BINCKHORST SYMPHONY

Thomas van der Schaft - 4277775 Graduation Report Public Building - Music Marvel

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A. Graduation plan

Graduation Plan: All tracks

Submit your Graduation Plan to the Board of Examiners (<u>Examencommissie-BK@tudelft.nl</u>), Mentors and Delegate of the Board of Examiners one week before P2 at the latest.

The graduation plan consists of at least the following data/segments:

Personal information	
Name	Thomas van der Schaft
Student number	4277775

Studio			
Name / Theme	Public Building Graduation Studio / Music Marvel		
Main mentor	Stefan Witteman	Architecture	
Second mentor	Piero Medici	Building Technology	
Argumentation of choice of the studio	Piero Medici Building Technology How people experience, use and form spaces is a really interesting topic. Therefore, I had started the urban architecture in February. I discovered, however, the scale of the city did not meet my interest as much as buildings. In addition to switching from the realm of cities towards buildings, I find the topic of the studio of a building for music very exciting. As a member of the student music association, my passion lies in making music as well. Combining both the fields of architecture, music and the public interaction may lead to a thrilling graduation project.		

Graduation project		
Title of the graduation project	Binckhorst Symphony	
Goal		
Location:	Binckhorst, The Hague	
The posed problem,	The given site for the Music Marvel that has to be designed within the graduation studio is within the Binckhorst area on the edge of The Hague's inner city centre. Within the next decade, the Binckhorst area is about to be transformed from an industrial area into a new urban district that aside of its industrial function will provide commerce, housing and public spaces. Together with the physical transformation of the area, the identity of the area is prone to change. The introduction of cultural programming as well as the strengthening of the existing culture has to be a priority	

	as one of the drivers of culture, has to power to affect the way in which the identity of the district is being shaped. The introduction of a music venue within the area seems to be a golden opportunity to support and shape the cultural shift within the area, as well as a space to express this identity to its surroundings.
research questions and	How can the identity of the Binckhorst area be articulated through the musical and architectural expression of music venue? To reach an answer of this question, the following topics need further research: 1) What is the intented identity of the Binckhorst area? 2) What musical elements can be distinguished within musical composition? 3) How can these musical elements be used within architecture? 4) How can these musical elements be used within the design for the Binckhorst area?
design assignment in which these result.	The final result of the project will be the design of a music venue and its surroundings within the Binckhorst area. Special emphasis will be on the musical expression of the surrounding area through the architecture of the building.

Process

Method description

Site analysis:

To formulate which identity of the Binckhorst area should be expressed through the music venue, additional analysis needs to be done to better understand the identity of the area. Therefore, the site analysis from quarter one. In addition, new developments plans, visions and policies from the municipality of the Hague and project developers will be taken into consideration. From these, the proposed identity of the Binckhorst area will be conceptualised.

Literature review

Through literature review, answers will be found for the following questions as stated before: What elements can be distinguished within a musical composition? In what way do these musical elements relate to elements that can be used within architectural design? These will result in hypothetical design solutions that can be used within the further design project.

Reference projects

In addition to the literature review, reference projects will be taken into consideration. The purpose of this is twofold. Firstly, it can be seen as a test to see whether the conclusions from the literature review can be used in practice. Secondly, the reference projects form an additional library of design solutions that can be used

within the design of the music venue. Emphasis will be on the work of Dudok and Libeskind. Although both were active during different time periods, both combined music and architecture within their designs. The practices of Dudok and Libeskind, however, differ drastically from one another. In addition to these two, design solutions from other projects will be taken into consideration. Together with the results from the literature review, the findings from the reference projects will form a definitive list of solutions that can be used within the further design.

Design research

Using the results from the literature review and reference projects, a design for the music building will be made. Through the design process, the findings of the research will be tested within the context of the Binckhorst area and the parameters that follow from the intended identity.

Planning

Up to P3:

Development of design strategies in combination with research into music and architecuture.

Development technical principles

Up to P4:

Technical elaboration and detailing Finalisation of design

Up to P5: Finalisation for presentation

Literature and general practical preference

Barnstone, D.A., (2015) Willem Martinus Dudok: the lyrical music of architecture. *The Journal of Architecture*, 20(2), 169-192. DOI: 10.1080/13602365.2015.1025812

Beesen, R. J., (2016) "Music and Architecture: An Interpresence. *Masters Theses*,. 314. DOI: 10.7275/7977419

Bergeijk, H. van, (1996). W.M. Dudok; componist van de Architectuur. Wormer: V+K Publishing/Immerc

Capanna, A., (2009). Music and Architecture: A Cross between Inspiration and Method. *Nexus Network Journal*, 11(2), 257-271

Ghaemi, D., (2020). The link between architecture and music. Pantheon//, 25(1), 15–18.

Jencks, C., (2013). Architecture Becomes Music. Retrieved from: https://www.architectural-

review.com/essays/architecture-becomes-music on 04-01-2022

Libeskind, D. (1991) Daniel Libeskind: Countersign. London: Academy Editions

Lundy, M., Sutton, D., Ashton, A., Martineau, J., Martineau, J. (2010) Quadrivium. Kerkdriel: Librero

P., Petrovski, S., Chatzopoulou, N., Mania, K. (2016). Reciprocal transformations between music and architecture as a real-time supporting mechanism in urban design. *International Journal of Architectural Computing*, 14(4), 1-9.

Trickett, T., (2018). Architecture as Music: A personal journey through time and space. 382-390. DOI: 10.14236/ewic/EVA2018.71.

Walden, D., (2014). Frozen Music: Music and Architecture in Vitruvius' De Architectura. *Greek and Roman Musical Studies*. 2. 124-145. DOI: 10.1163/22129758-12341255.

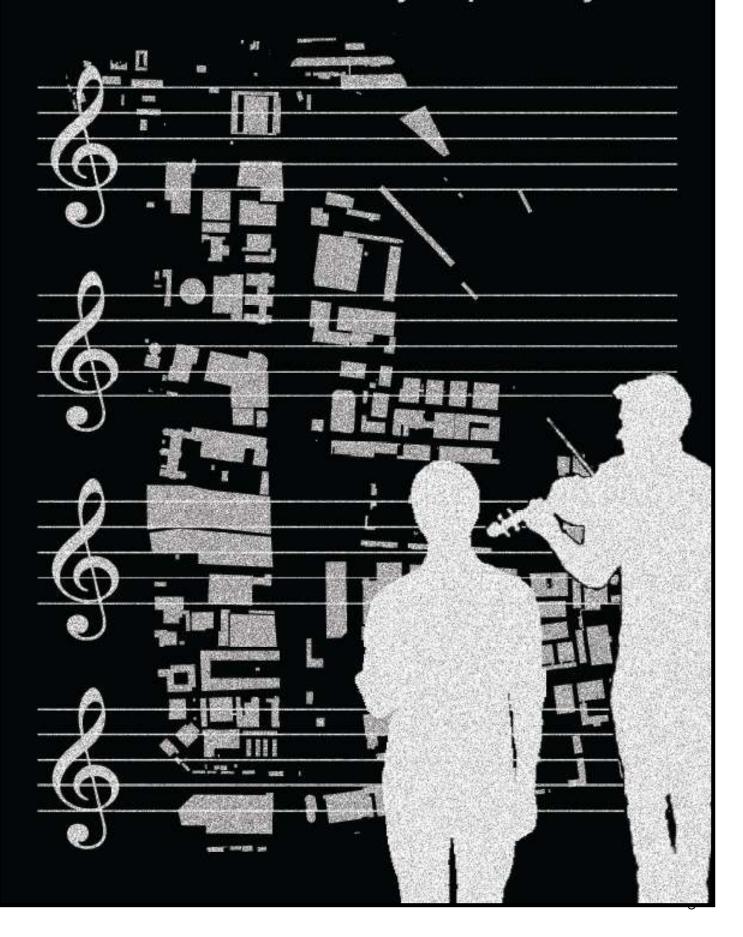
Waterhouse, P., (1921). Music and Architecture. Music and Letters II(4):323-31.

Reflection

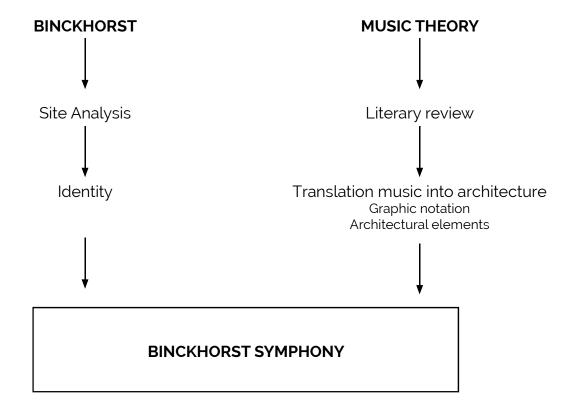
- 1. The design of a music venue closely fits the studio theme as a form of public building. In addition, the project seeks the connection to the city and makes the city's identity explicit through the design of design of the building.
- 2. Within the larger discipline of architecture, this project aims to further understanding of the relationship between music and architecture. It is an addition to the broader research field of architecture as a whole, by looking for methods outside of common architectural practices. Through the connection of architecture to music, a new, interdisciplinary language can be created that can be used to find new architectural forms.

B1.Design manifesto

Binckhorst Symphony



B2. Theory research



Abstract

Although both architecture and music can be seen as separate forms of art, similarities can be found between them. Music can be seen as the organisation of sounds. Architecture on the other hand mostly deals with the organisation of spaces. Both, however, trigger a deeper understanding and emotional sense within people.

Music can express intangible elements within the area through sound, opposed to more commonly used visual media to which architecture is more related. Architecture, however, is mostly seen as a tactile medium and compromises the tangible elements within built environment. When designing either music or architecture, the results are on the one hand from the illogical chains that are made with liberal associations of the mind, and on the other hand from logic of the deformation of typological order, a deconstruction or a composed theme. A consequence of this is an extreme abstraction and the creation of a concept. But it is what architecture shares with all other forms of artistic expression. (Capanna, 2009)

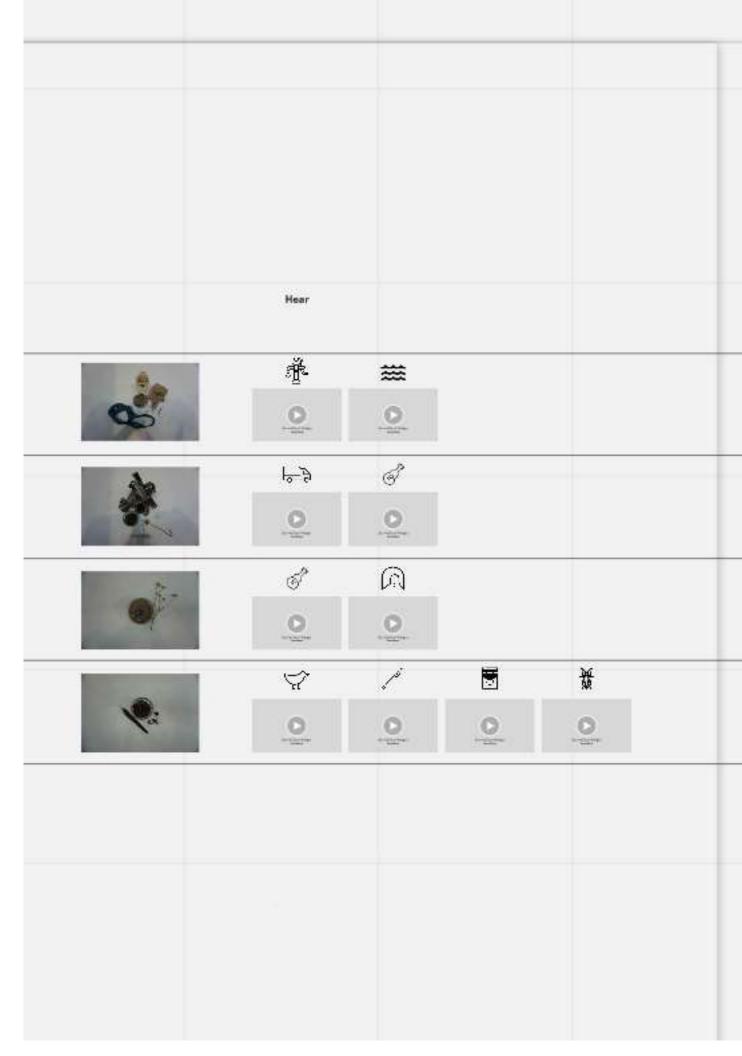
The given site for the Music Marvel is within the Binckhorst area on the edge of The Hague's inner city centre. Within the next decade, the Binckhorst area is about to be transformed from an industrial area into a new urban district that aside of its industrial function will provide commerce, housing and public spaces. Together with the physical transformation of the area, a cultural shift will occur.

Culture is a vital part within the urban context. It binds people and places together, gives meaning to lives and sites and it has to play a central role within sustainable development (Duxbury, e.a., 2016). Therefore, the introduction of cultural programming as well as the strengthening of the existing culture has to be a priority within the redevelopment of the Binckhorst area. Music, as one of the drivers of culture, has to power to affect the way in which the identity of the district is being shaped. The introduction of a music venue within the area seems to be a golden opportunity to support and shape the cultural shift within the area, as well as a space to express this identity to its surroundings.

The performed music, however, is only heard within the building at specific times. The building itself, however, will remain and has the possibility to express the musical identity within the Binckhorst all the time. The main question of the research can be therefore stated as the following: "Considering the relationship between music and architecture and using principles from both disciplines, how can the Music Marvel become a driver of the identity within the Binckhorst area?"

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SAMPLE COLLECTION







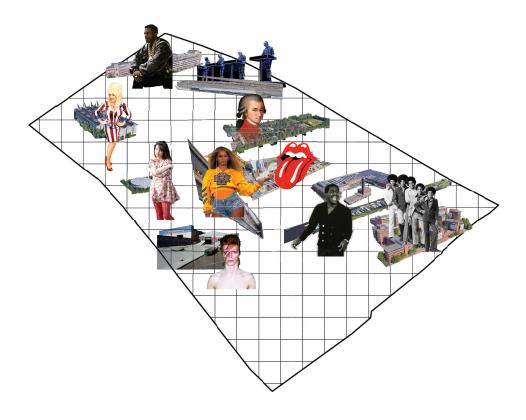


		5
Feel	Think	Do
Lonely Empty Desolate Loud Energetic	Recreation Work Industry Tourism Emptiness	Walk Swim Observe Liston Sme I Drink
Messy Complicated Noisy Desolate	Transformation Trash Large Scale Infrastructure Oynamic Machine	Listen Observe Plan Orink Smoke
Loud Strange Hasay Barbaric Dinty	Opportunity Gratesque Connection	Observe Chat Drive Bike Run
Calm Overgrawn Rebellious Stubborn Savage	Insufficient Quiet Animals	Cycle Explore Yawn Sit Smell Meditate

Scenario	
l like I wonder	I wish What if?
Port related heritage is the water a connection connection to water or barrier?	Better connection across the water The entire waterside becomes public space?
Components of a machine How industrial heritage Small lives of the vacant can be re-used?	Different activities Industrial facilities can (industry, commerce, also be used as an event residential) can coexist venue?
Getting into the city If I want to take the center as fast as possible bicycle or the car	The neighborhood was The area was more not as car oriented as it is pedestrian oriented right now
That nature is fighting against the adding plants will help industrialization of the soften the industrial noise Binckhorst.	For more public space to Nature was also used as a sound insulator?

WHAT IF?

THE BINCKHORST WAS A MUSICAL FESTIVAL



NOTATIONAL SYSTEM

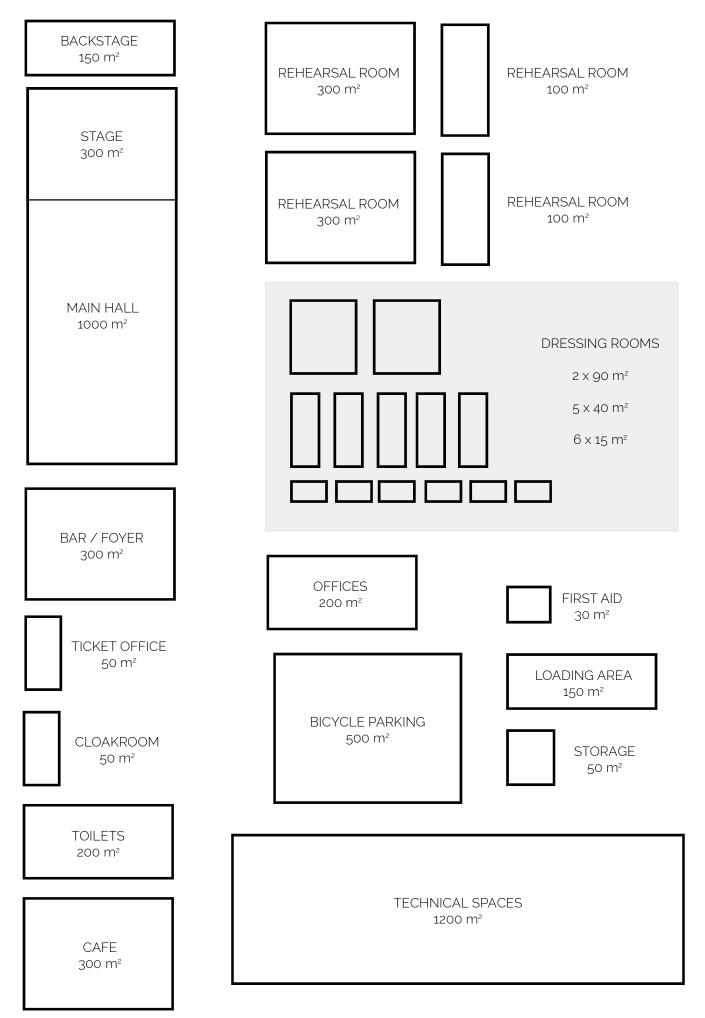
INDEX MODELS



SOUND SAMPLE MONTAGE



C. Design Brief



Building Programme & Area

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v	_		•	•

Audience (seated) 1000
GFA 12000 m2

Concert Spaces

Main Hall1000 m2Stage300 m2Back stage150 m2Stage director's roomX

Audience access

Bar 300 m2
Entrance / Foyers x
Ticket office x
Wardrobe 50 m2
Toilets 8m + 12f

Dedicated access

Artist entrance x
Artist foyer x
Practice rooms

Tractice rooms

- Large 2 x 300 m2 - Small 2 x 100 m2

Dressing Rooms

 Small
 1p
 6x 15 m2

 Medium
 6-8p
 5x 40 m2

 Large
 25p
 2x 90 m2

 Office space
 200 m2

 First aid room
 30 m2

Support

Loading area 1 truck
Bicycle parking 400b 500 m2
Storage 50 m2
Technical spaces 10% of total

Additional

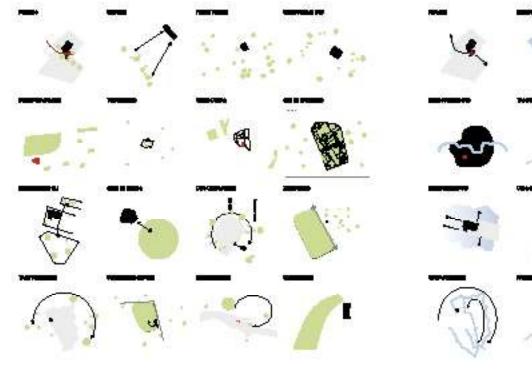
Cafe 300 m2

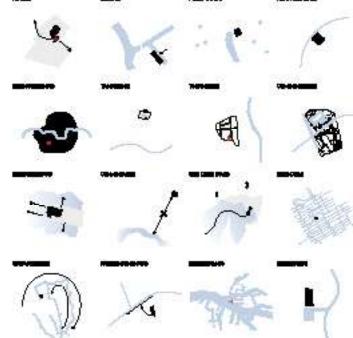
D. Research journal

D1. Research book

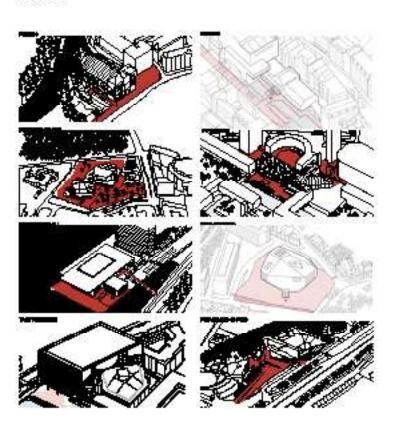
Case studies

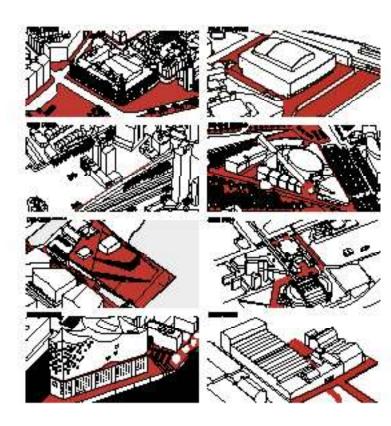
Green Water





Form





City

Green

Most music venues are connected to green and / or a qualitative public space. If there is enough green space in the close proximity and if that green space is of high quality, most venues have quite a clear relation with it (such as walkways and sightlines through the Parc de la Villette with the Cité de la Musique).

