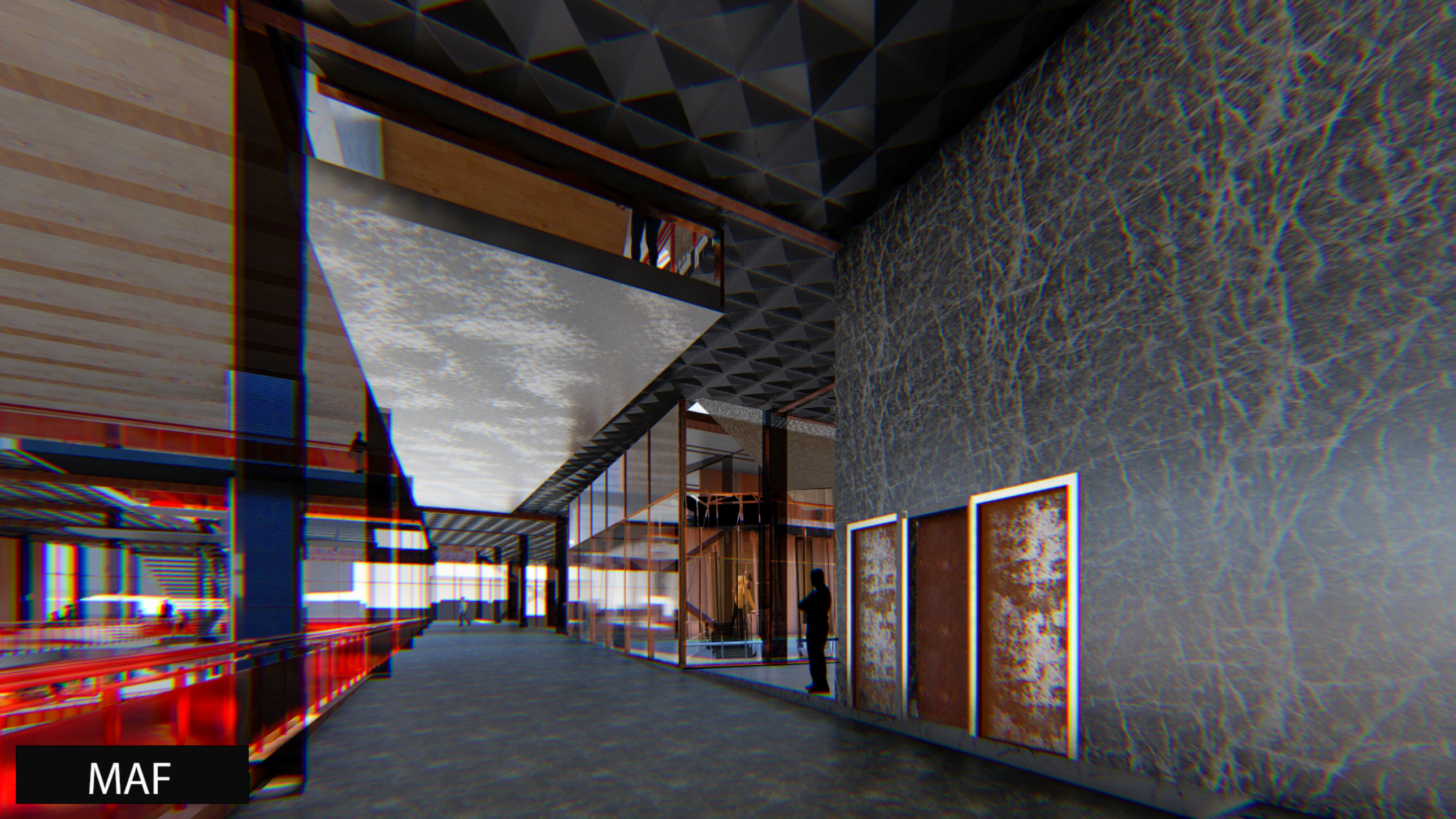
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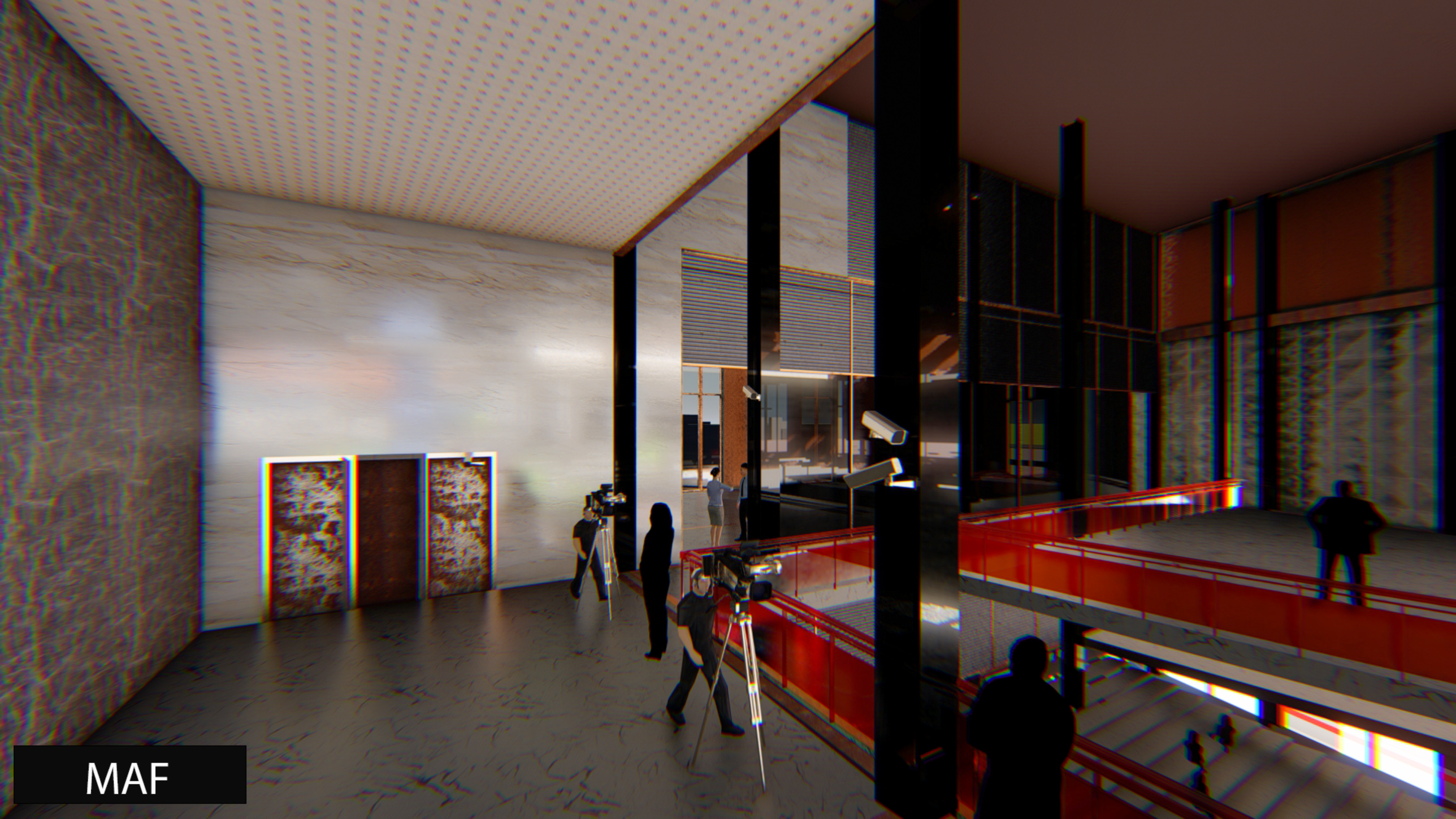