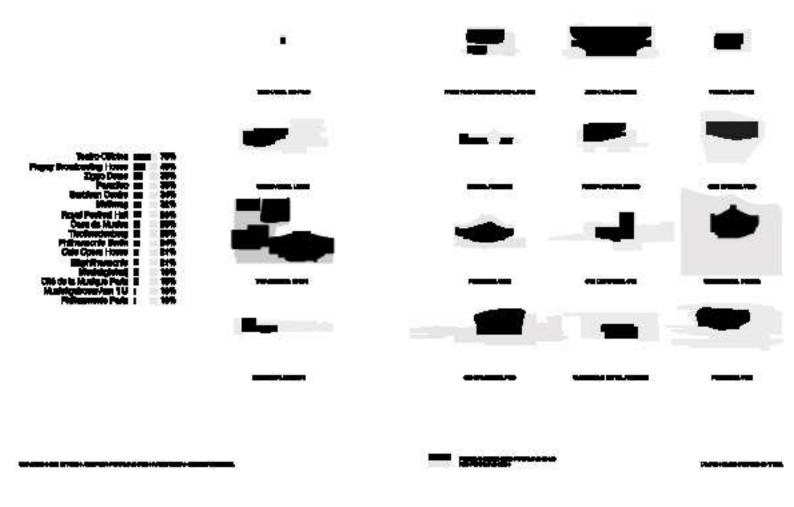
Water

Buildings that are located next to larger bodies of water seem to be more monumental in architecture than venues which are not. This is especially visible in the Oslo Opera House, the Elbphilharmonie and Muziekgebouw aan 't IJ.

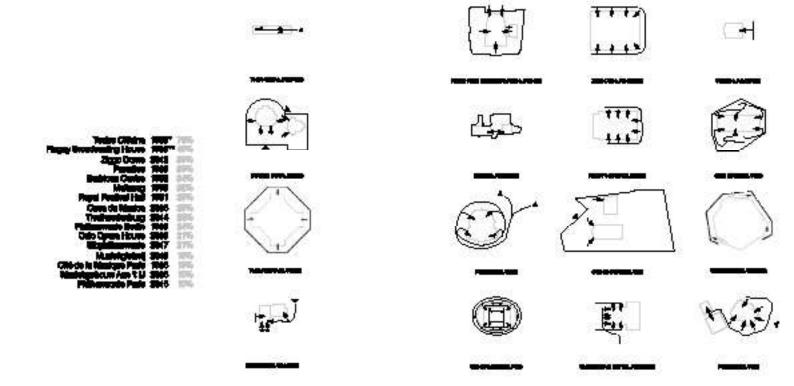
Form

The public spaces in front of the music venues seem to be of great importance, both for crowd control (for example in the case of the Ziggo Dome) and for creating an icon (referring to the Casa da Musica). Because of the importance, most public spaces are surrounding the entire building. The Oslo Opera House and the Barbican take this one step further by having the possibility to walk on top of the buildings. Muziekgebouw aan 't IJ creates a public route through the building.

Music Performances



Music Circulation



Connection

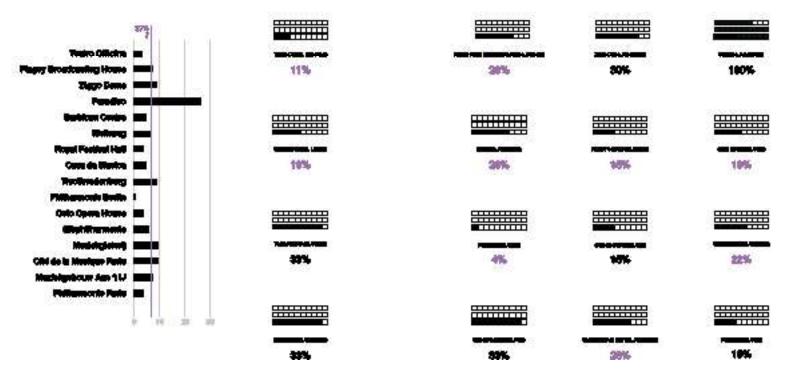
Situation of the music hall

Most of the symphonic halls have the main hall located in the core of the building. This creates an acoustic bufferzone to insulate the sound. In addition, it leaves the possibility to create transparent facades within interfering with the main hall.

Circulation

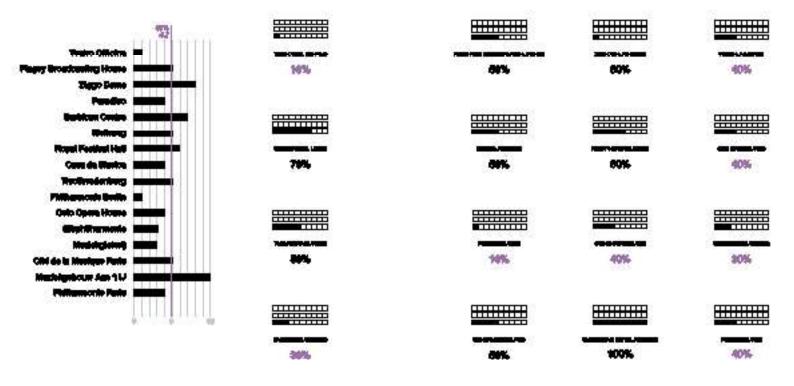
Circulation mostly takes place around the hall, providing access from multiple sides. While some music venues provide a direct routing from the outside towards the hall, others allow a more scenic route through the buildling.

Diversity by Genre



THE PERSON NAMED OF THE PERSON NAMED IN

Diversity by Functions



Culture

Diversity by genre

Most venues offer a selection of musical genres. While some are specialised in few musical genres - mostly the symphonic halls - others offer a broader range.

Diversity by funcion

While built to host concerts, many halls are also used for other events, like theatrical shows, lectures, parties and more. Especially Muziekgebouw aan 't IJ has been built as flexible as possible in order to make it suited for a very diverse selection of events.

Site

Binckhorst & the role of water

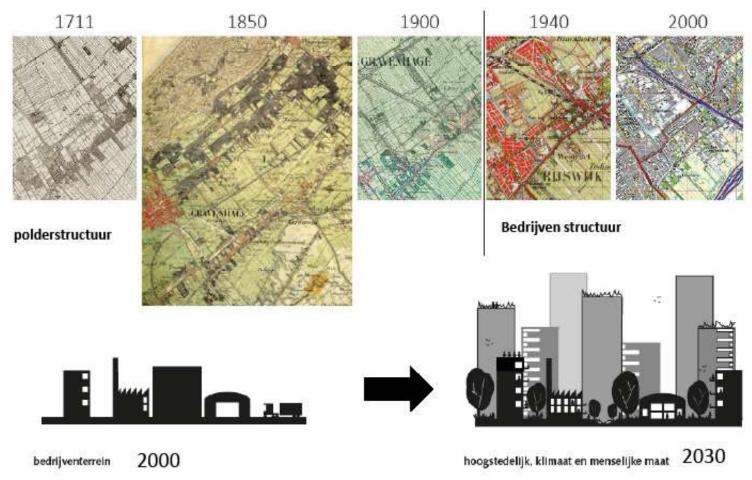




2 september 2021 Binckhorst Environmental

Transformation of the Binckhorst

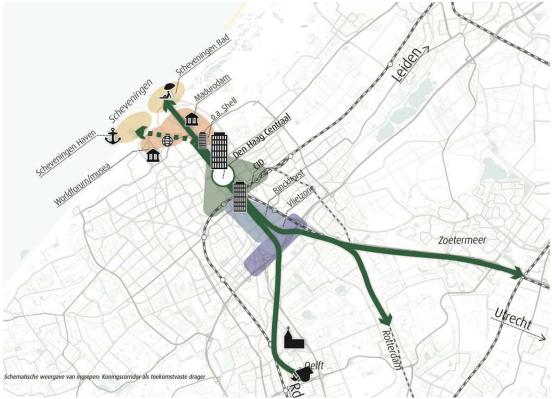
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Binddorst Environmental Plan

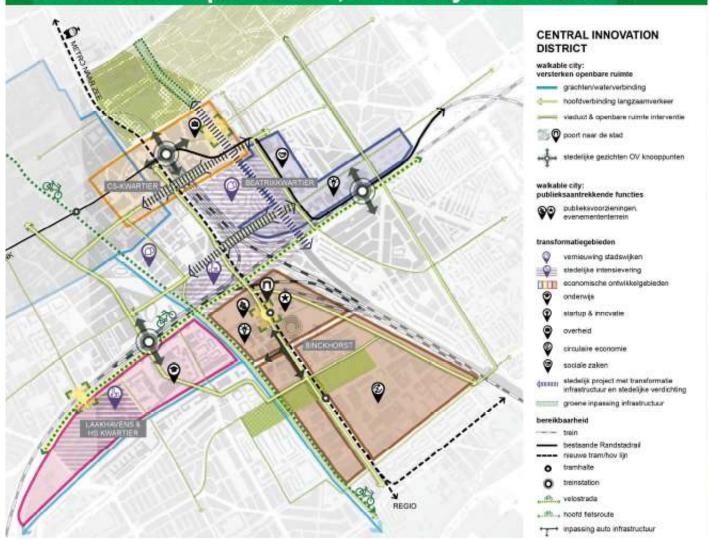
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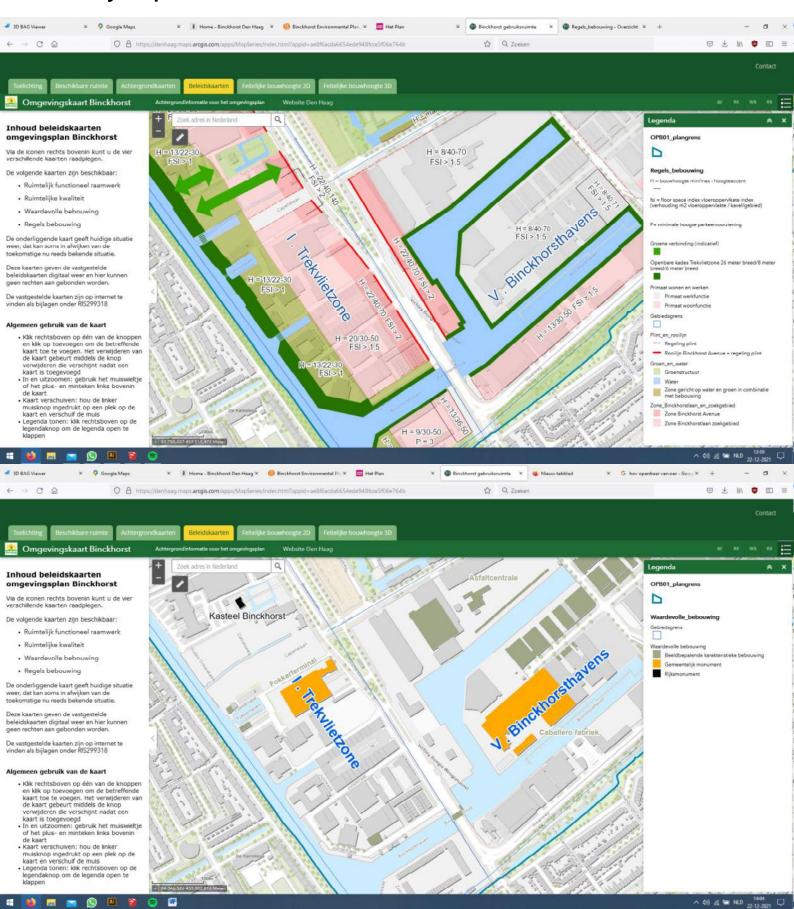


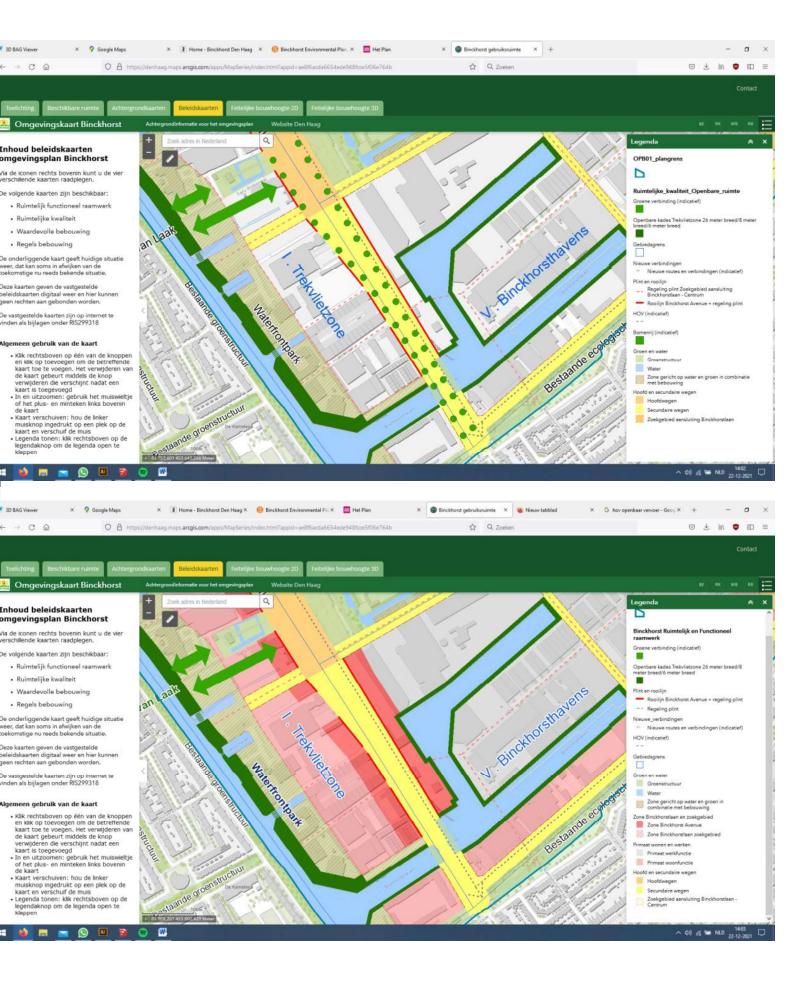
Proposal new public transport corridor along Binckhorst