MAF

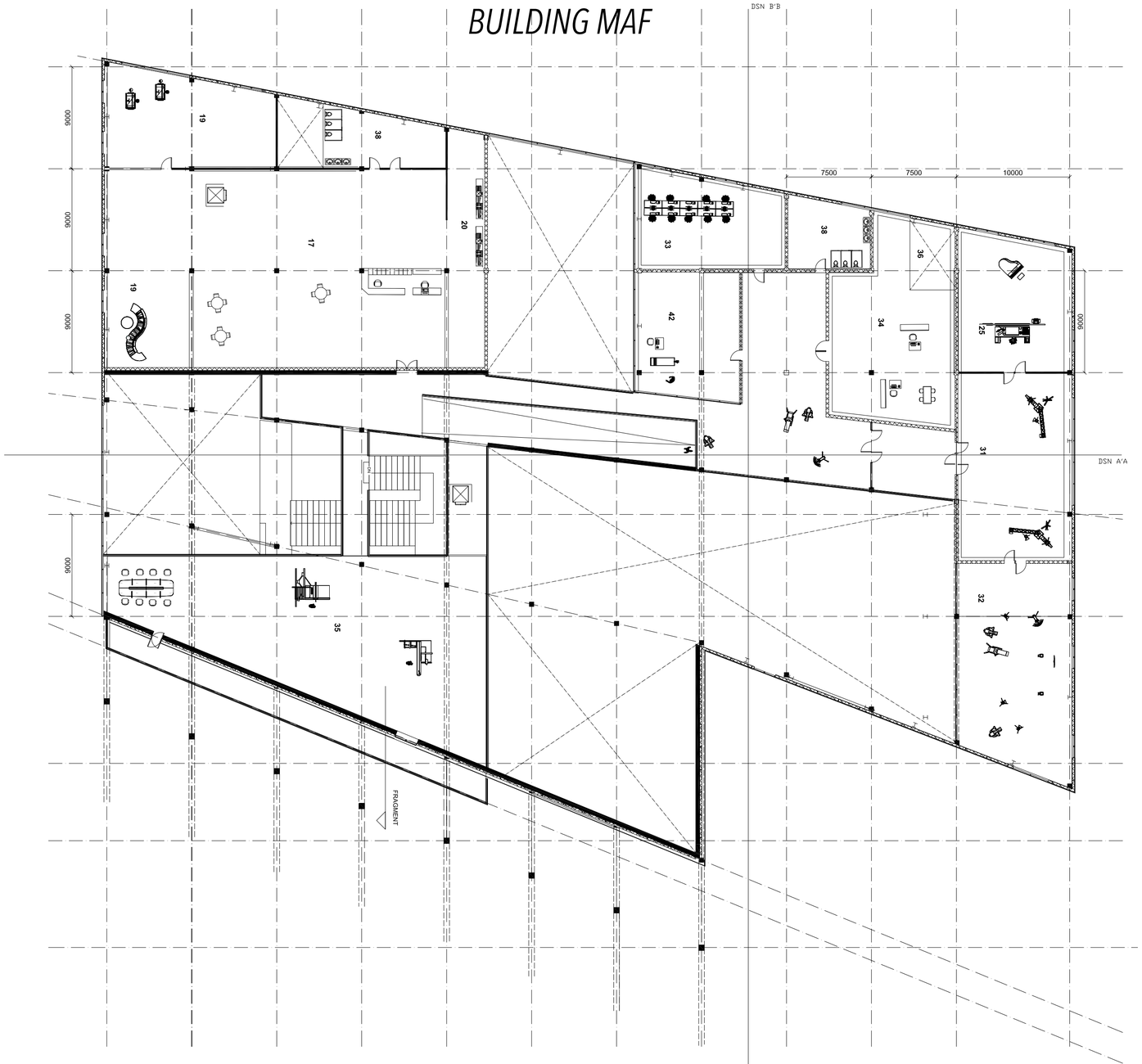
PROGRAM - CIRCULATION

PRODUCTION

DEPARTMENT

LEVEL 5

BUILDING MAF



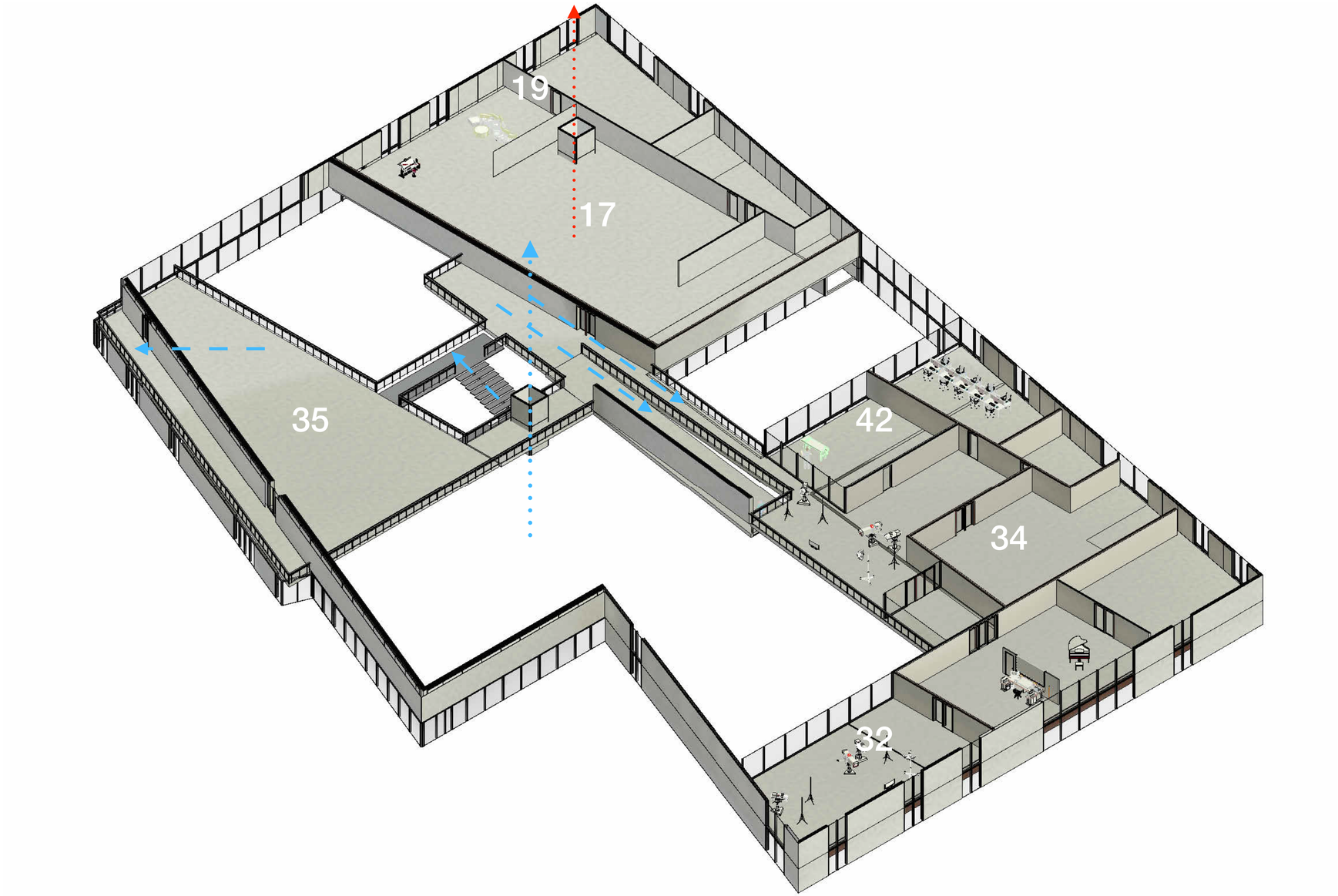
PROGRAM - CIRCULATION

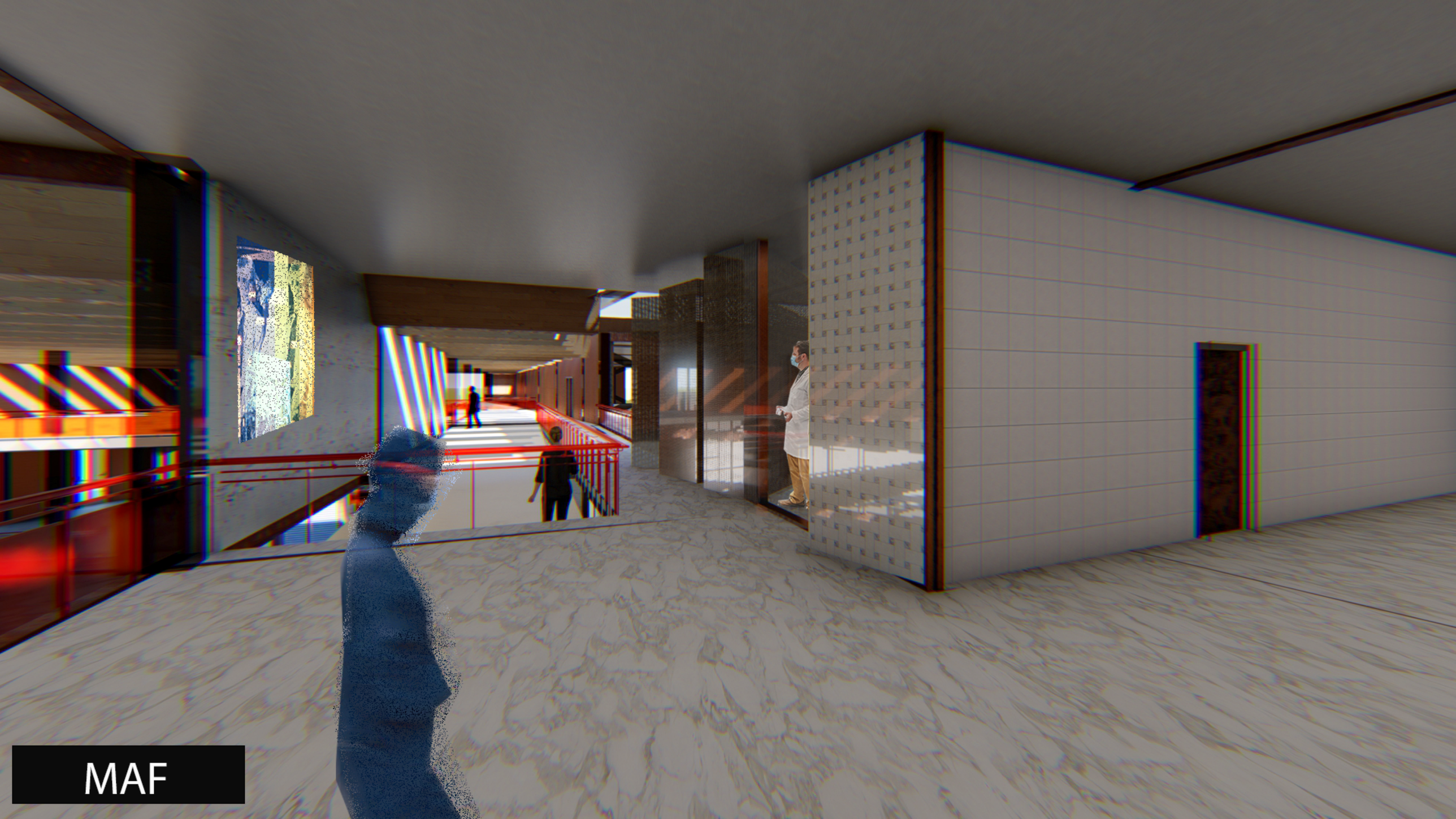
PRODUCTION

DEPARTMENT

LEVEL 5

BUILDING MAF

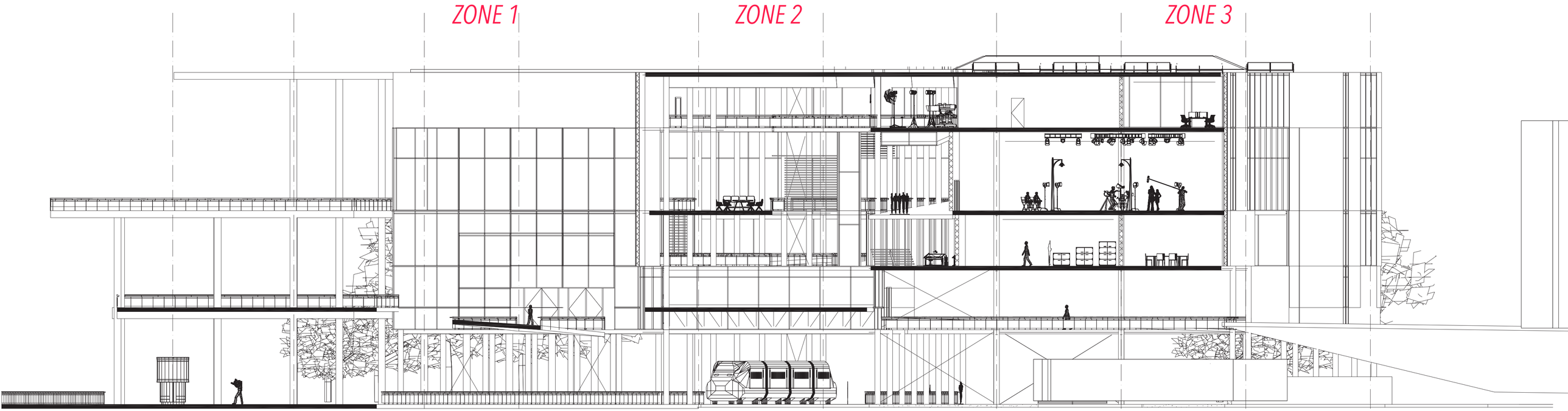



MAF

CLIMATE

BUILDING - PLAZA

translating CONCEPT to a Climate design

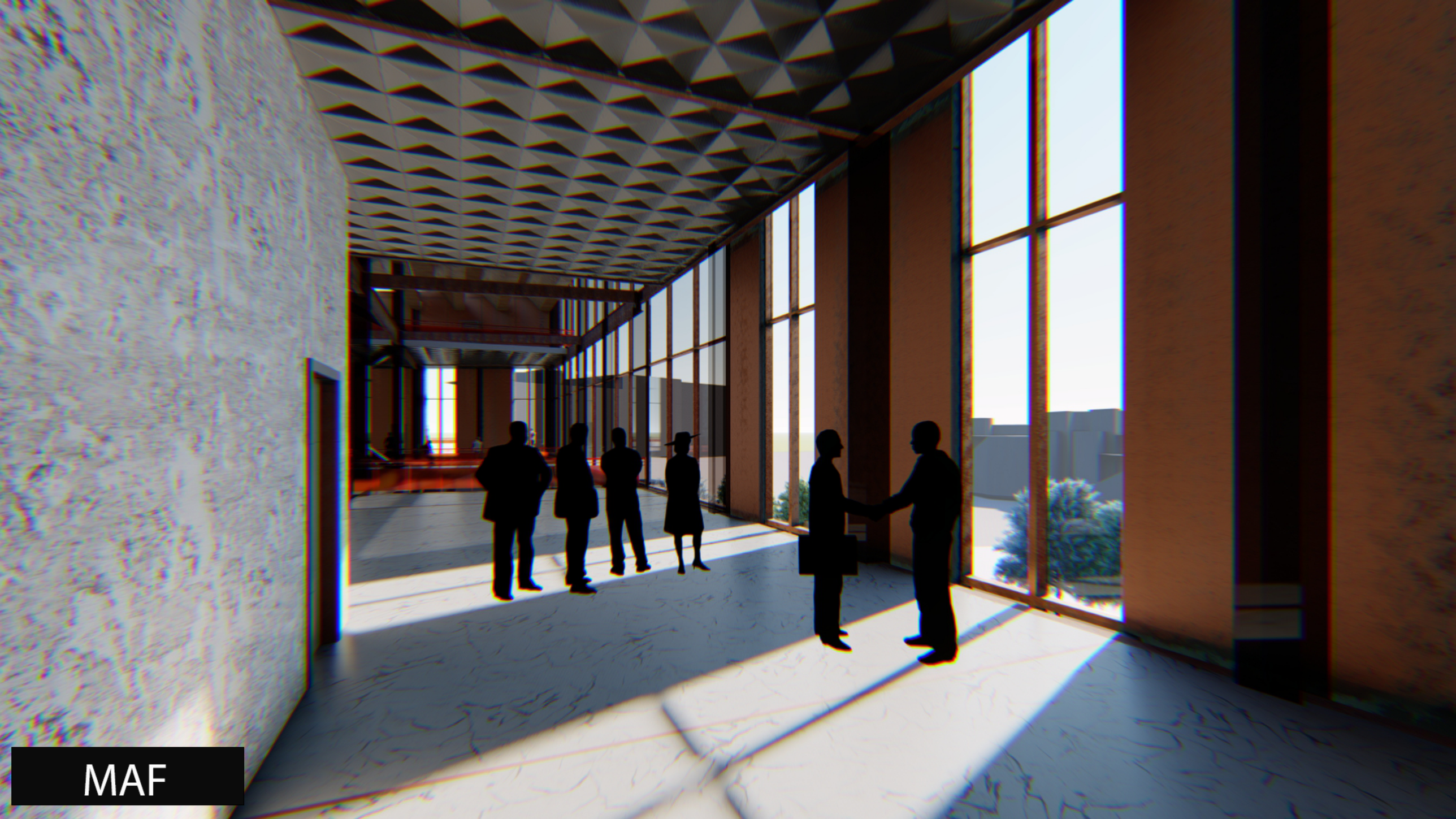


FACADES

CLIMATE CONCEPT

FRAGMENT

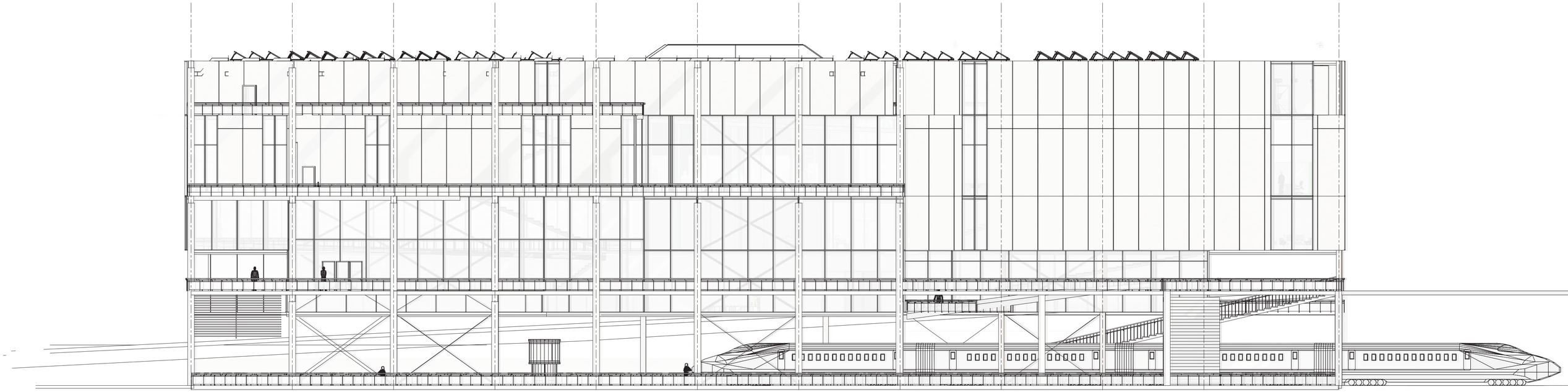
DETAILS + BENG


MAF

CLIMATE

BUILDING - PLAZA

translating CONCEPT to a Climate design

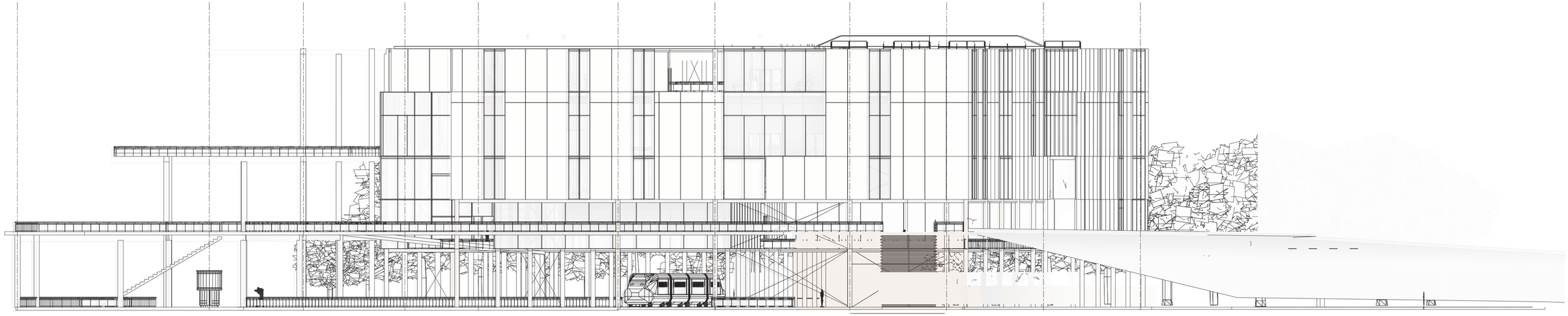


FACADES