Binckhorst as part of CID, inner city densification

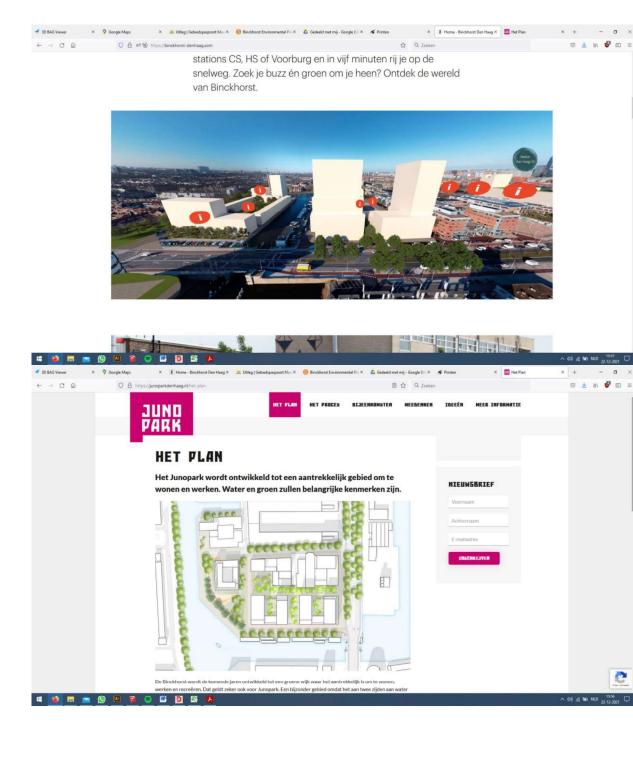


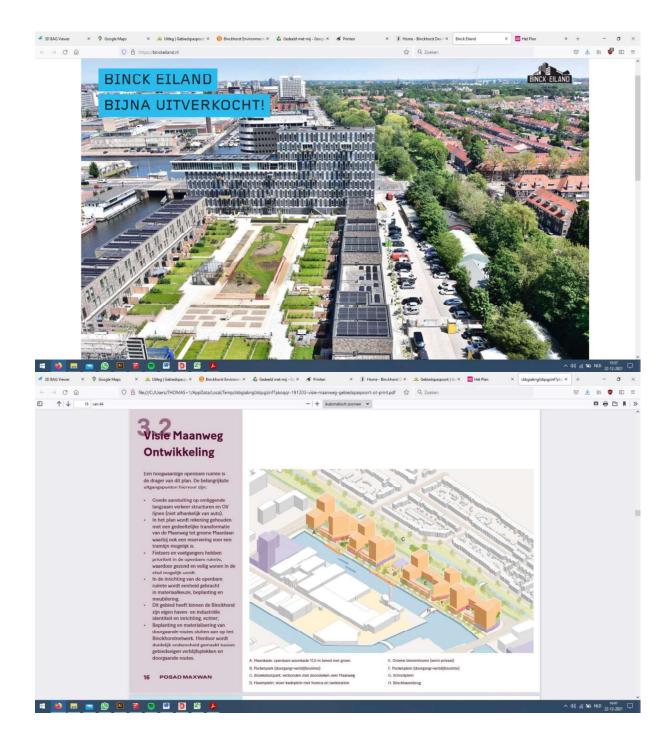
Policy Maps





Future developments



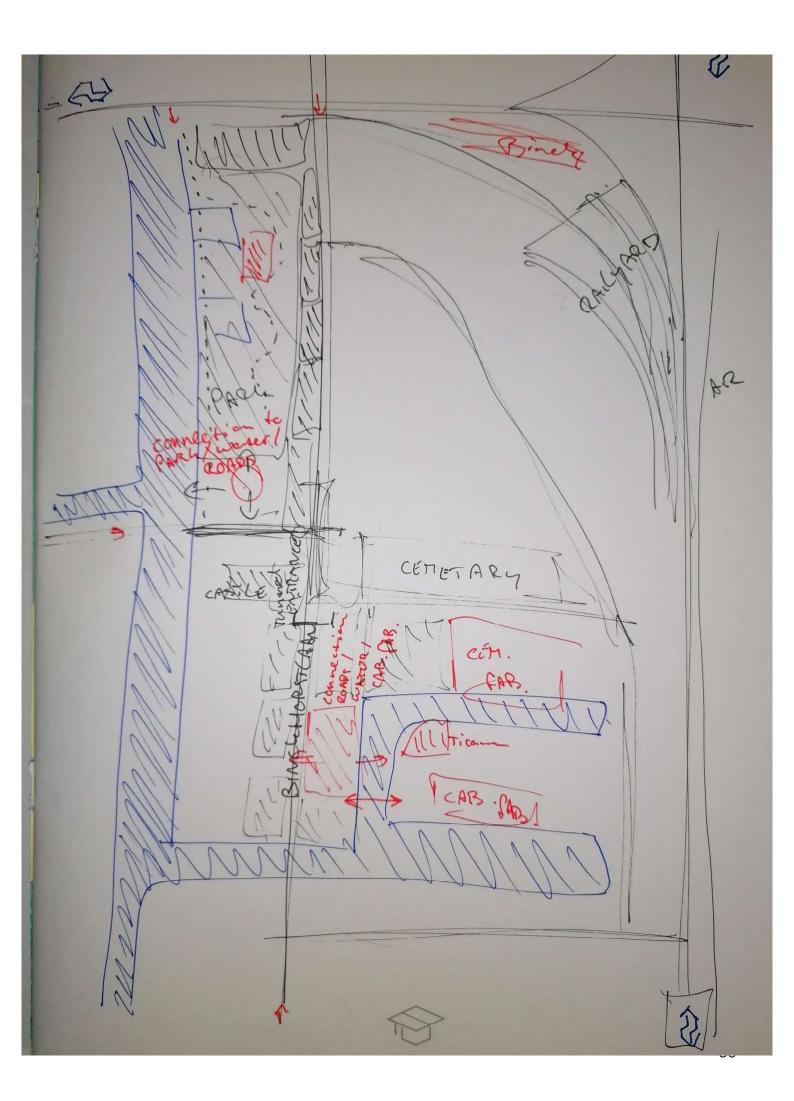


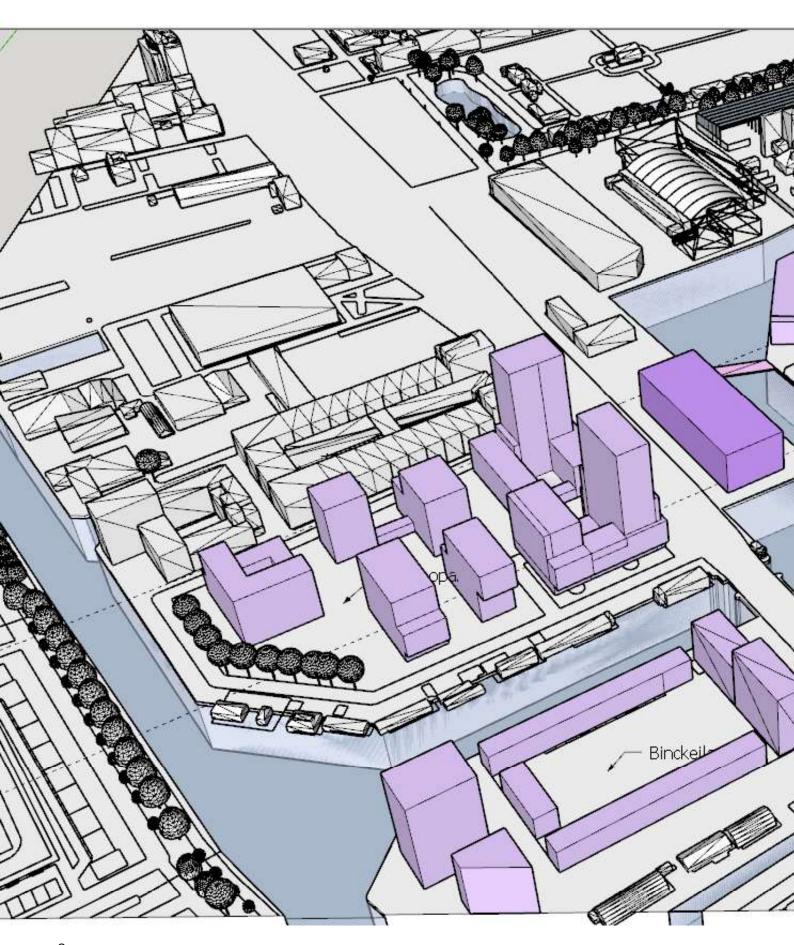


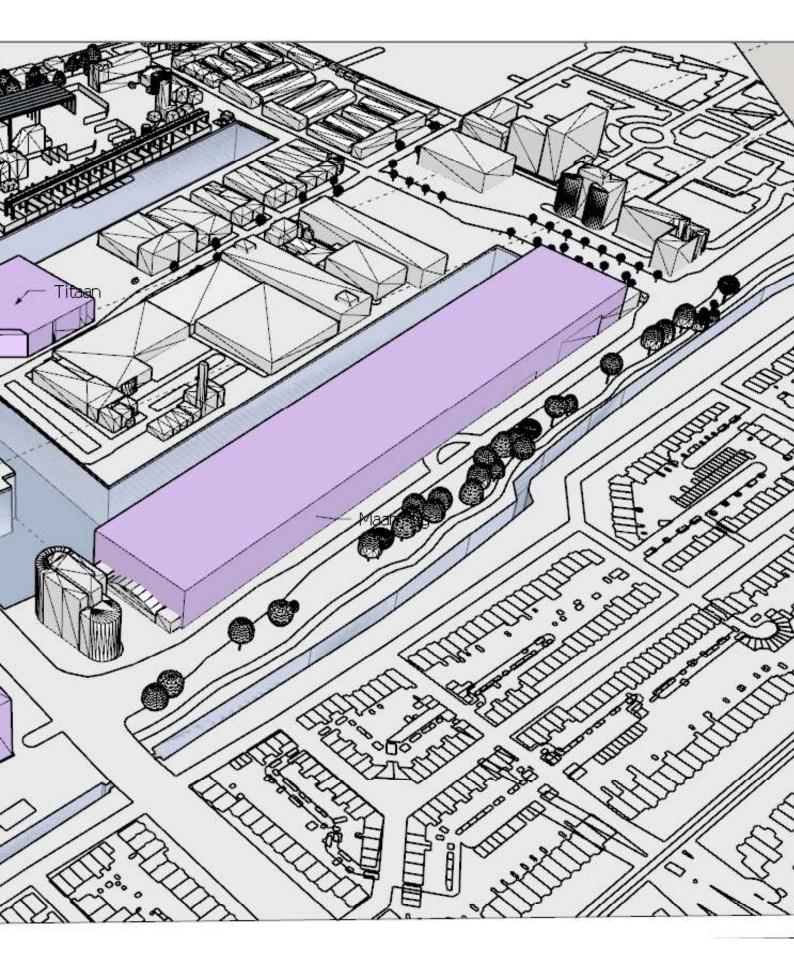








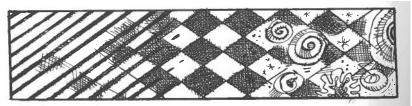




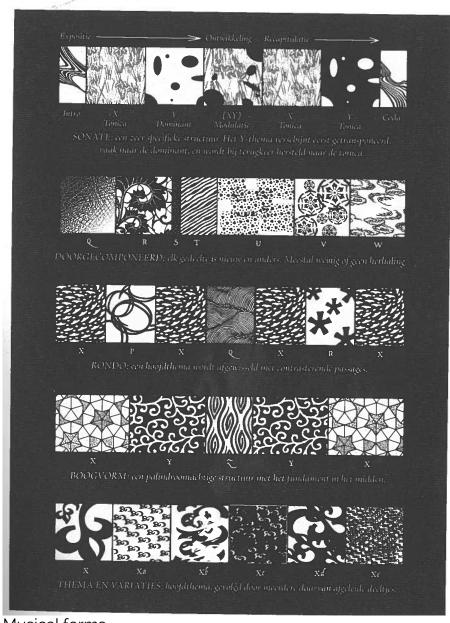
Architecture & music

Musical tempos





Musical development



Musical forms

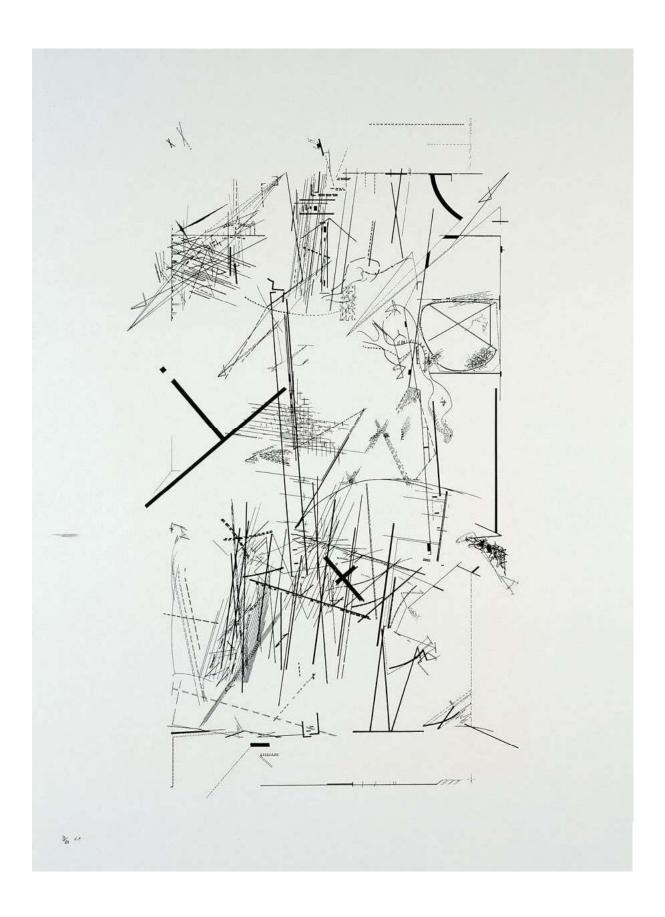
From: Lundy ea (2010). Quadrivium

Symphony Composition

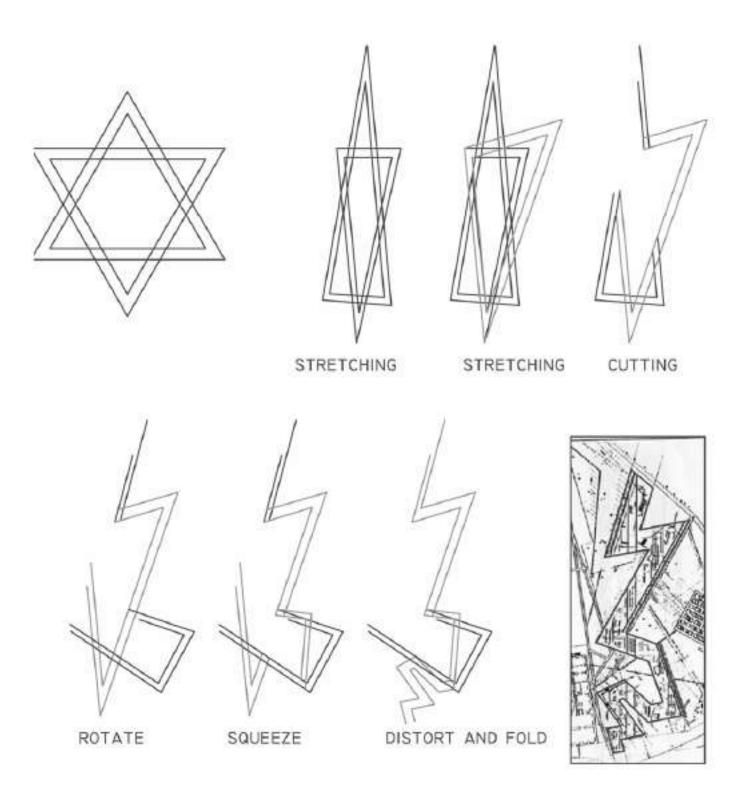
4 movements of a symphony

- Allegro Exiting & Lively
 Getting attention
 Mostly in sonate form:
 Exposition > Development > Recapitulation
 A > B > AB > A > B" > A
 A strong, B lyrical
- Largo Slow & Lyrical
 Point of relaxation after energetic opening
 Songlike and relaxed
 No fixed form
- 3. Light spirited & DancyEither:Minuet (dance) > Trio > Minuet, orScherzo (joke / lighthearted tune) > Trio > Scherzo
- 4. Finale, rollicking
 Focussed on having a good time
 Mostly in sonate form or rondo form:
 A > B > A > C > A > ...

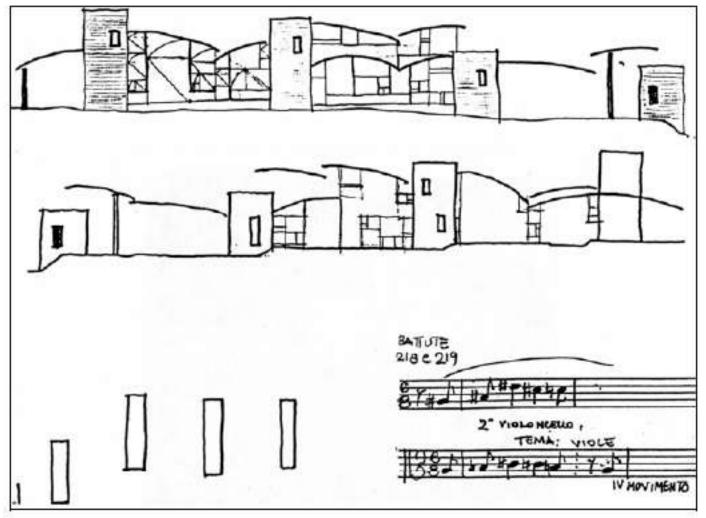
https://www.dummies.com/article/academics-the-arts/music/general-music/classical-music-the-movements-of-a-symphony-141999



Libeskind - Design Jewish Museum



From: Capanna (2009). Music and Architecture; a cross between inspiration and method



Comparison of Bartòk's specular composition and Holl's Stretto House: Parts with strong percussion are followed by lyrical string sections.

From: Capanna (2009). Music and Architecture; a cross between inspiration and method

MUSIC // RHYTH



Dudok, Stadsschouwburg Utrecht, NL (1940)

M&TEMPO



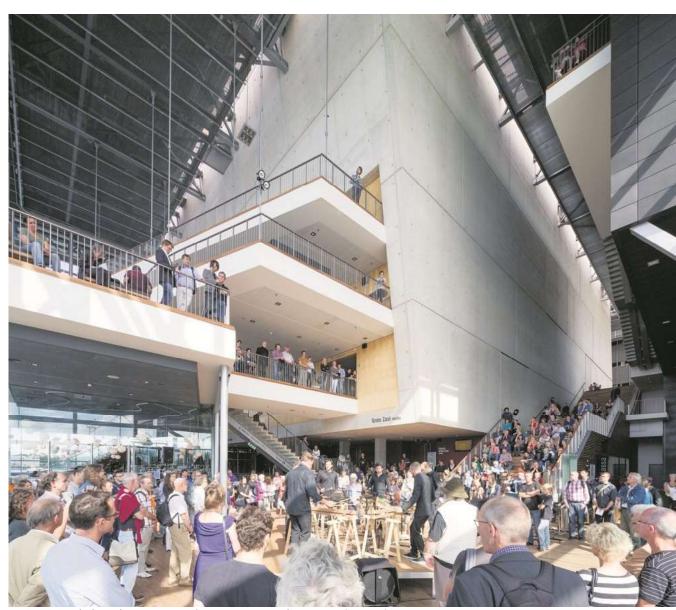
Xenakis, Convent of Sainte Marie de la Tourette, France (1960)

MUSIC // KEY & I



Coop Himmelb(l)au, Dalian Conference Centre, China (2012)

HARMONY



3XN, Muziekgebouw aan 't IJ, Amsterdam NL (2005)

MUSIC // INSTR



AHH, Tivoli Vredenburg, Utrecht NL (2014)

UMENTATION

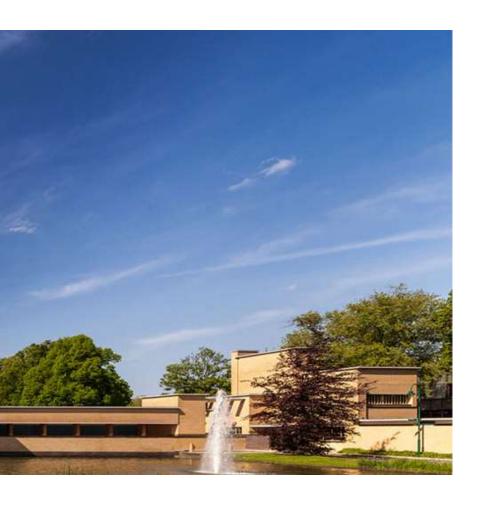


MUSIC // MELOD



Dudok, Hilversum Town Hall, NL (1931)

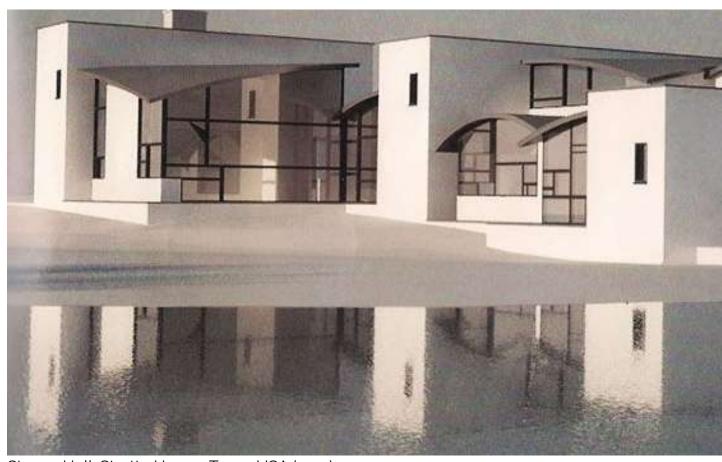






Conference Centre, China (2012) 🏪

MUSIC // FORM



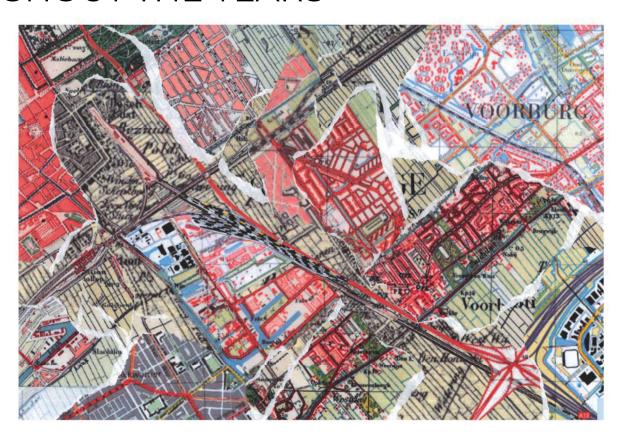
Steven Holl, Stretto House, Texas USA (1991)



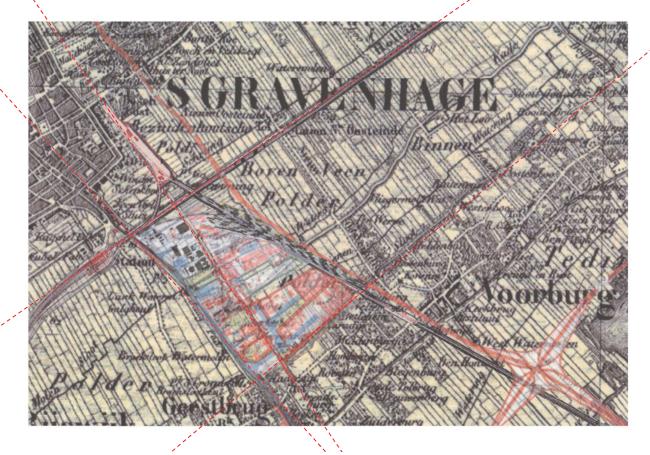
D2. Design journal

Deliniation research

THROUGHOUT THE YEARS



SUPERIMPOSING GRID





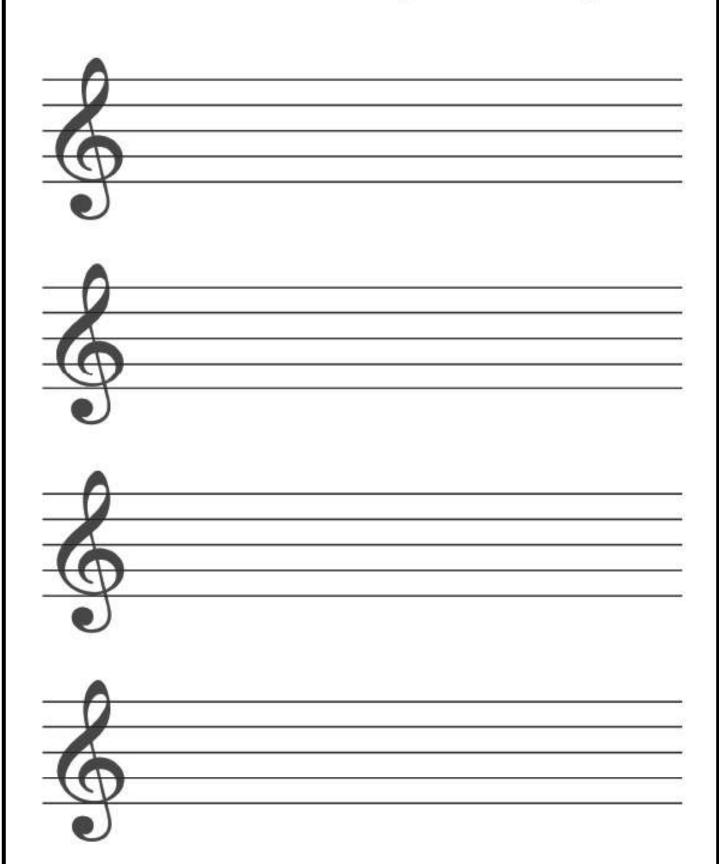
The manifesto is a visual interpretation of three elements which create the Binckhorst Symphony. One of the statements in the manifest is the base for the architecture and the music that will be experienced within the music venue that will be designed. It emphasises the correlation between the disciplines of music and architecture, how they can be read and composed simularly, and the interaction between the built environment and its users.

- 1. The disciplines of architecture and music are comparable. Both can evoke a deeper understanding when experienced.
- 2. Music can be used as a means in architecture to express certain untangible ideas.
- 3. The role of the visitor is twofold. Not only is the person a passive spectator, but also forms an integral part within the broader composition of the built environment.

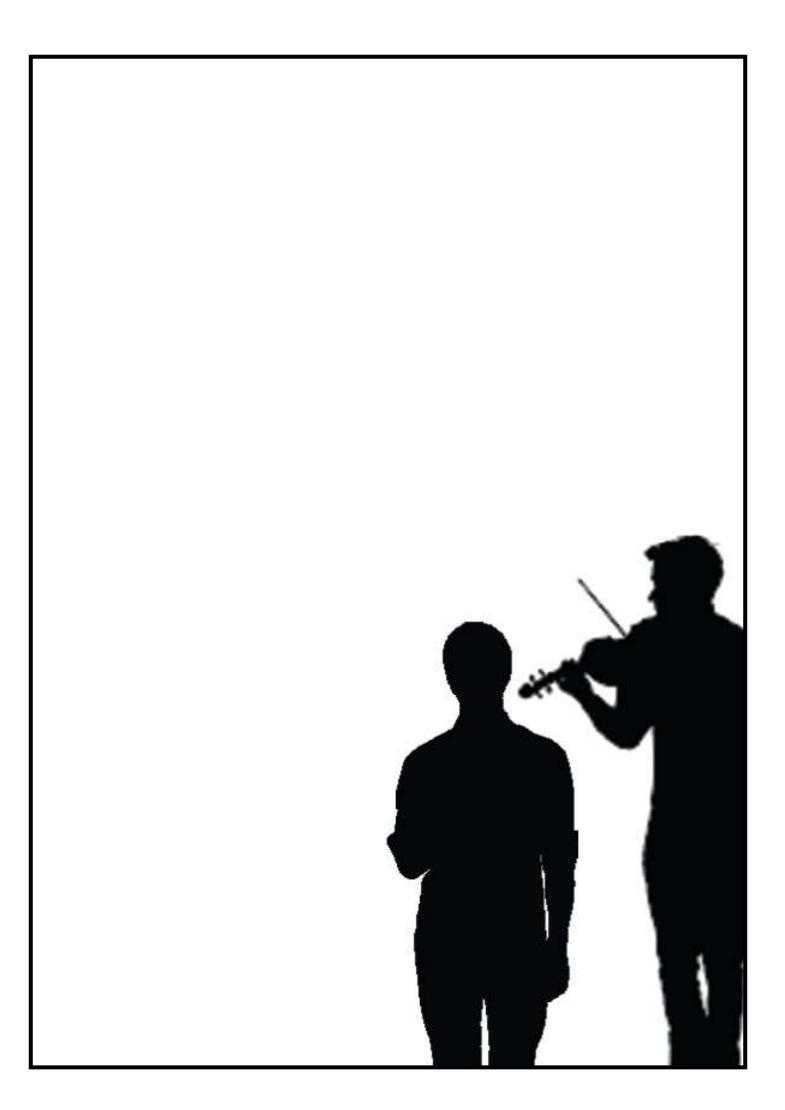


The base layer is a stylised map of the Binckhorst area, where the music venue will be situated. To understand the area, you must not only know the exact building. You will need a deepe understanding of its untangible elements like its culture and identity. As the Binckhorst wi change rapidly during the coming years, it is important to strenghten those qualities by making them more explicit within the architectural design of the venue.	er ll

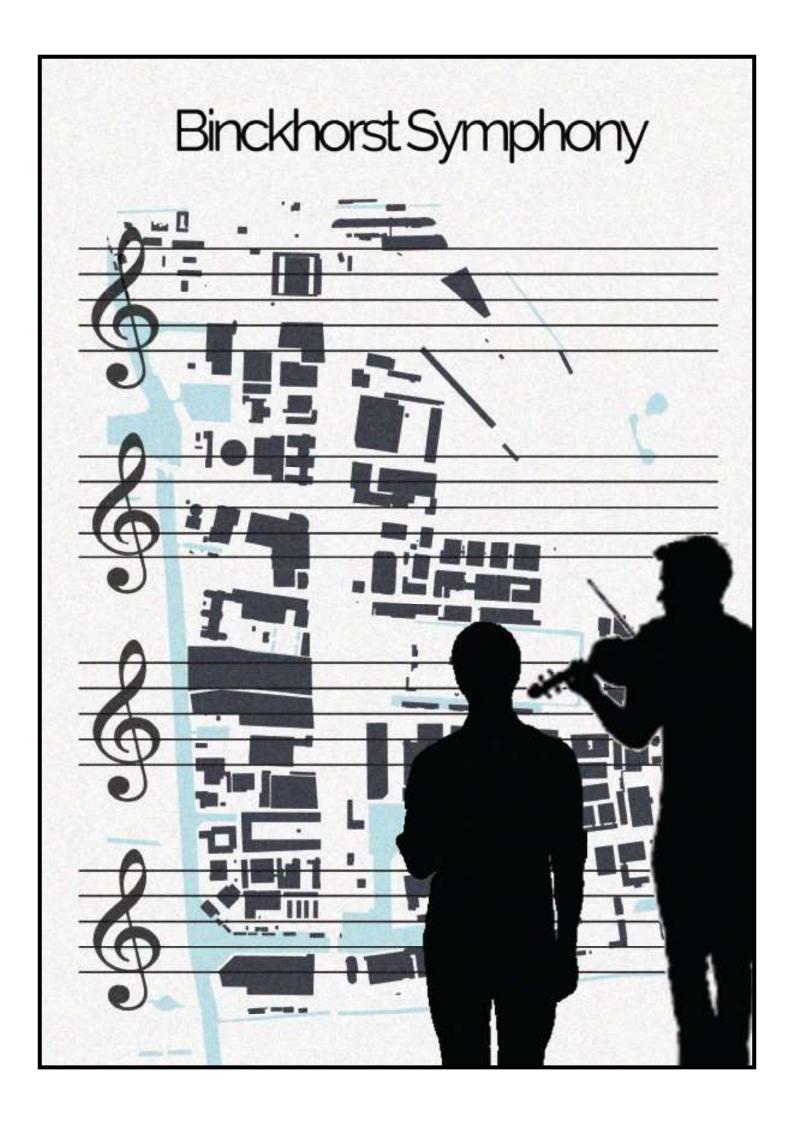
Binckhorst Symphony



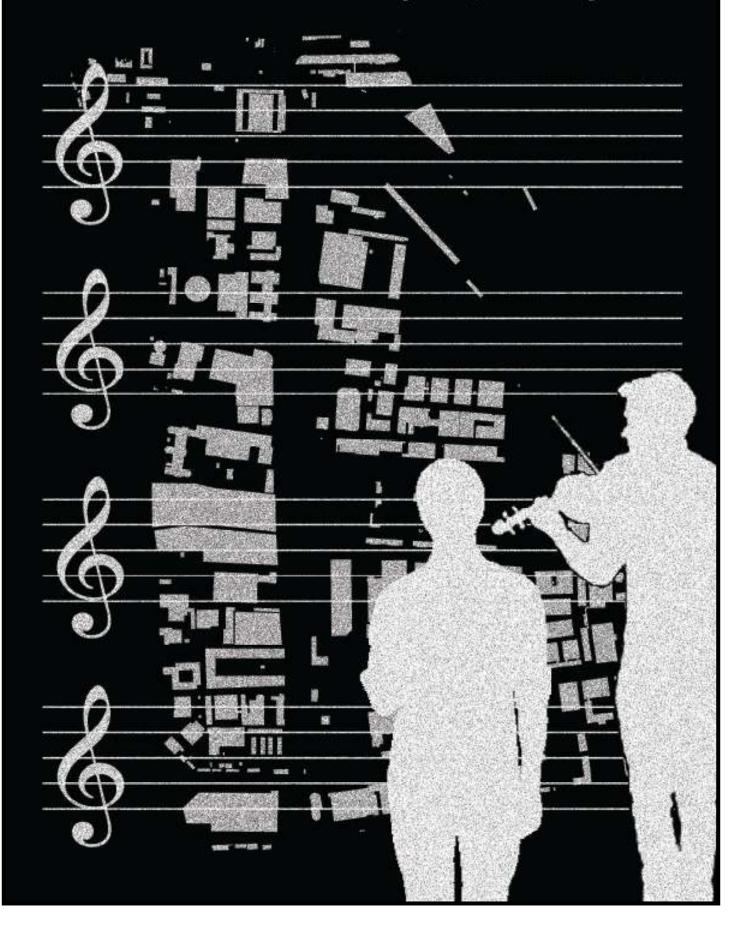
Through the superimposition of you are invited to reconsider the Binckhorst suggest a musical comusical piece gives additional m	e identity of the area. With the omposition within the area. The	use of the staff, the map of the ne experience of the area as a



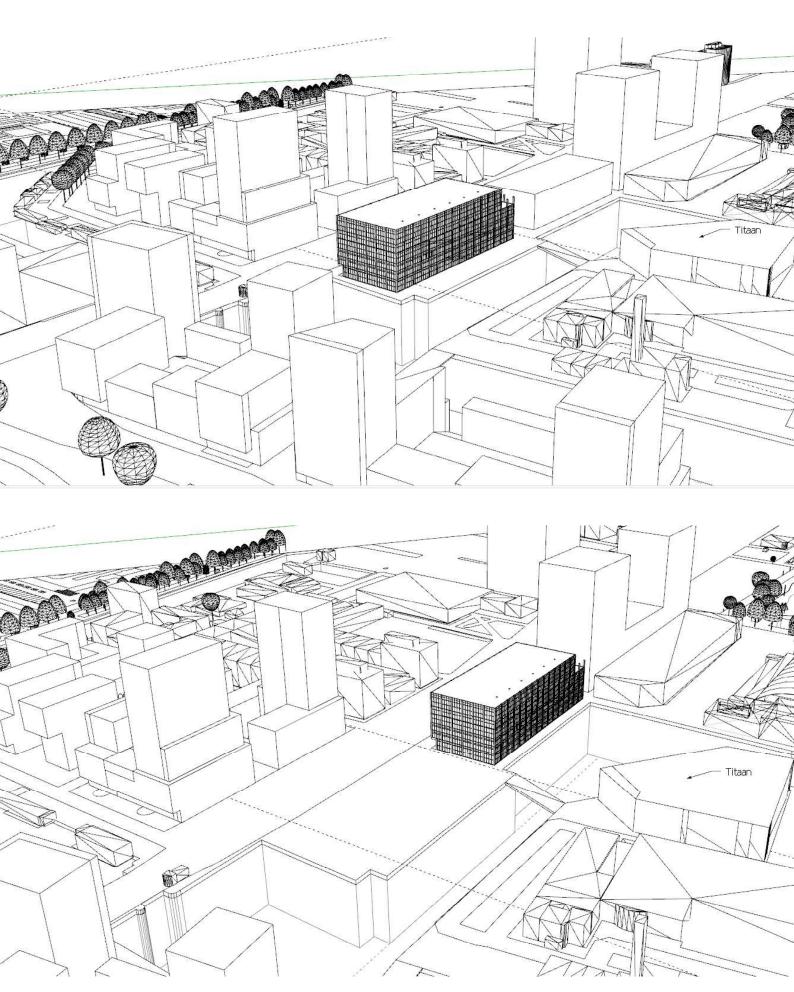
The people in the foreground are p	laced to interact with the	e area and its music. The two
people represent the duality of the people represent the duality of the people represent the area as you interact composition as a whole.	people within the area. N	ot only are you a listener that