CLIMATE

BUILDING - PLAZA

translating CONCEPT to a Climate design



FACADES

ZW

Glaspercentage zonbelaste gevels	60	%	glaspercentage t.o.v. geveloppervlakte alleen gevels Oost-Zuid-West
ZTA-glas	0,45	-	bij zonwering op
ZTA-zonwering	0,2	-	bij zonwering neer
Percentage natuurlijke ventilatie	55	%	vloeroppervlakte met koeling door natuurlijke ventilatie in tussenseizoenen en zomer
Percentage daglicht	60	%	vloeroppervlakte met 70% van de gebruikstijd voldoende daglicht
Thermische massa Dm	360	kJ/m²K	bepaal Dm volgens tabblad Thermische massa (2400 kg/m3 x 0,3 dikte vloer = 720 kg/m2> 400)
Energieopwekking	255000	kWh/jaar	opgewekte elektriciteit
	Dak Oppv->		E=700> 1575 / 2 = 1137 x 225 = 255000
			Dakopv: (35x20 +35x45) / 2m2 werkruimte x 225 kWh/jaar

BENG-label

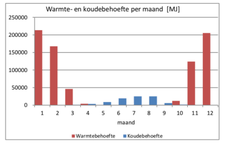
Project	PB	
KENTALLEN		
Gebruiksoppervlakte Ag	m²	7200
Verliesoppervlakte/Volume	m²/m³	0,16
Ugemiddeld	W/m²K	0,554
Glaspercentage*ZTA	%	12
% Natuurlijke ventilatie	%	55
% Daglicht	%	60
Elektriciteitsproductie /Ag	kWh/m²	35,4

BENG indicatoren

Energiebehoefte	49	kWh/m2
Primair fossiel energiegebruik	17	kWh/m2
Aandeel hernieuwbare energie	78	%

De energielast geeft een indicatie van de energie-omgeving van het ontwerp.
Bevat E.E. tijdverlies/winsten voor ventilatie/installaties.