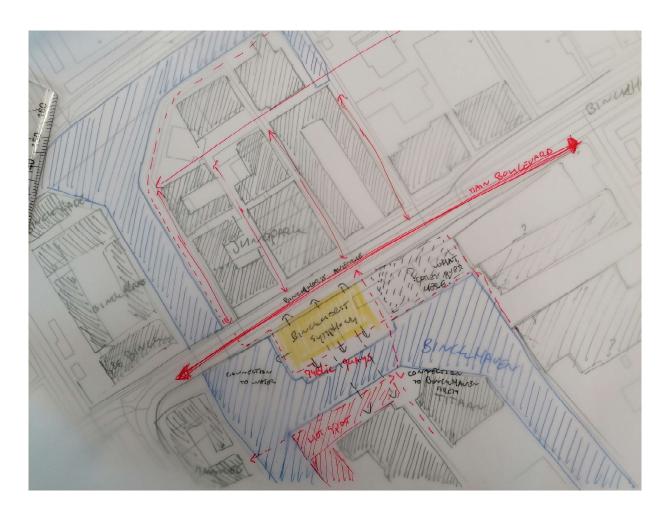


Binckhorst Symphony



Preliminary design

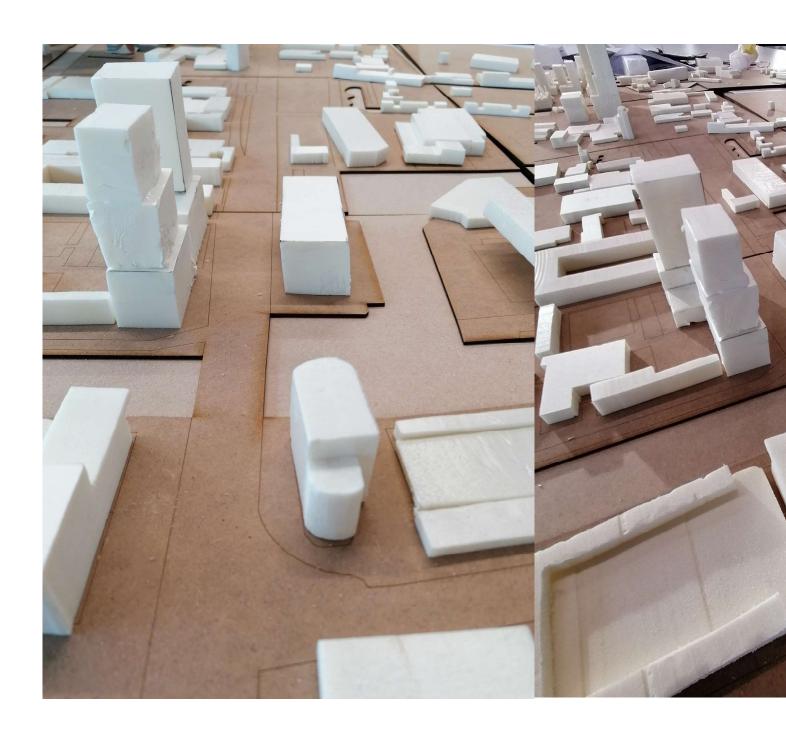








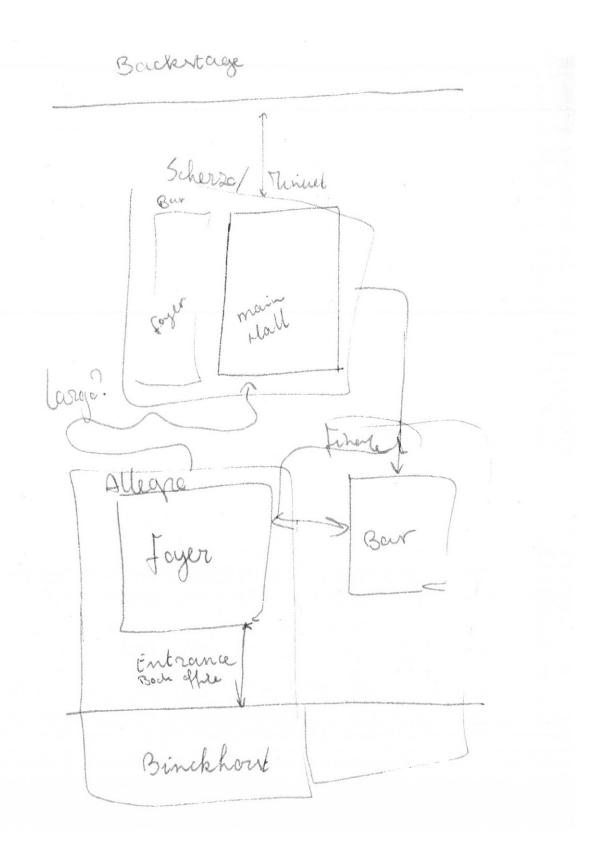








entrana	Rumourie / Coad horotre lively	Binchhart & Eg
	gate a constant and another transfer and a constant	Entrance Tayer
former towards 1	Relaxed Expecting	Corridors of
3	foursel	
Concert &	Exiting	Main Hall & Est
		Main Hall
Orinka 8	Enforce	Entrance Foyer' & Schrift horset'



"Musical" Programme

I Exiting / Lively

Focussed on streetscape Entrance Grand Cafe

II Slow / Lyrical

More calm, setting a relaxed atmosphere Offices Stop for visitors, maybe cloakroom?

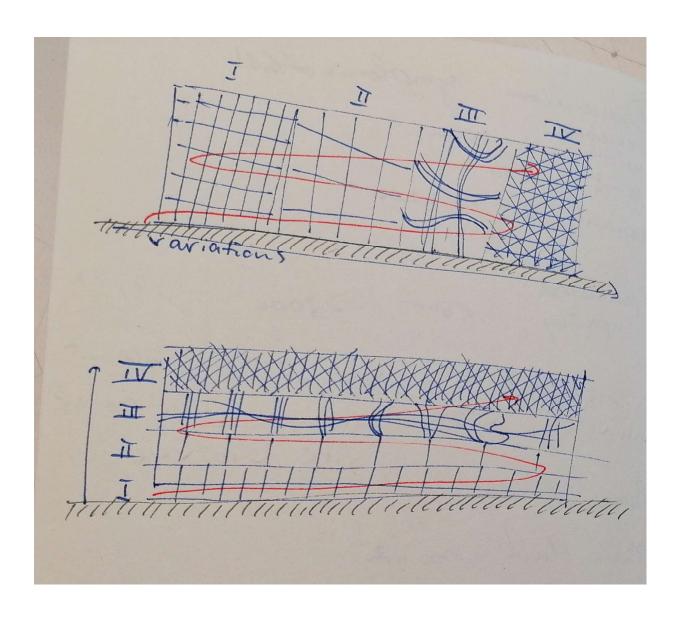
III Dancy

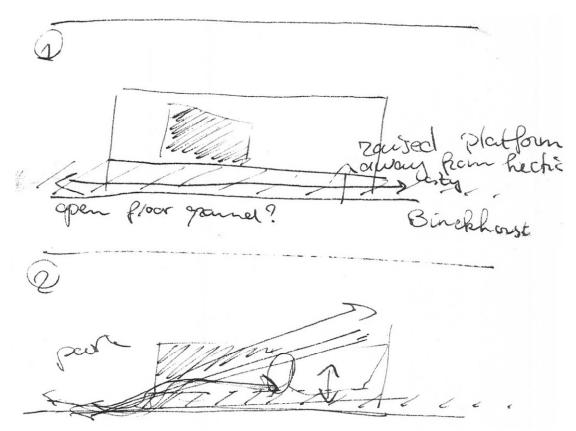
Light spirited, Having a good time Foyers Bar

IV Euphoric

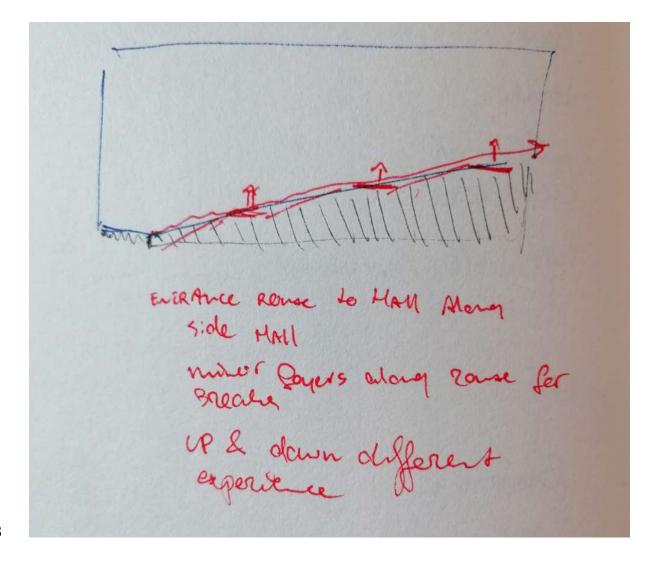
Bombastic Concert halls

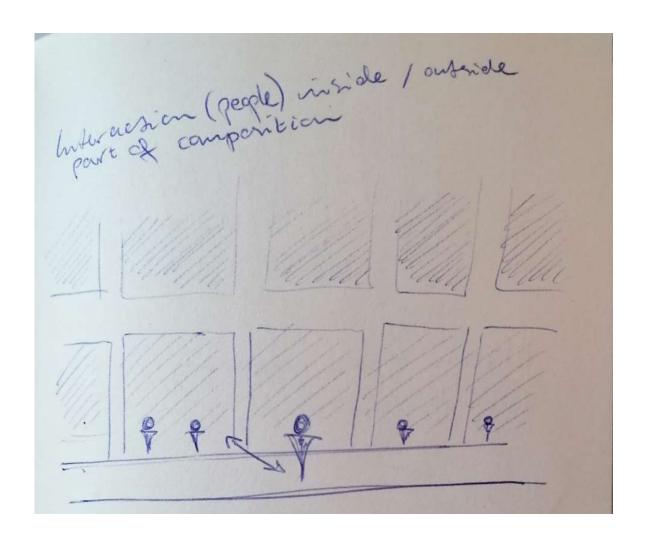
Musical variations in Binckhorst Symphony



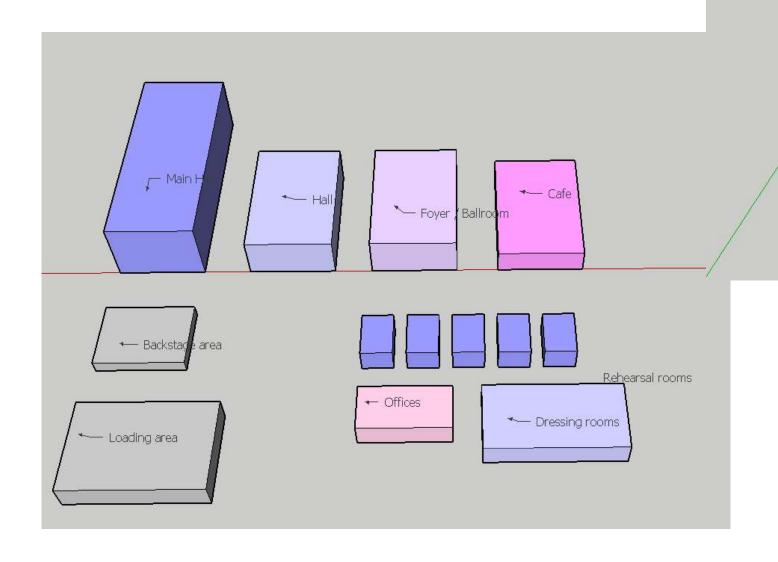


Inclusion of public space

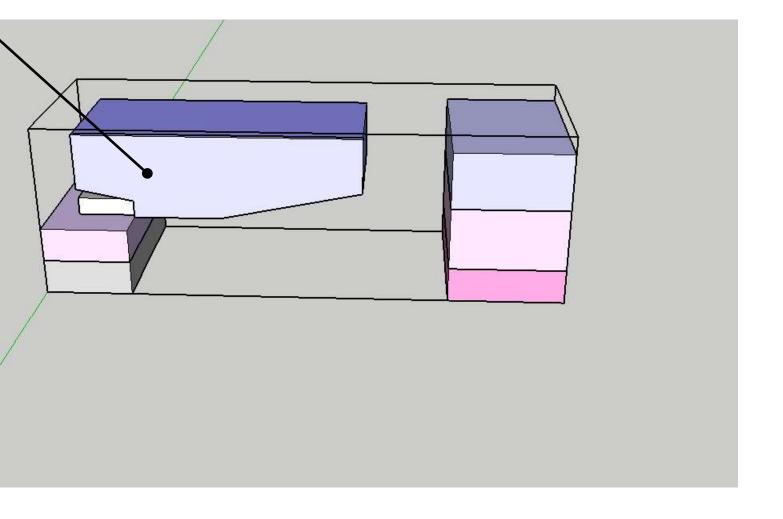


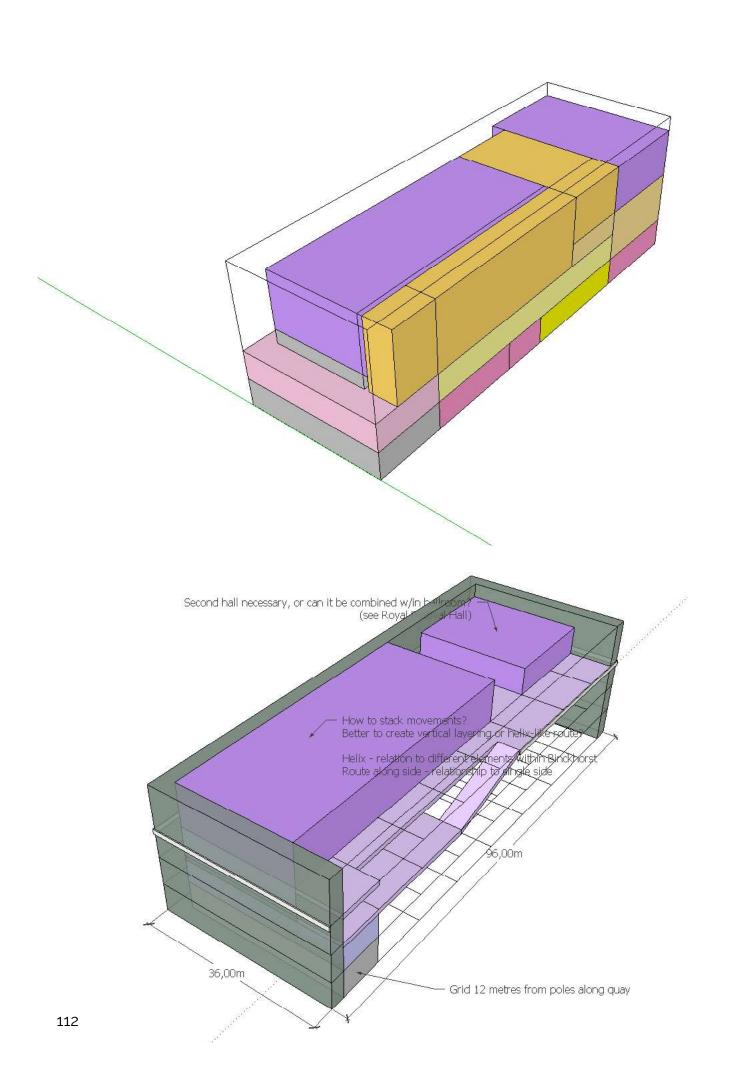


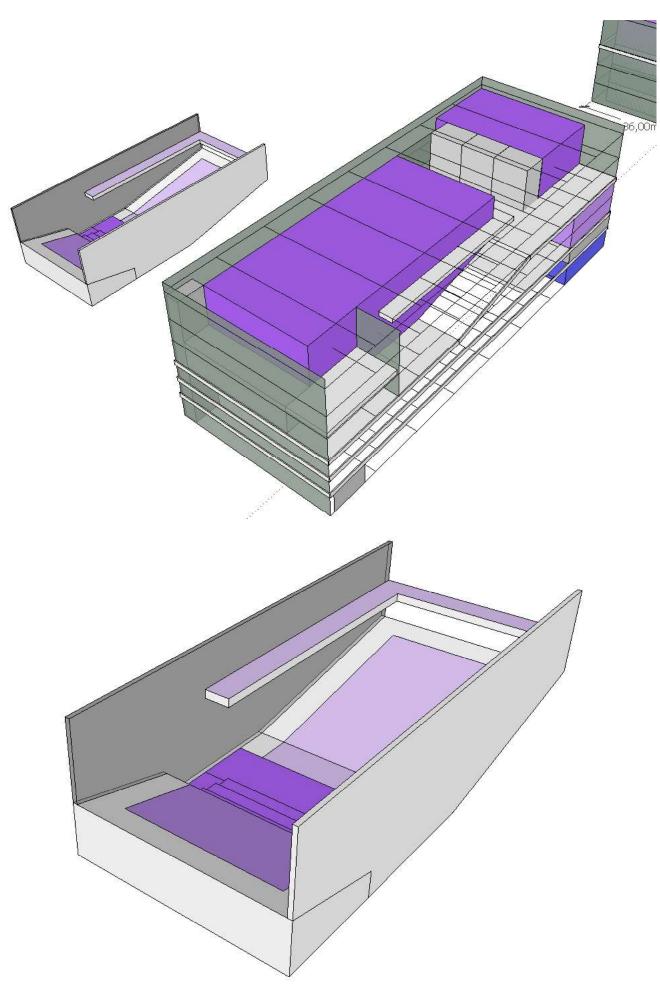


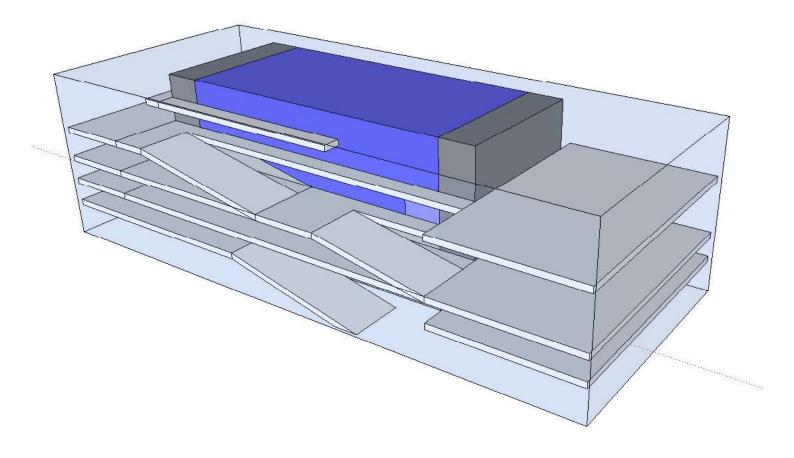


nape main hall like Casa da Musica apacity 1238)









E. Schematic design

Binckhorst zones







TREKVLIETZONE



BINCKHORSTLAAN

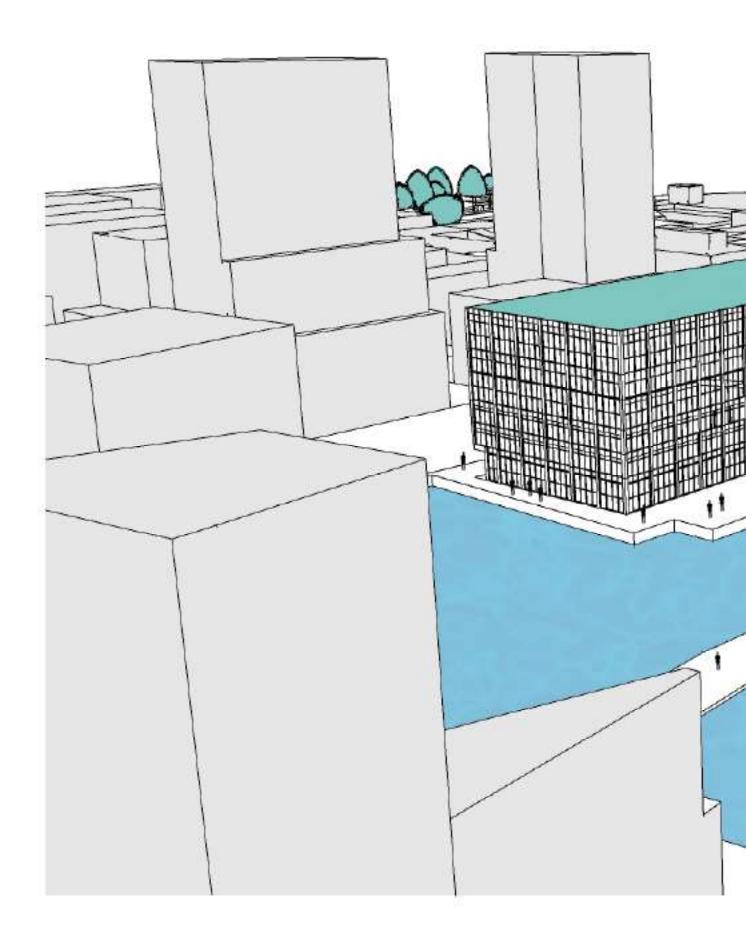


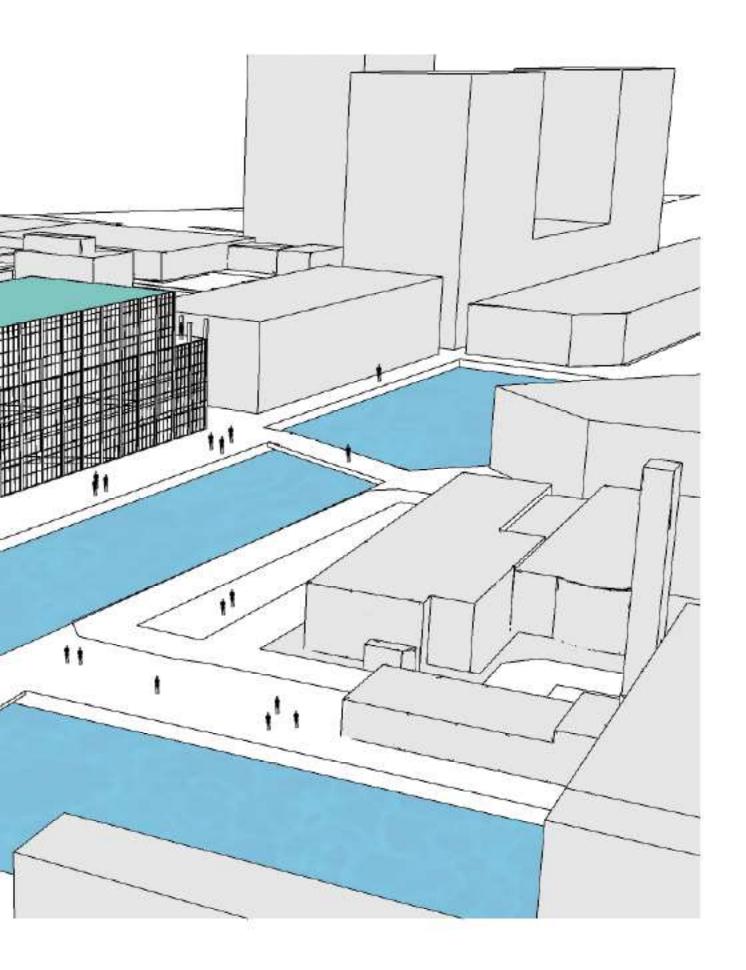
BINCKHAVEN

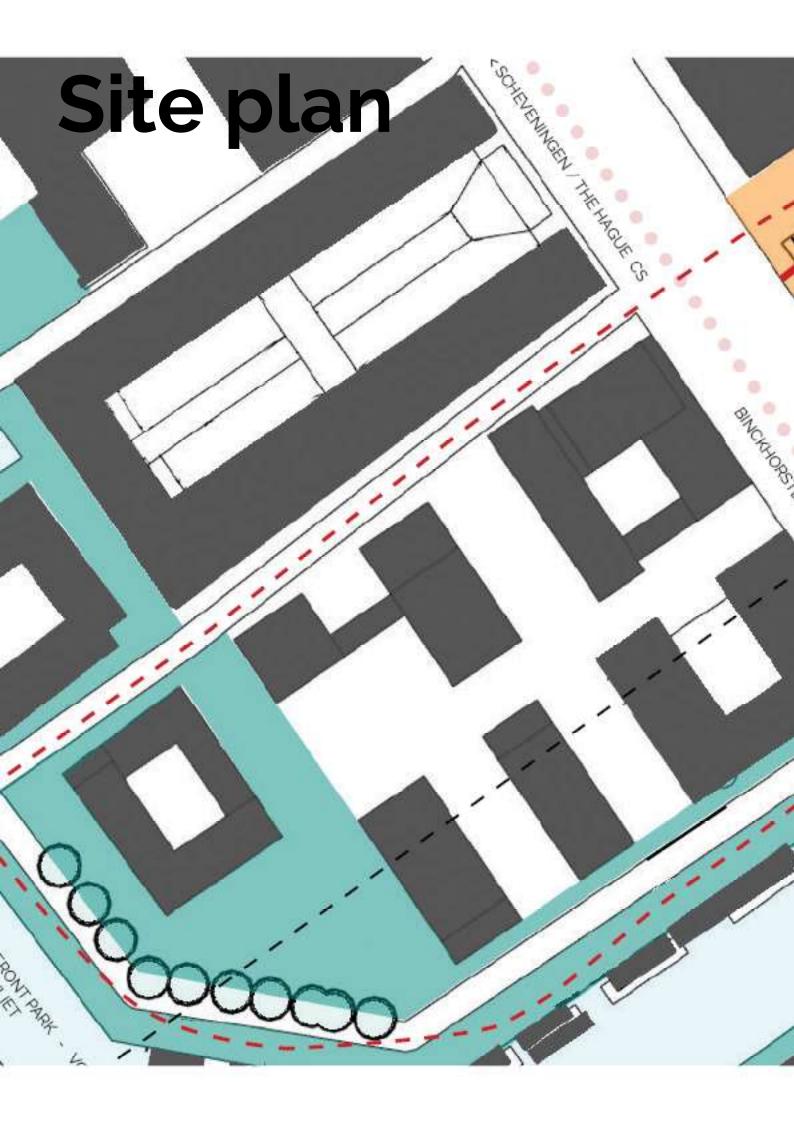
(Impressions:: Municipality of The Hague)



Site

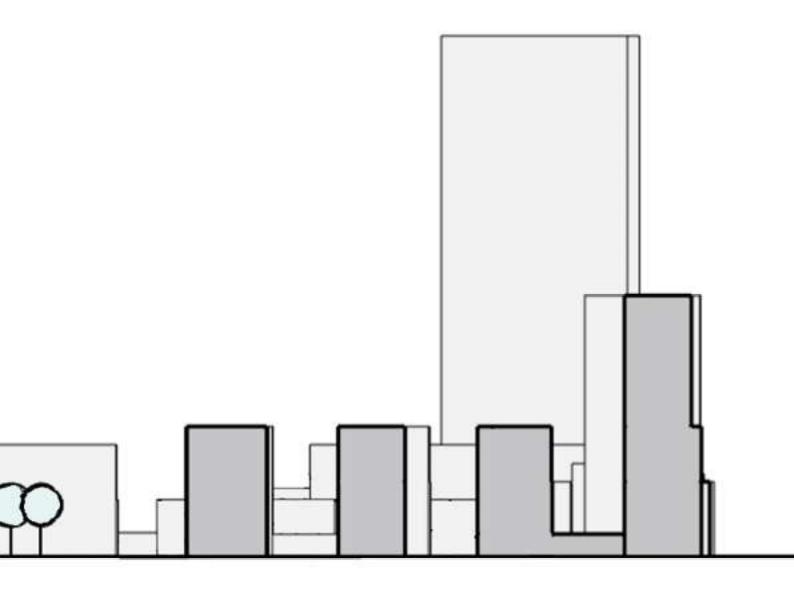


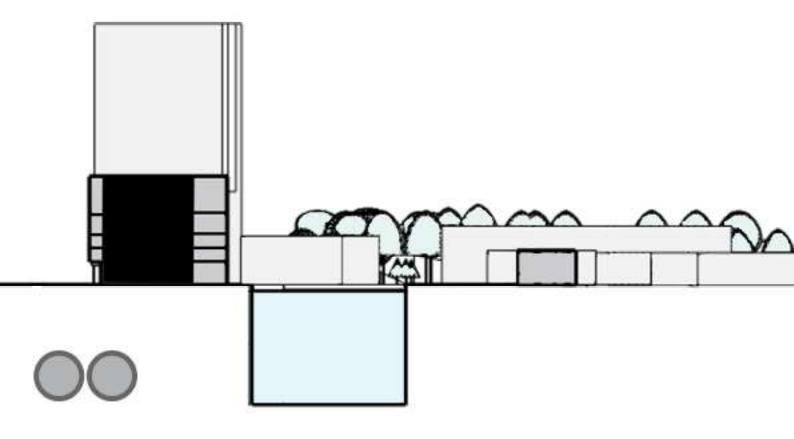




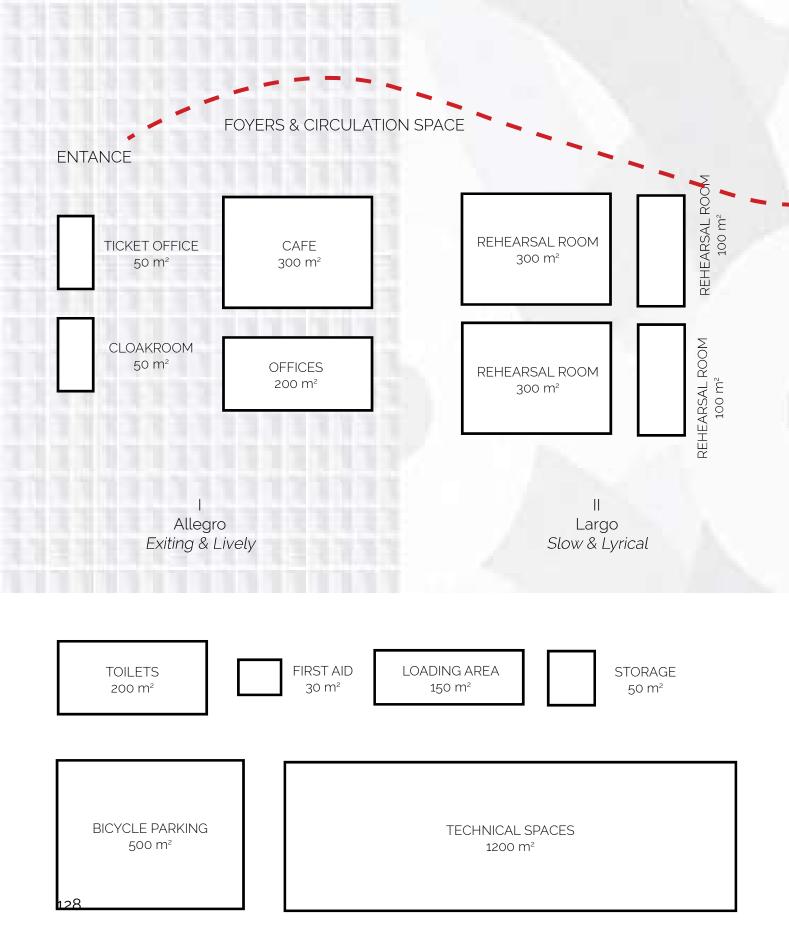


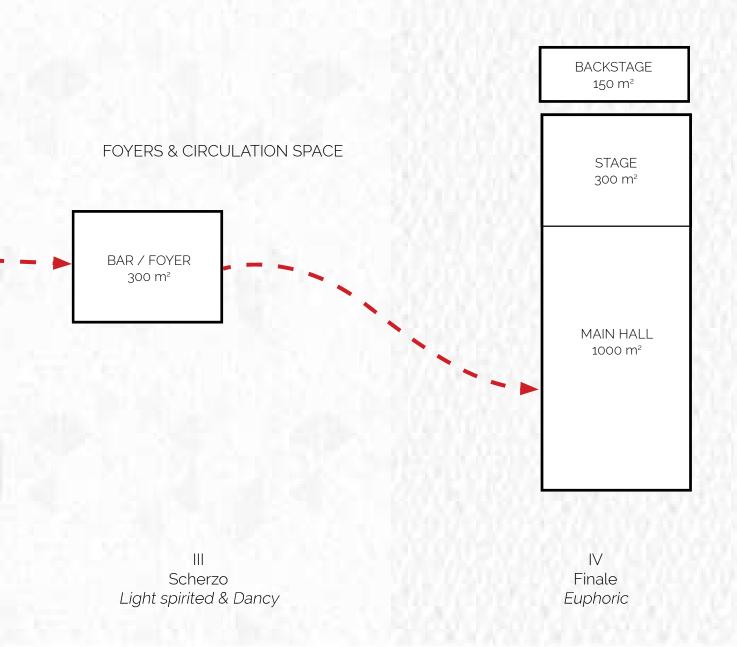
Site section

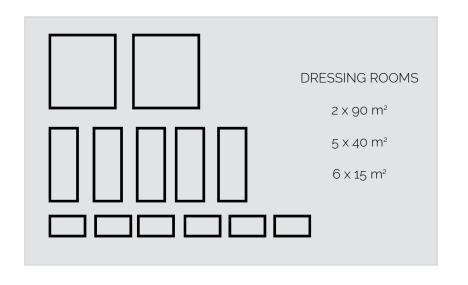




Organisation





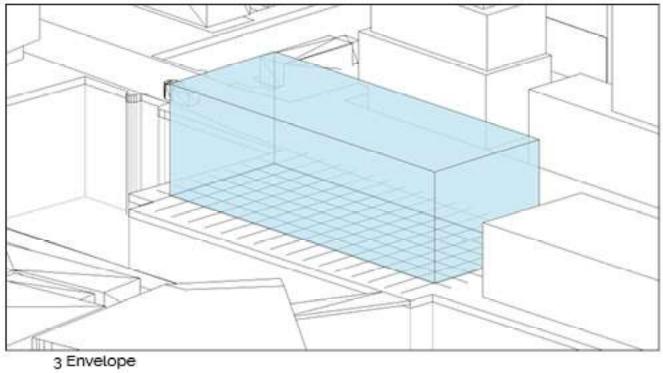


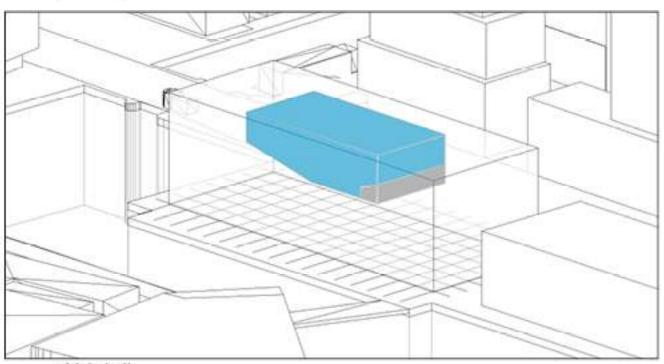
Con

- -

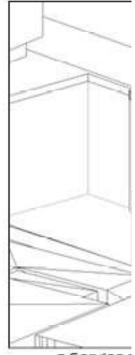




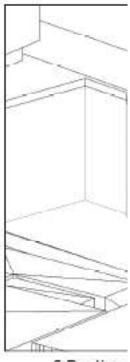




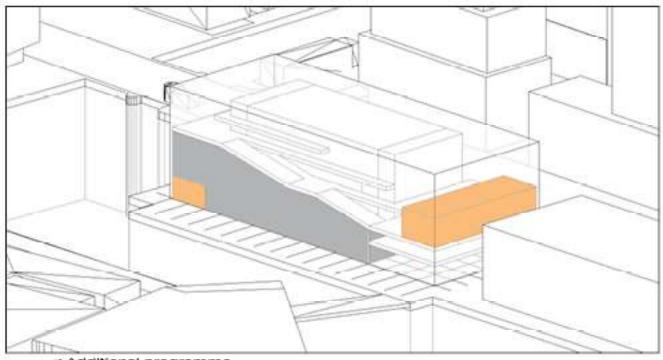
4 Main hall



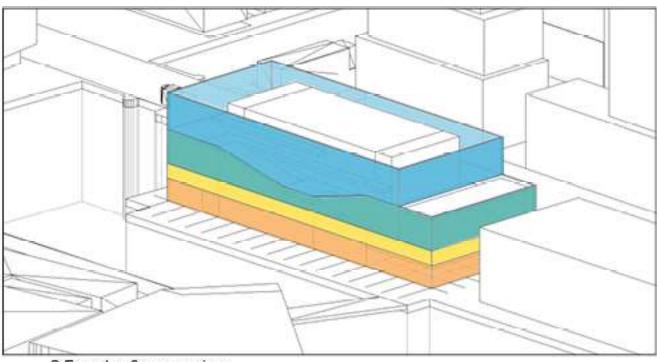
5 Service :