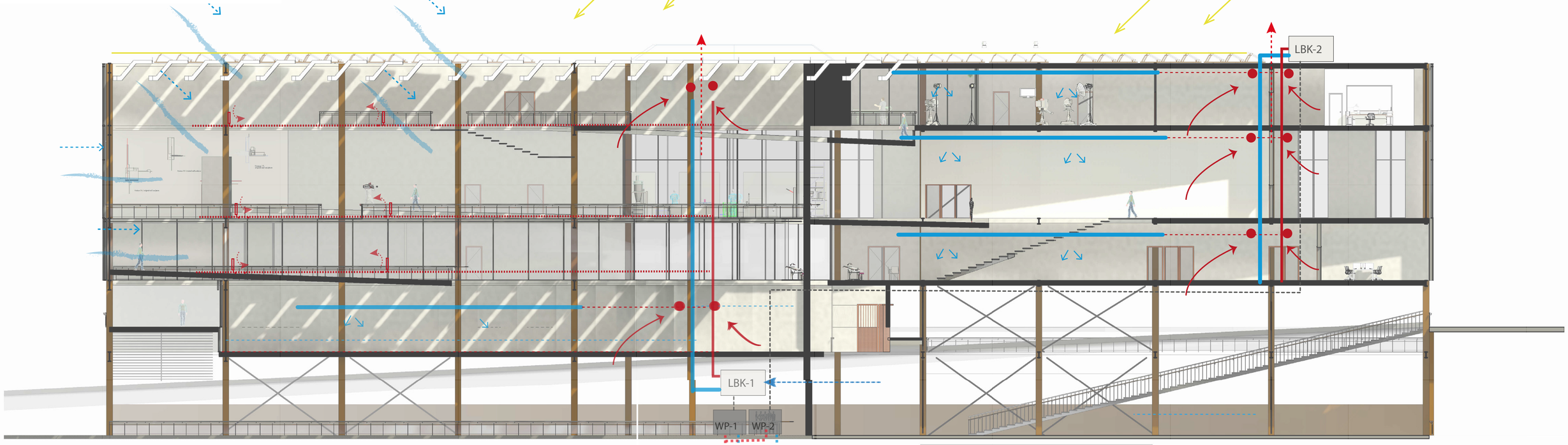
4440B01

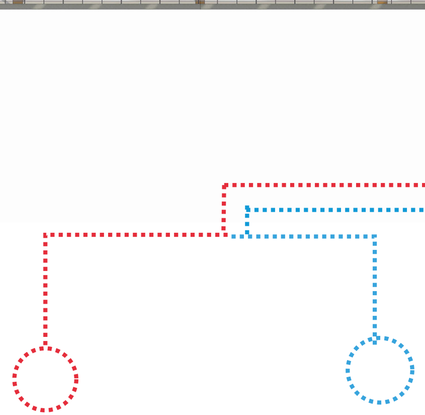


CLIMATE

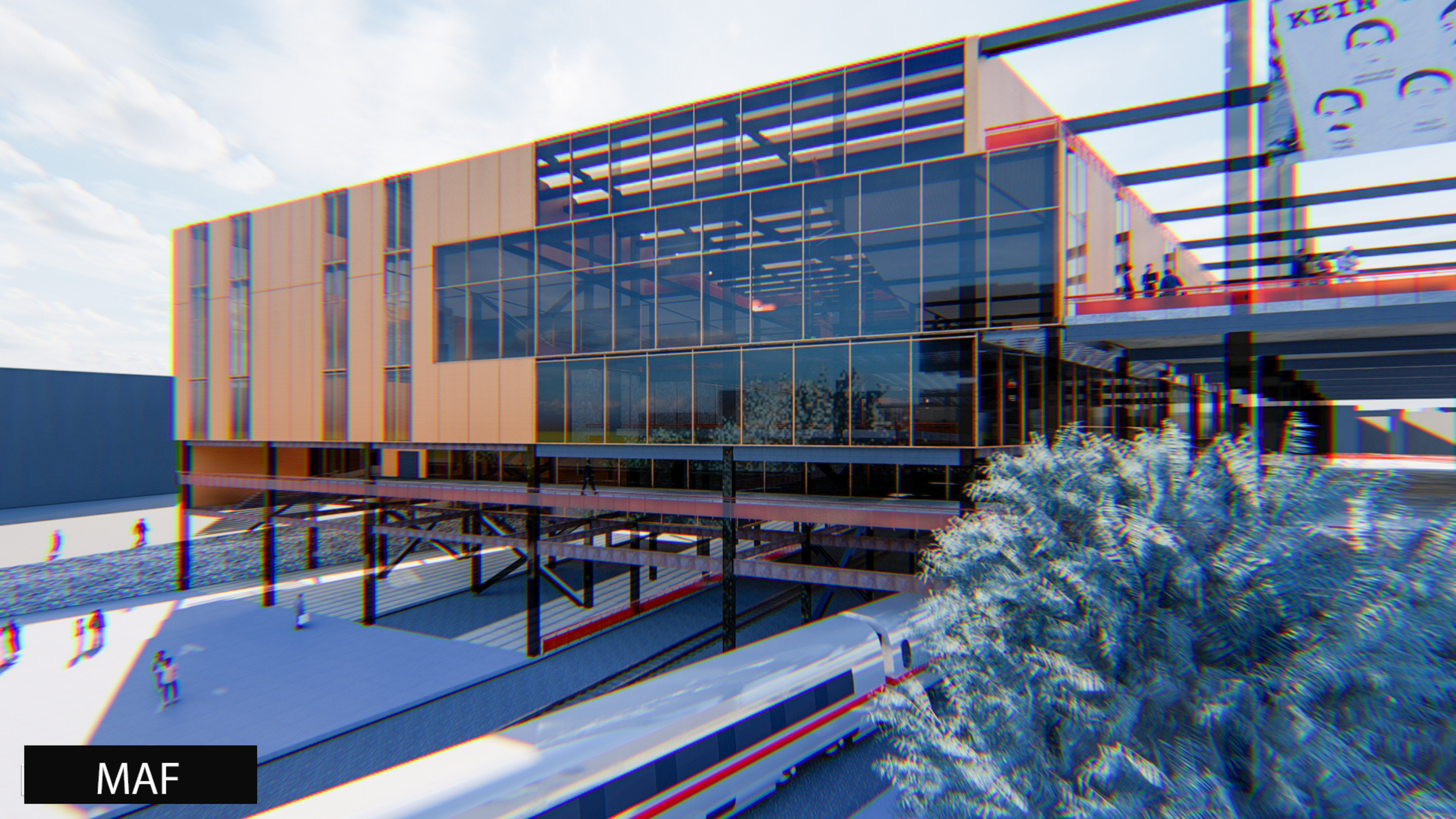
BUILDING - PLAZA

translating CONCEPT to a Climate design





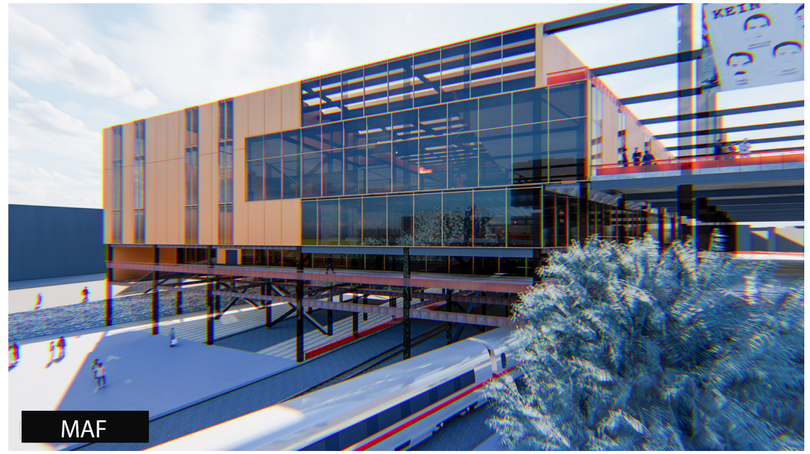
CLIMATE CONCEPT

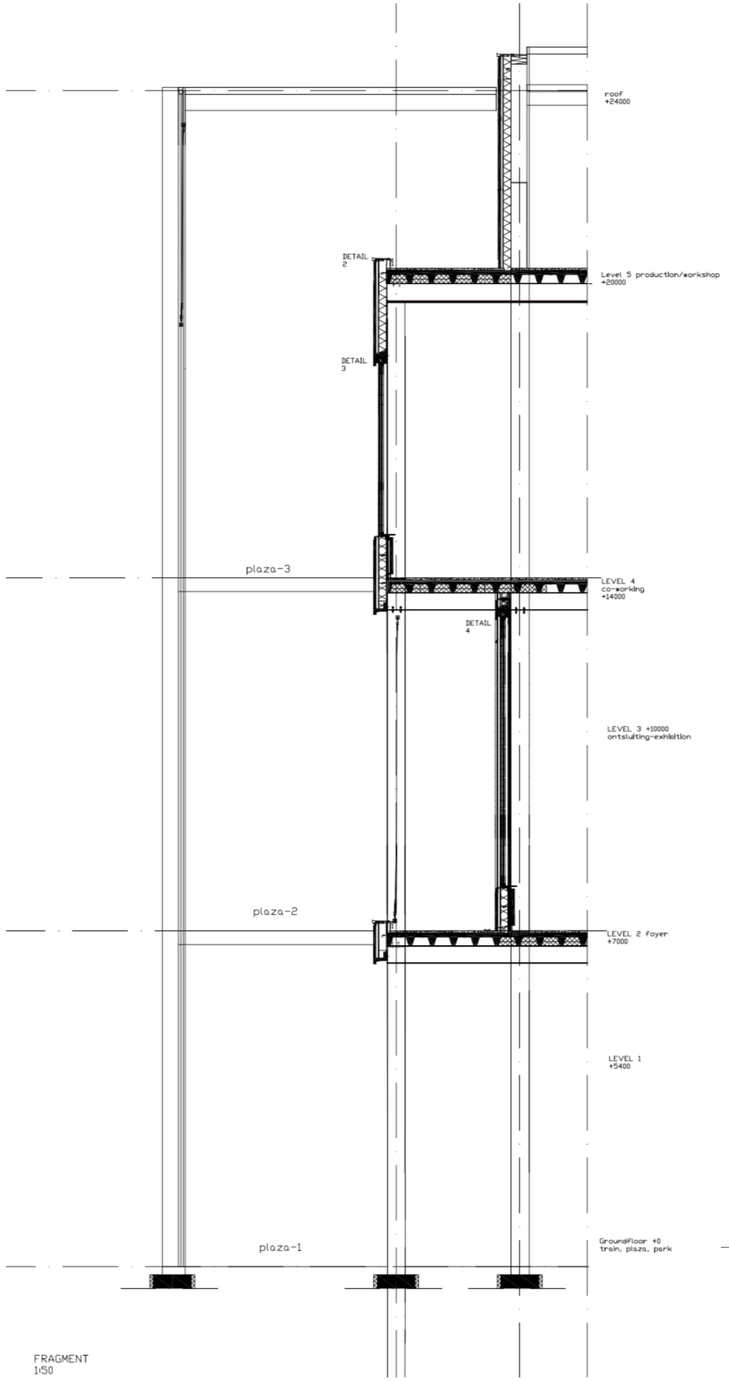

MAF

CLIMATE

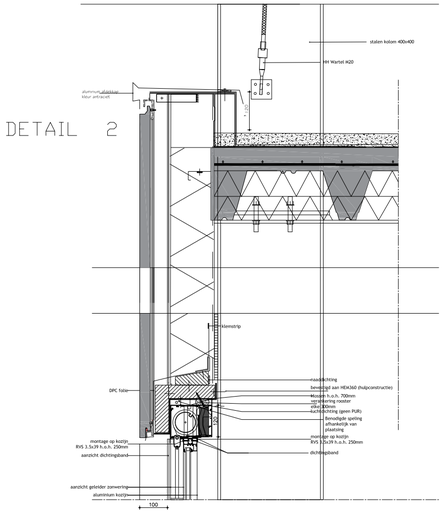
BUILDING - PLAZA

translating CONCEPT to a Climate design

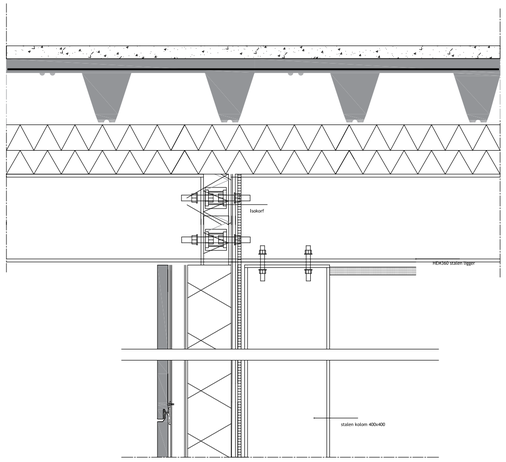




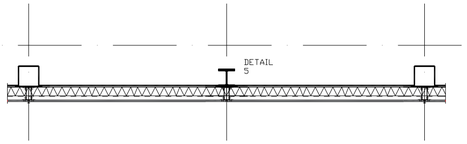
FRAGMENT
1:50



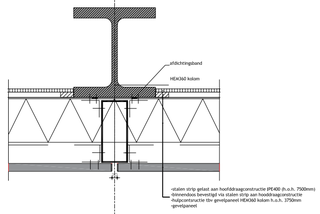
DETAIL 3



DETAIL 4



VH 1:50

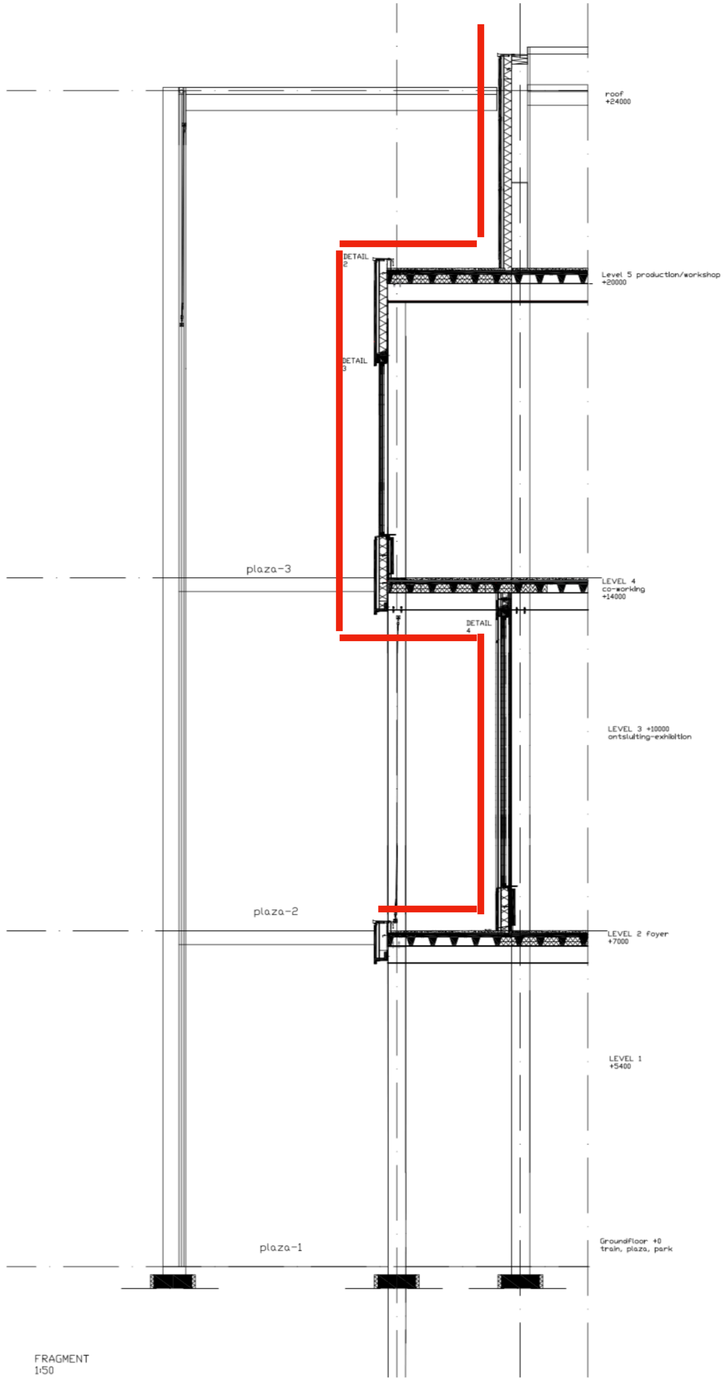


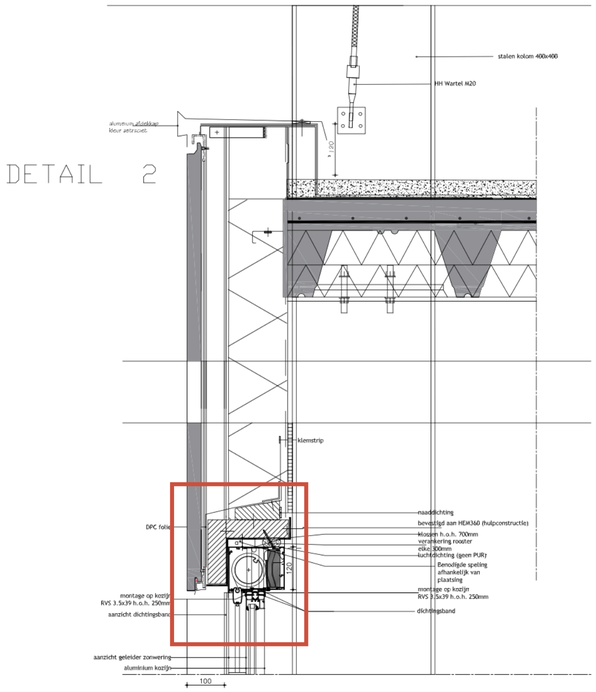
DETAIL 5 1:10

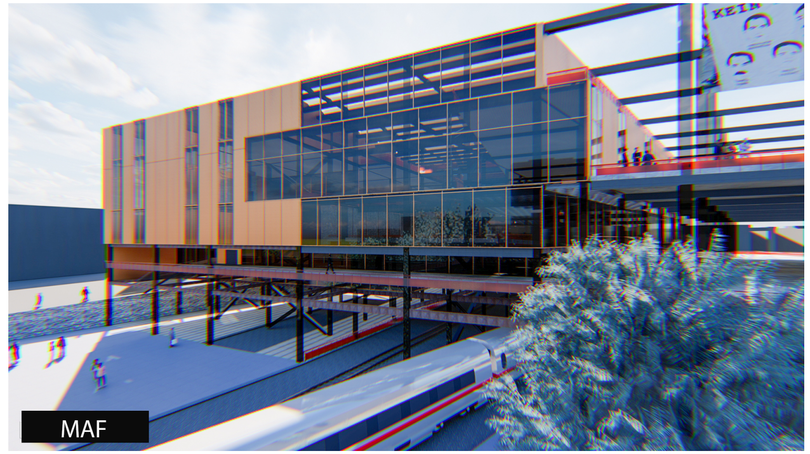
CLIMATE

BUILDING - PLAZA

translating CONCEPT to a Climate design







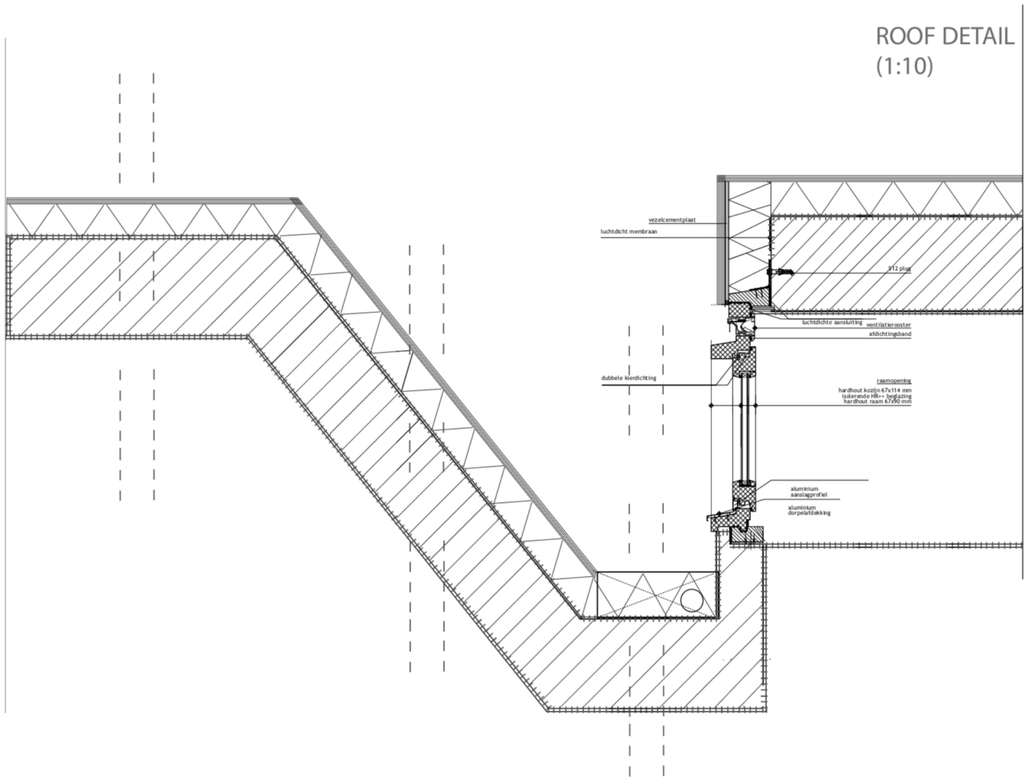

MAF

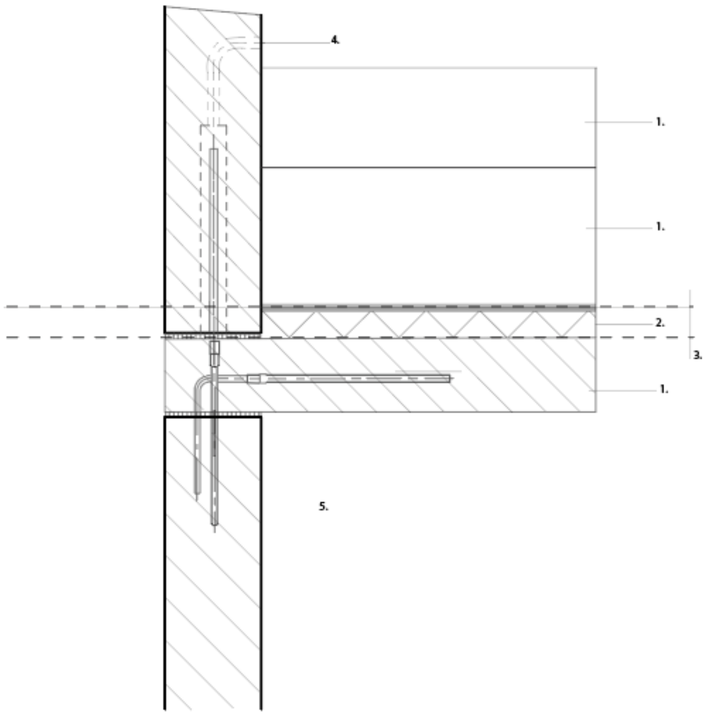
CLIMATE

BUILDING - PLAZA

translating CONCEPT to a Climate design

1. Prefab concrete (roof) construction 1200x2400x350 mm
2. Roof package
   - wooden roof panel 40mm
   - insulation 150 mm
3. Rainwater drainage 80-150 mm
4. Casting hole
5. Prefab concrete
   - panel (interior: 3200x5000x350 mm)