6 Routing



7 Additional programme

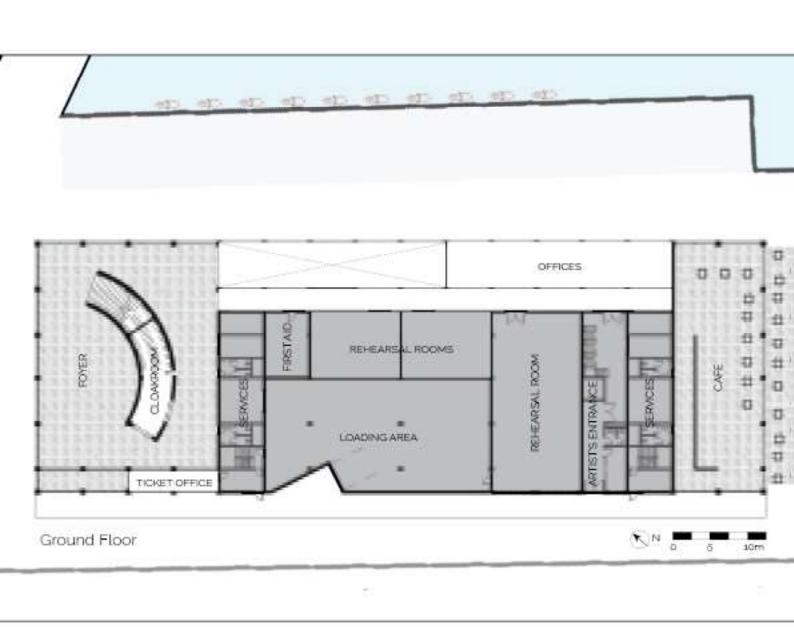


8 Facades & expression

I Allegro





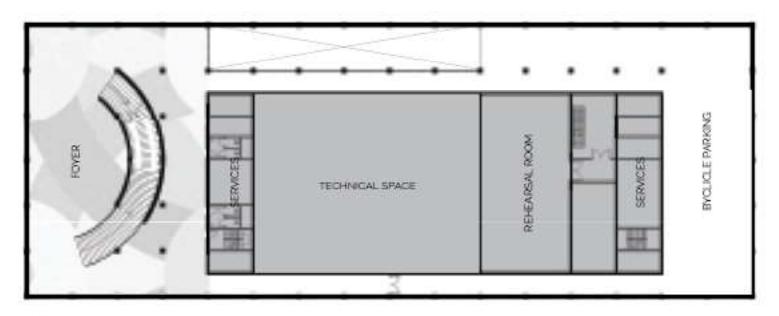


Allegro

Energetic vibe Focussed on streetscape Moderate size of elements Mix of materials Moderate rhythm

II Largo





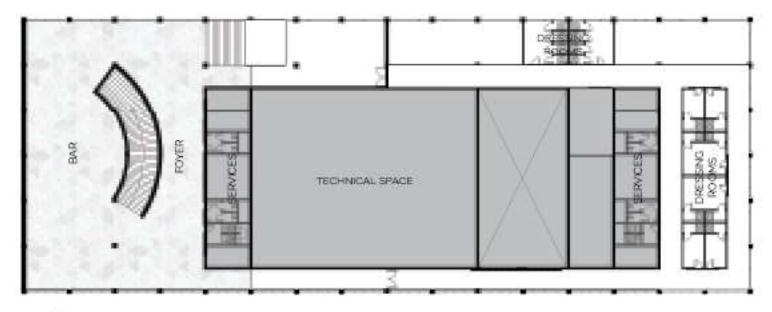
1st Floor

Largo

Calm atmosphere Inward focus Large, sweeping elements Unity in materials Slow rhythm

III Scherzo





2nd Floor

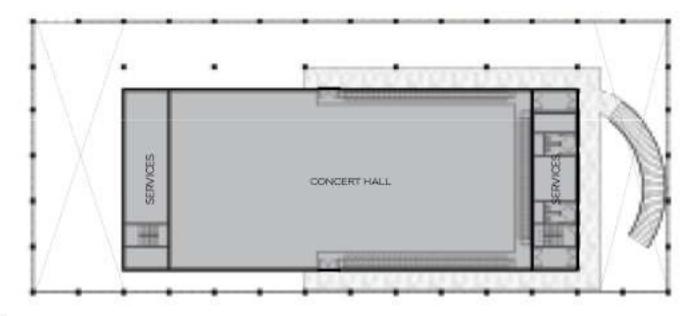
Scherzo

Joyful atmosphere Focussed on activities Mix of large and small elements that interact Clash of materials Moderately fast rhythm

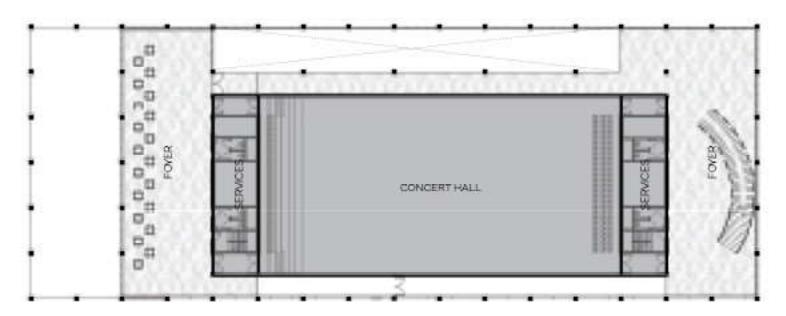
IV Finale



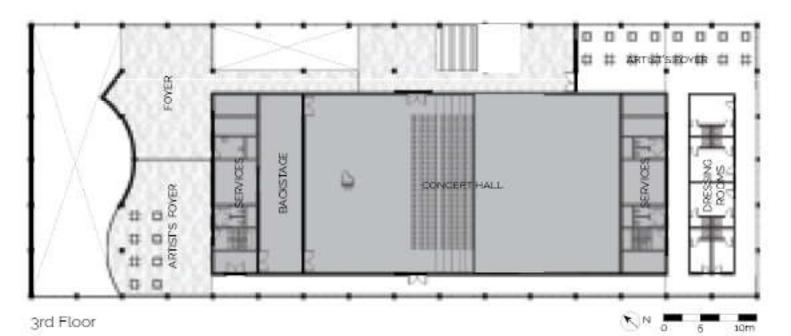
Finale Euphoric vibe Focussed on cityscape Large elements & volumes Mix of materials Moderate rhythm



5th Floor



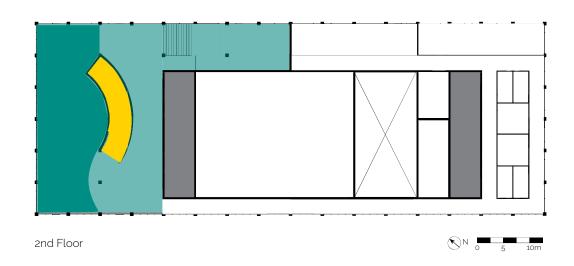
4th Floor

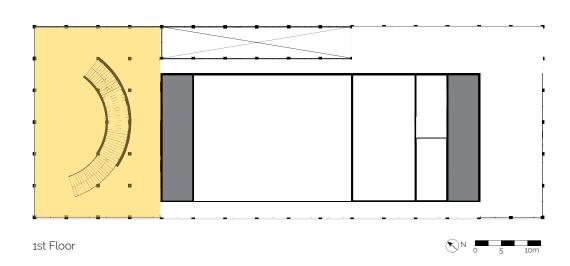


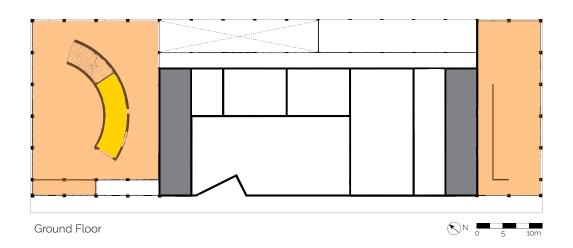
IV Finale

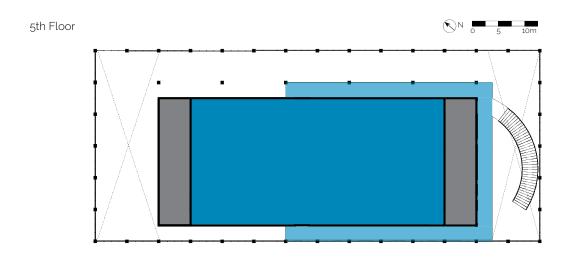


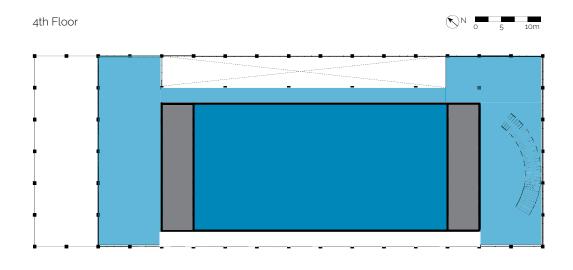


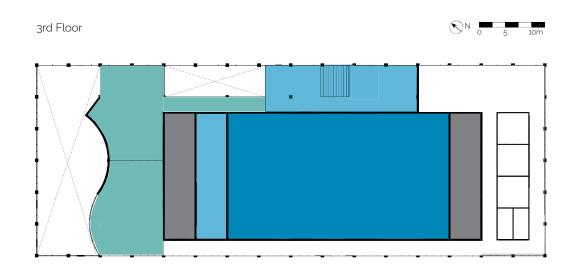


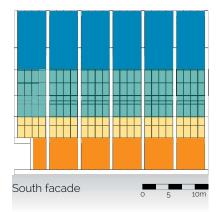


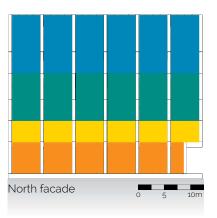


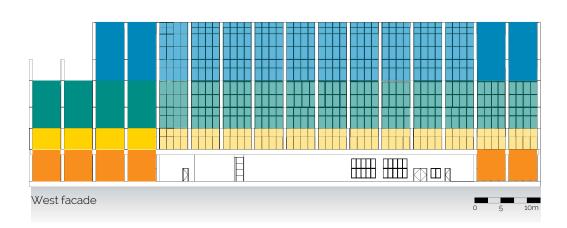


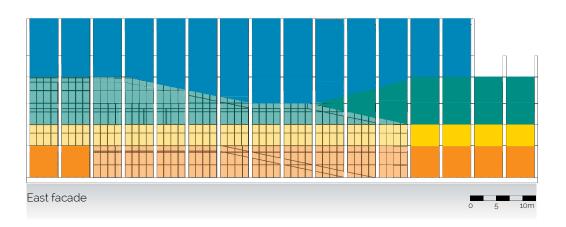


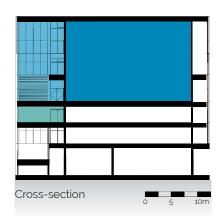


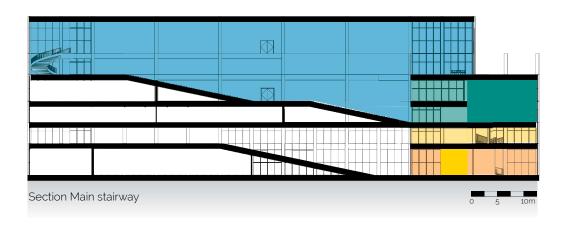


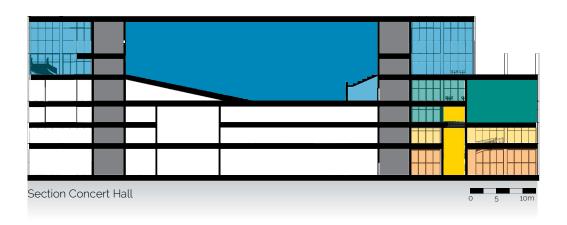




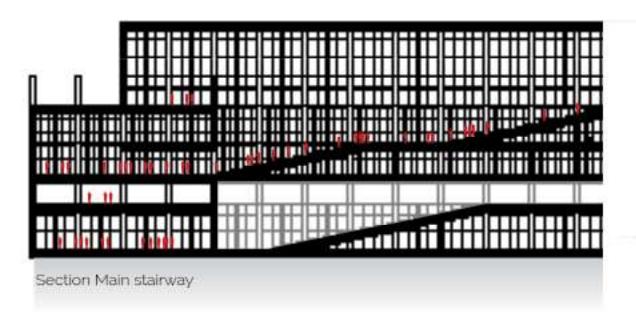


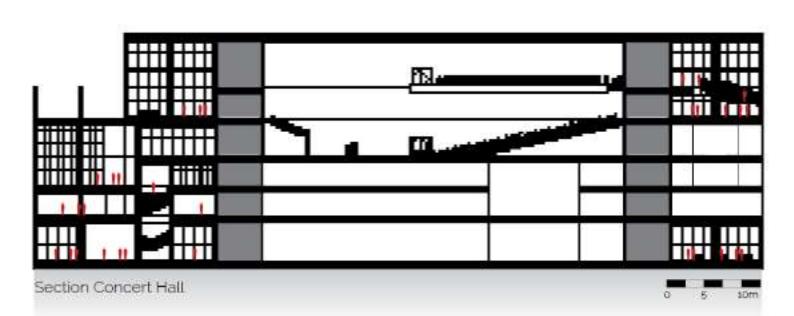


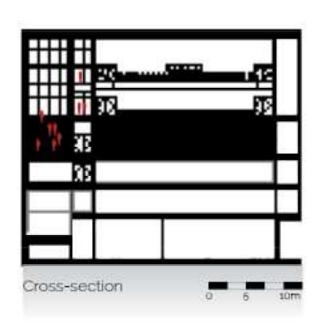




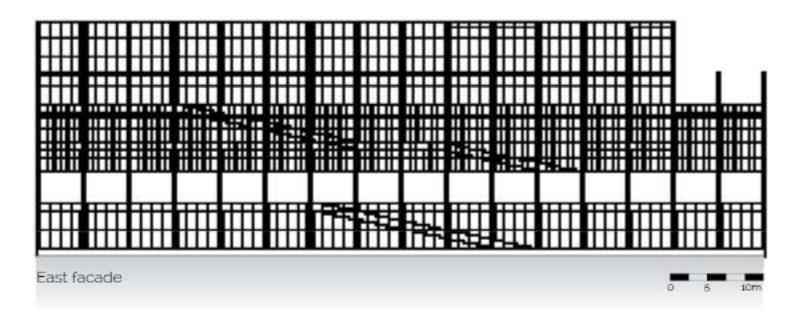
Sections

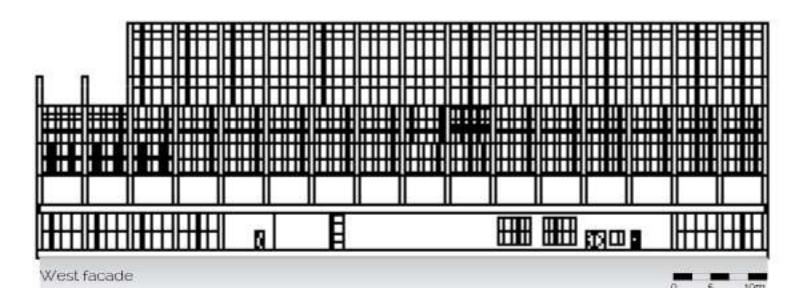


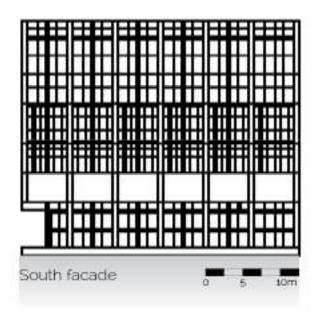


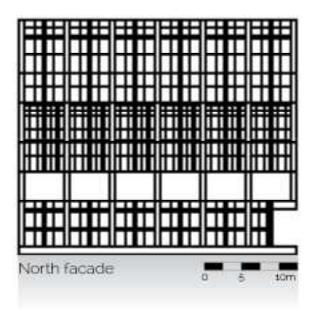


Facades









F. Parameters to construct



Circularity

Flexible structure, easy to adapt



Site

Pollution:

- noise
 - traffic
 - industry
 - public activity
- ground (contaminated soil)

Resident neighbours

Off-street parking

Tunnel (approx. 20m depth)

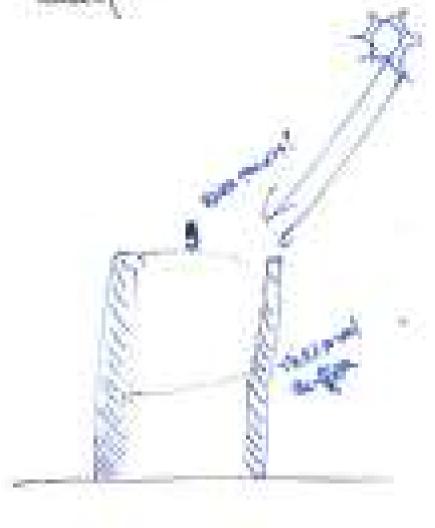
Harbour quays

- provide accessibility & public space
- need structural reinforcement

PARKEL

HERMANITH TOUCHER

was more form offered wood of the



Energy

Heating & cooling

- use of thermal mass
- buffer zones along facades

Lighting

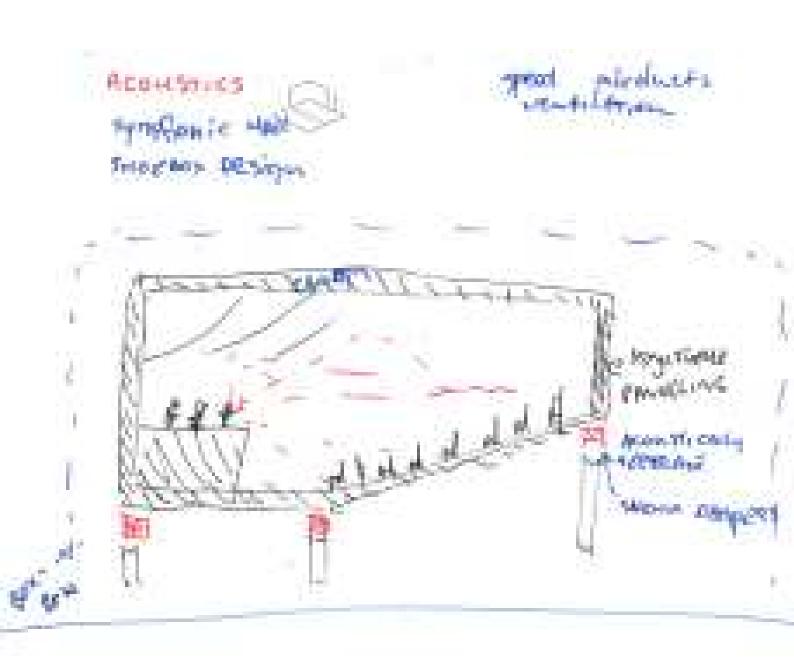
- solar panels

Materiality

Appearance

Acoustic quality

Durability



Acoustics

Acoustic insulation

- both in spatial and structural elements

Music hall (symphonic music)

- shoebox design
- architectural elements to improve sound
- adjustable acoustic quality

Disturbance through ventilation system

Multiplicity

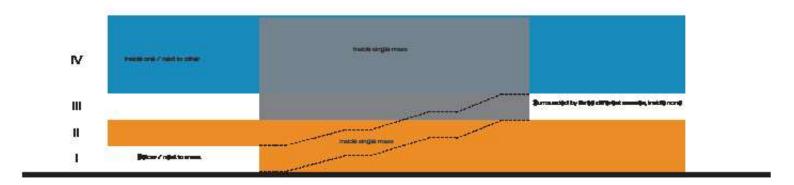
Musical experience forms an additional, meaningful layer within the architecutre of the building.