   - Cuttings and gains
   - Insulation
6. Steel anchor
7. Prefab concrete beam, 500x500 mm (including rainwater drainage)





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2. Roof package
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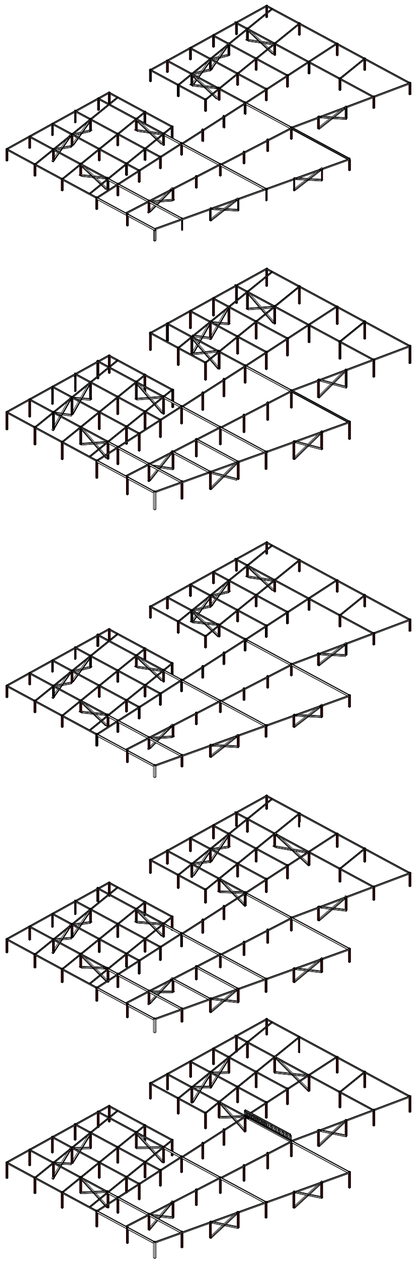
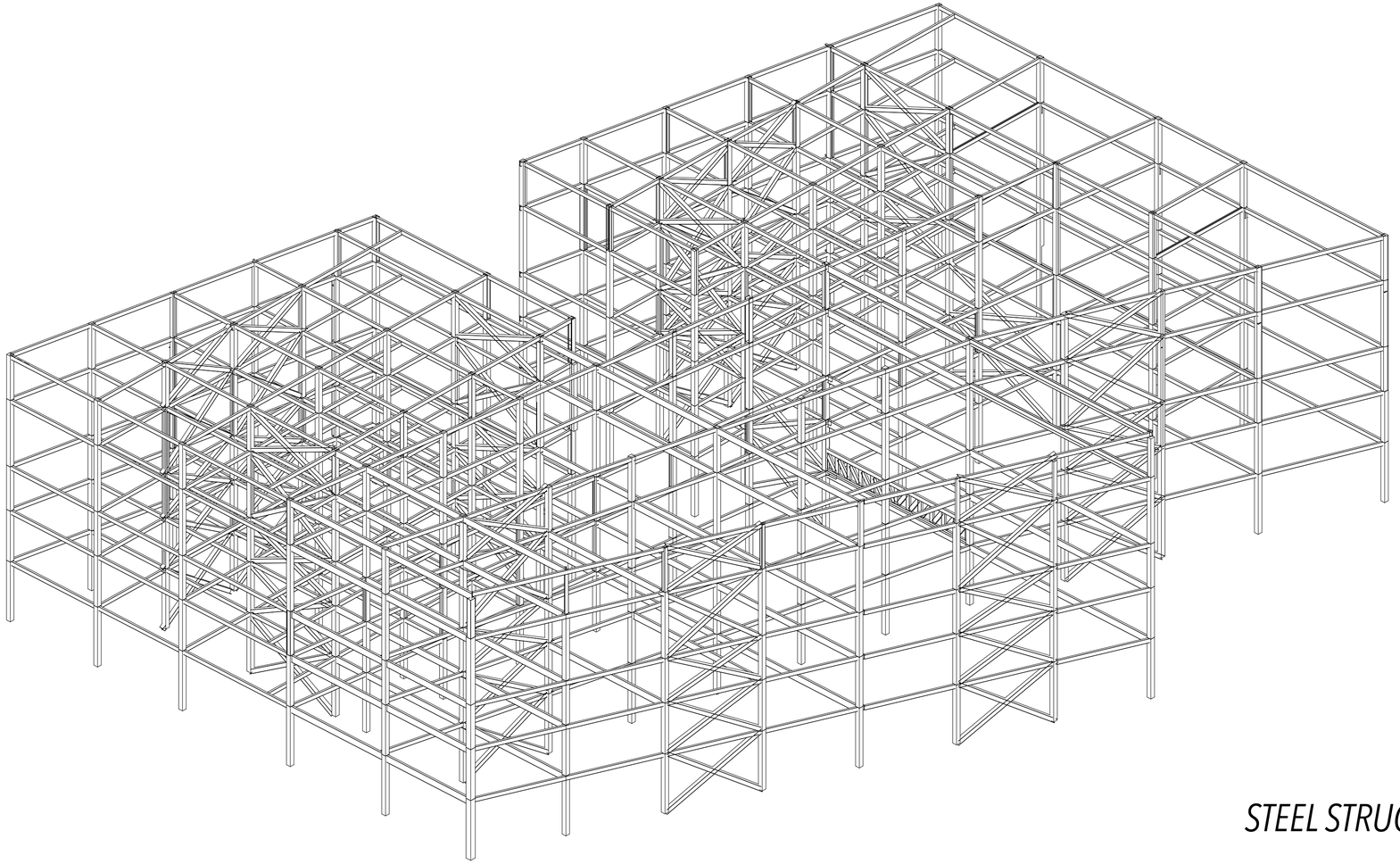
5. Prefab concrete
   - panel (interior: 3200x5000x350 mm)
   - Cuttings and gains
   - Insulation
   - Prefab concrete
   - panel (exterior: 5000x2000x350 mm)
6. Steel anchor
7. Prefab concrete beam, 500x500 mm (including rainwater drainage)



STRUCTURE

BUILDING - PLAZA

translating CONCEPT to a STRUCTURAL design: ***Design Principles***

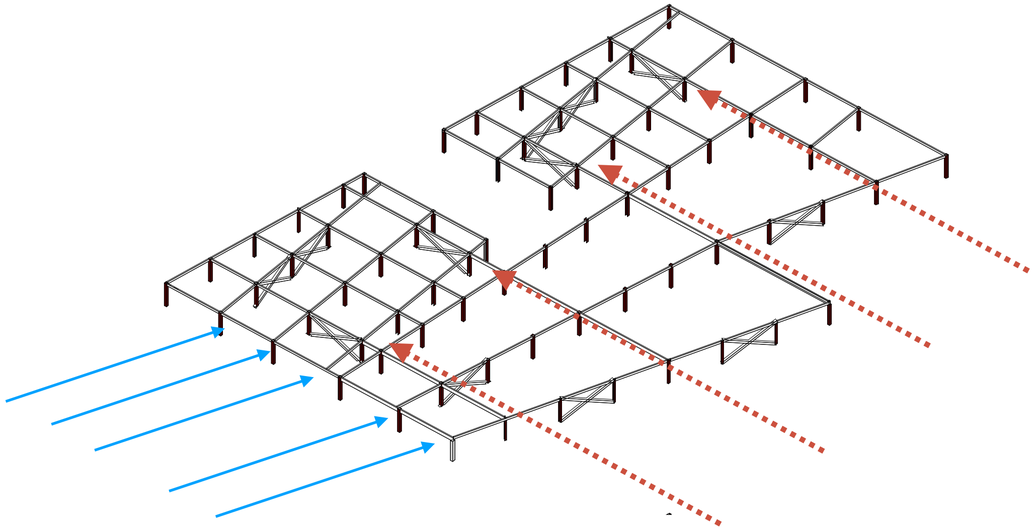


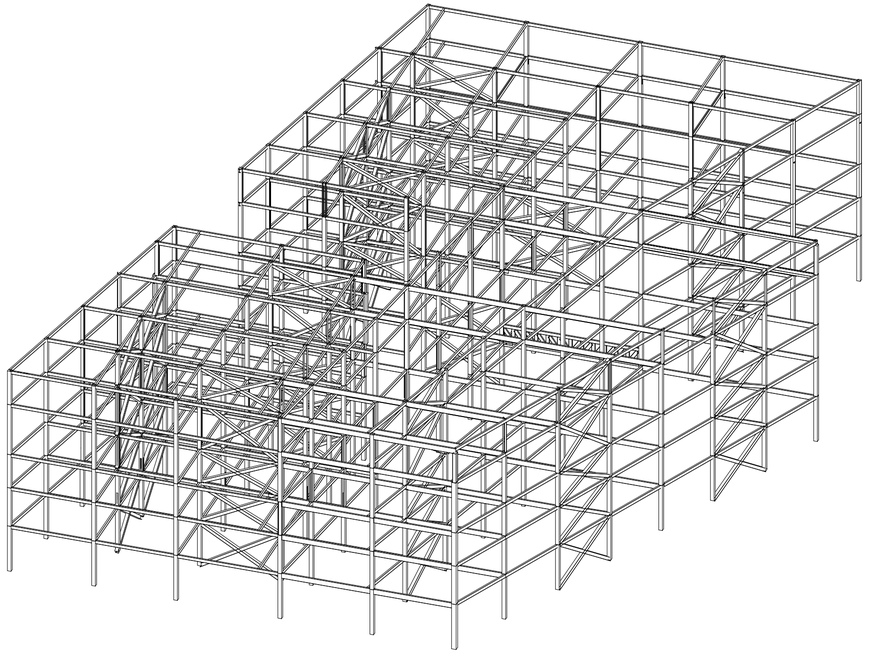
STEEL STRUCTURE

STRUCTURE

BUILDING - PLAZA

translating CONCEPT to a STRUCTURAL design: ***Design Principles***



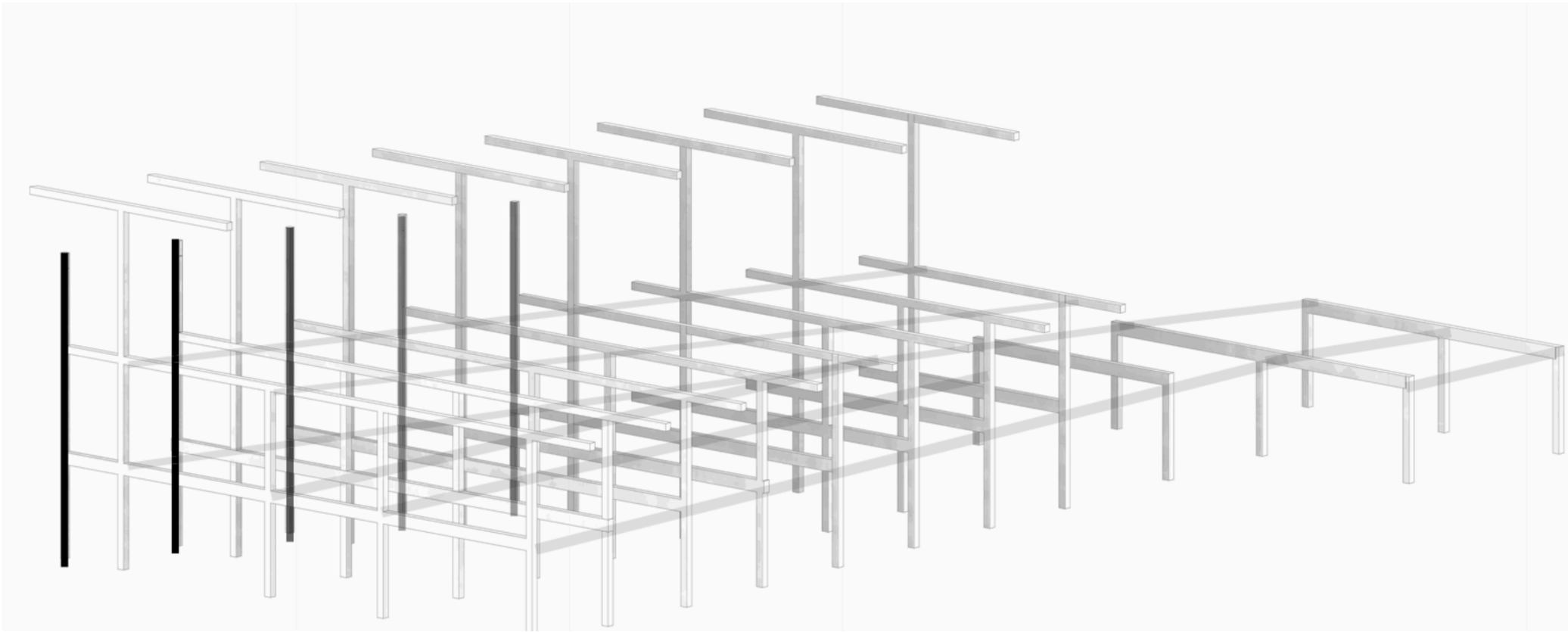


STRUCTURE

BUILDING - PLAZA

translating CONCEPT to a STRUCTURAL design: ***Design Principles***

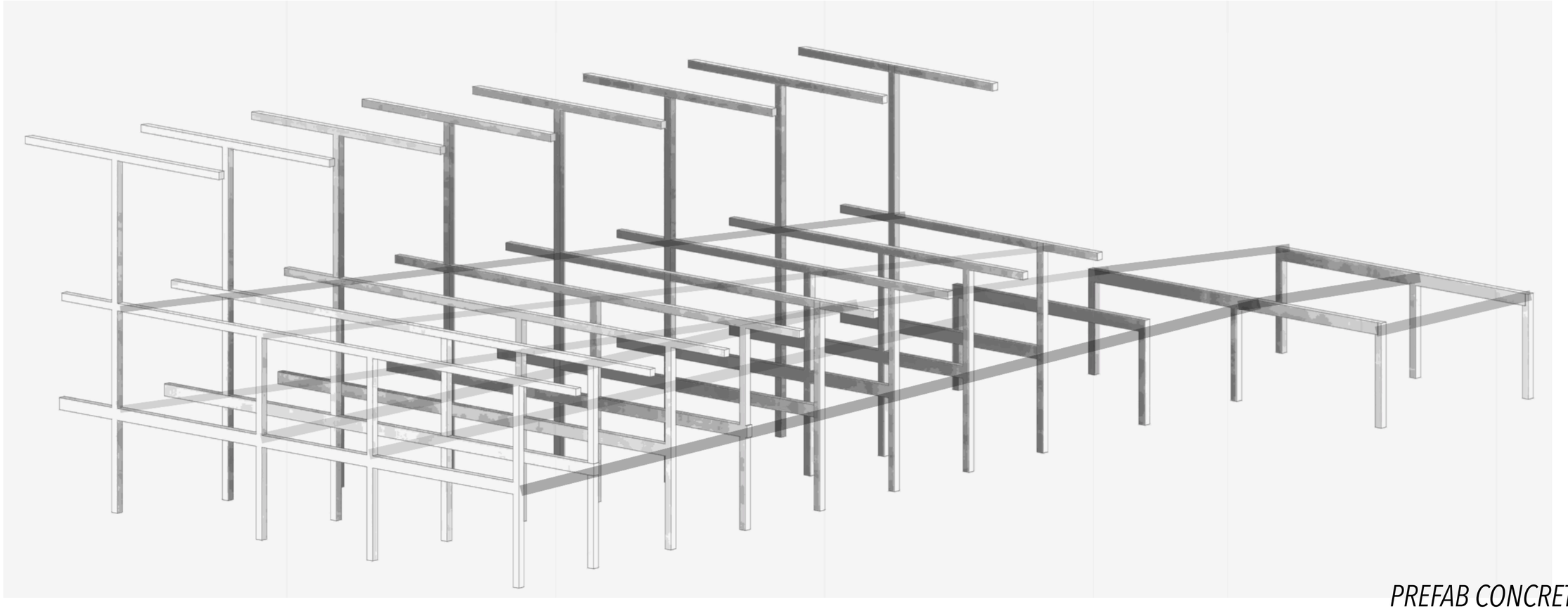
SECUNDAIR CONSTRUCTION FACADE



STRUCTURE

BUILDING - PLAZA

translating CONCEPT to a STRUCTURAL design: ***Design Principles***



PREFAB CONCRETE

PLAZA

MAF

FINAL CONCLUSION





THANK YOU