Multifunctional spaces that can be used when not necessary for concerts.

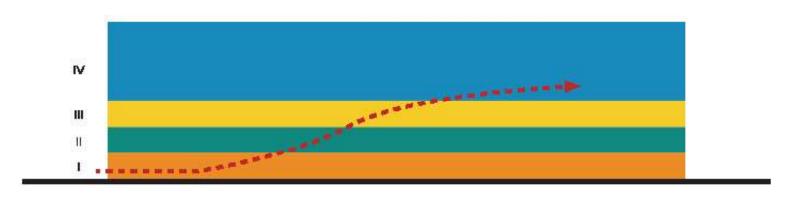
Additional public functions for the neighbourhood.

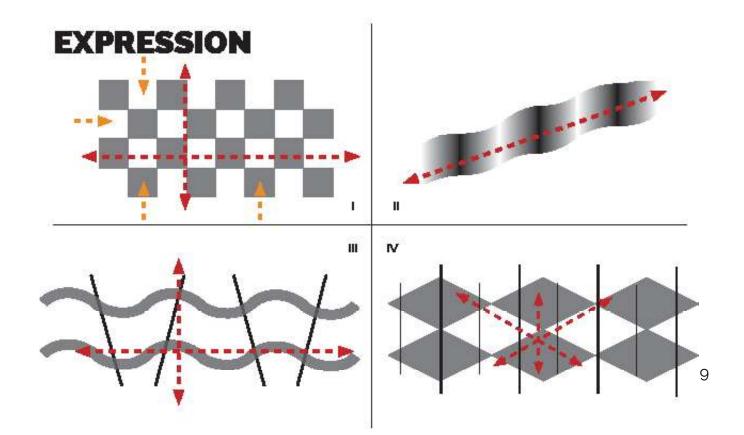
G. Process Documentation

KEY MASSES



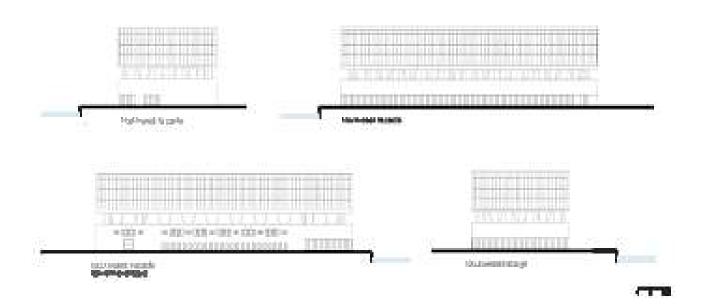
MUSICAL ZONES

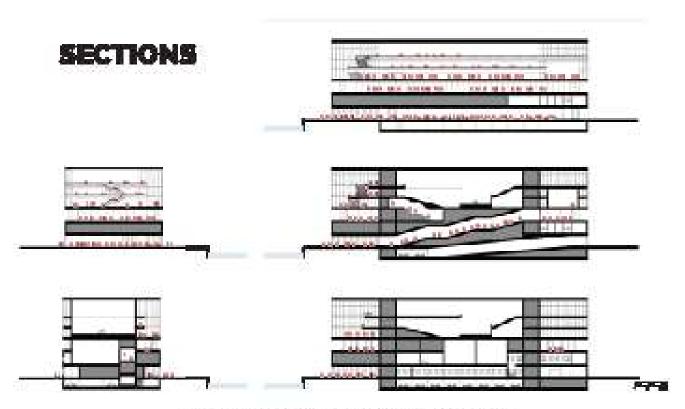






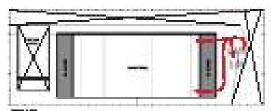
FACADES



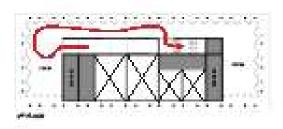


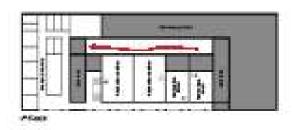
FLOORPLANS

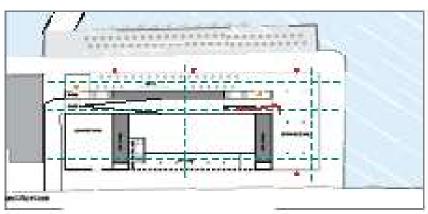
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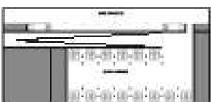






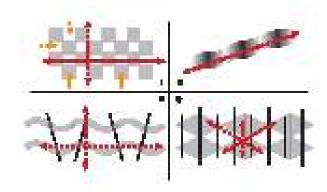






See Property

EXPRESSION

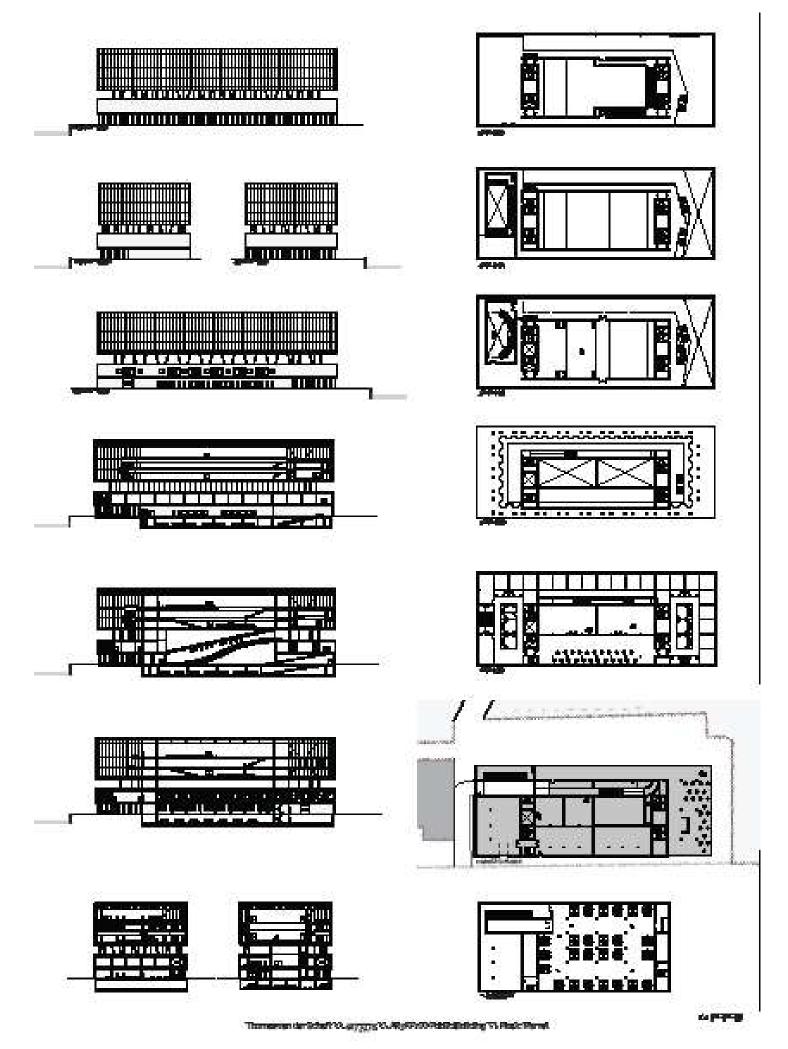


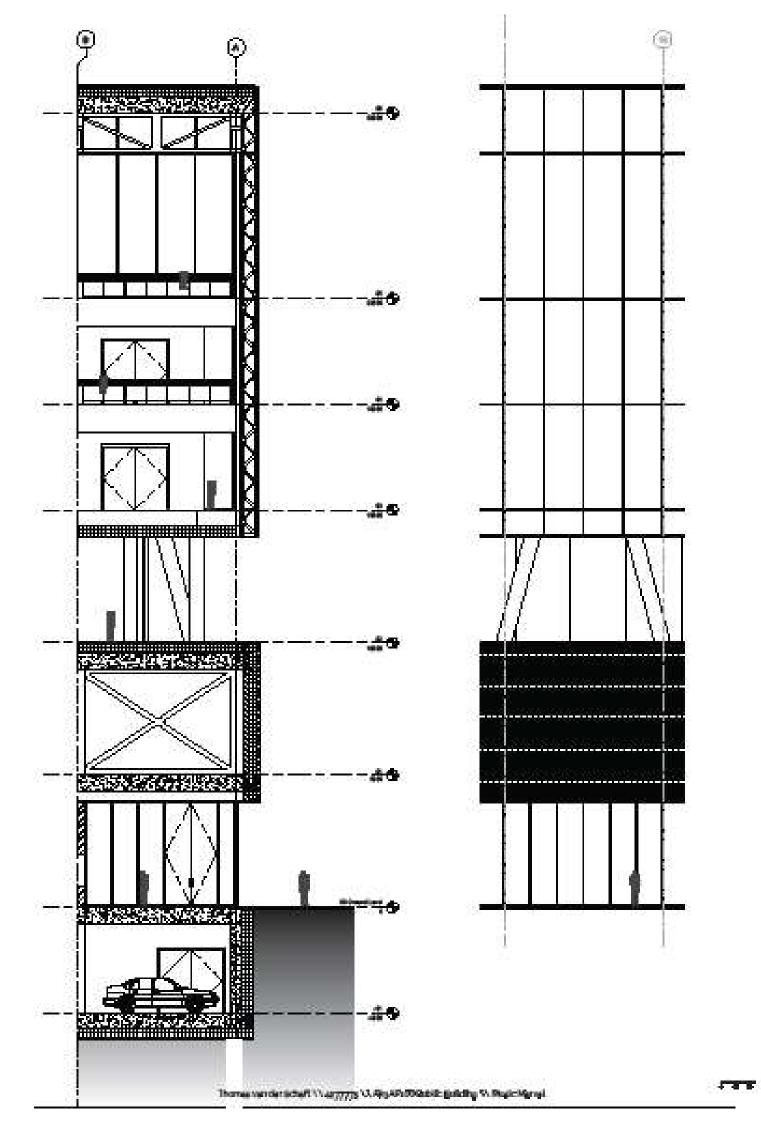






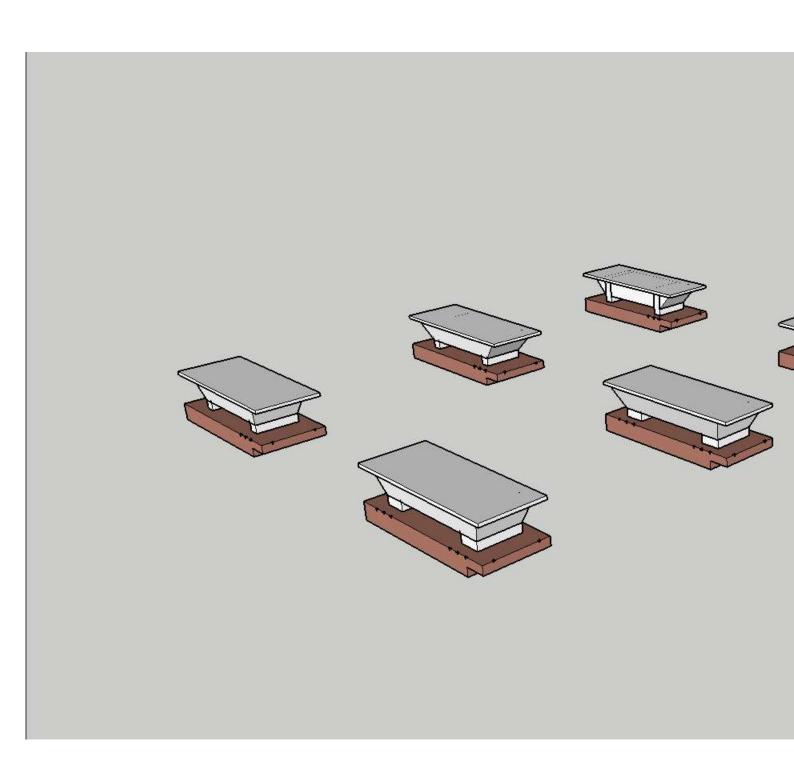


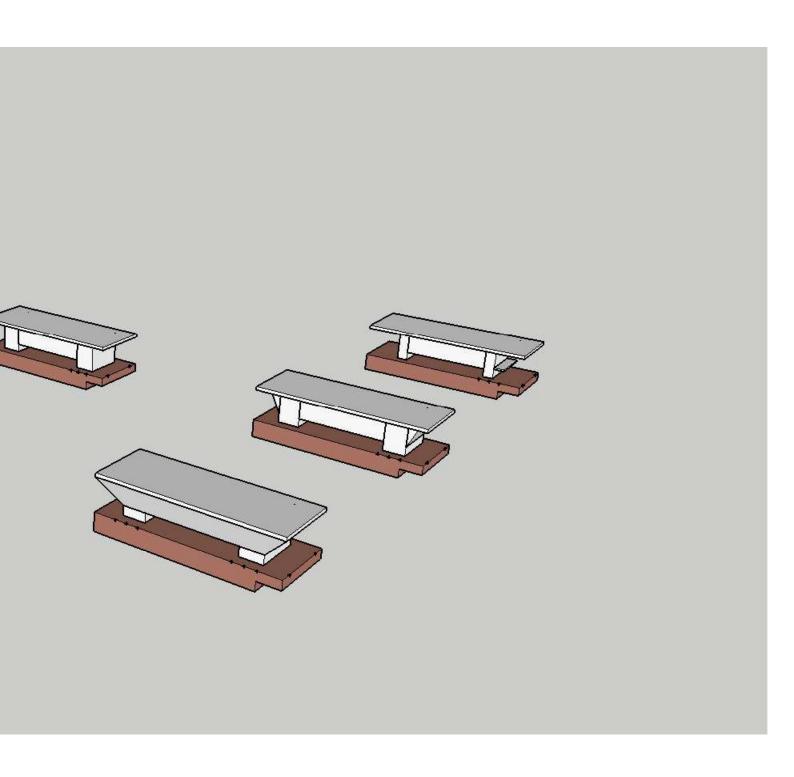


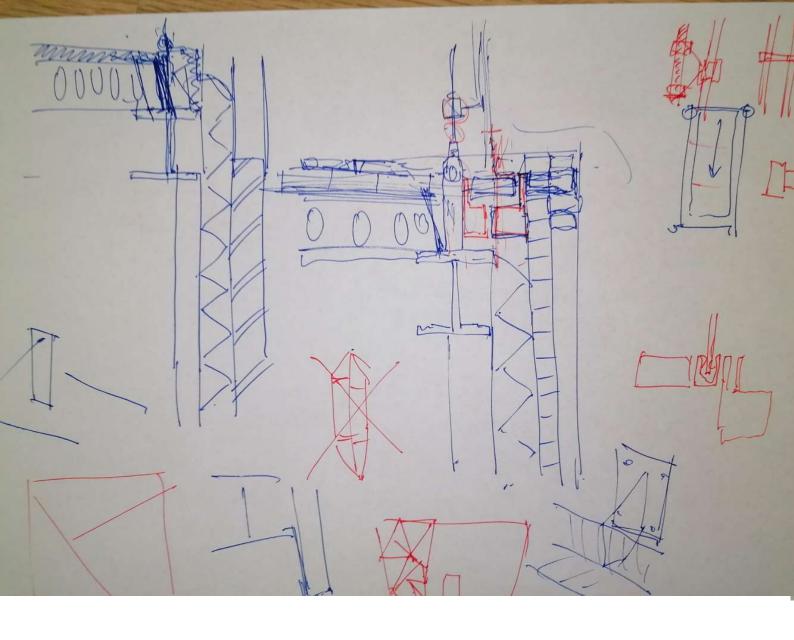


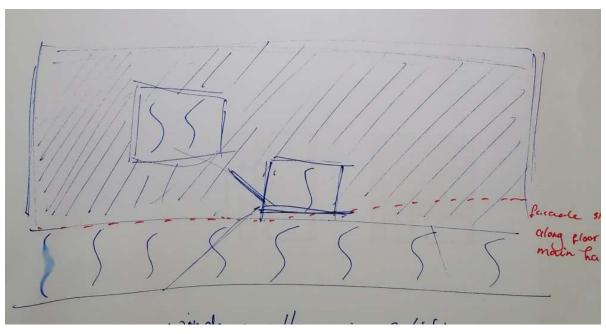


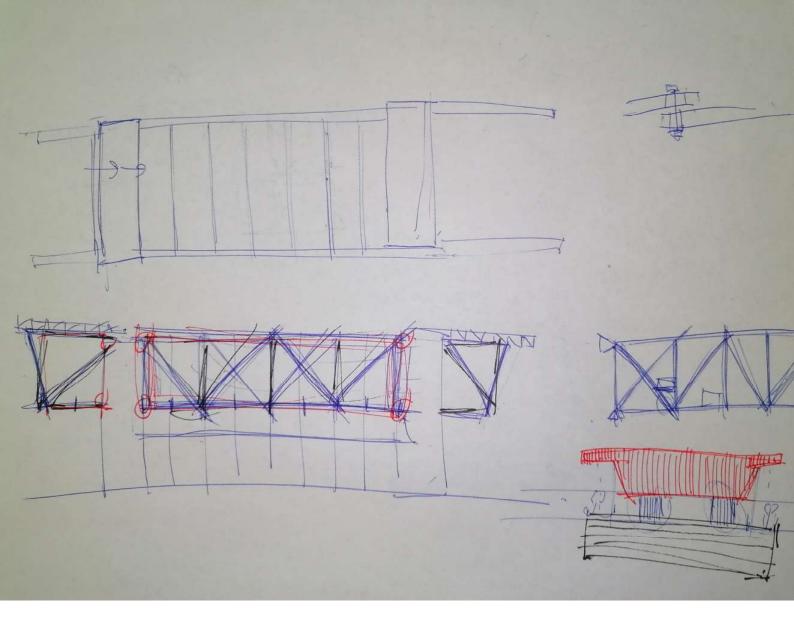
Form studies

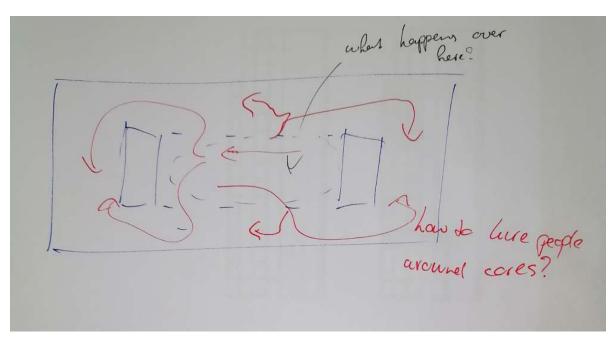


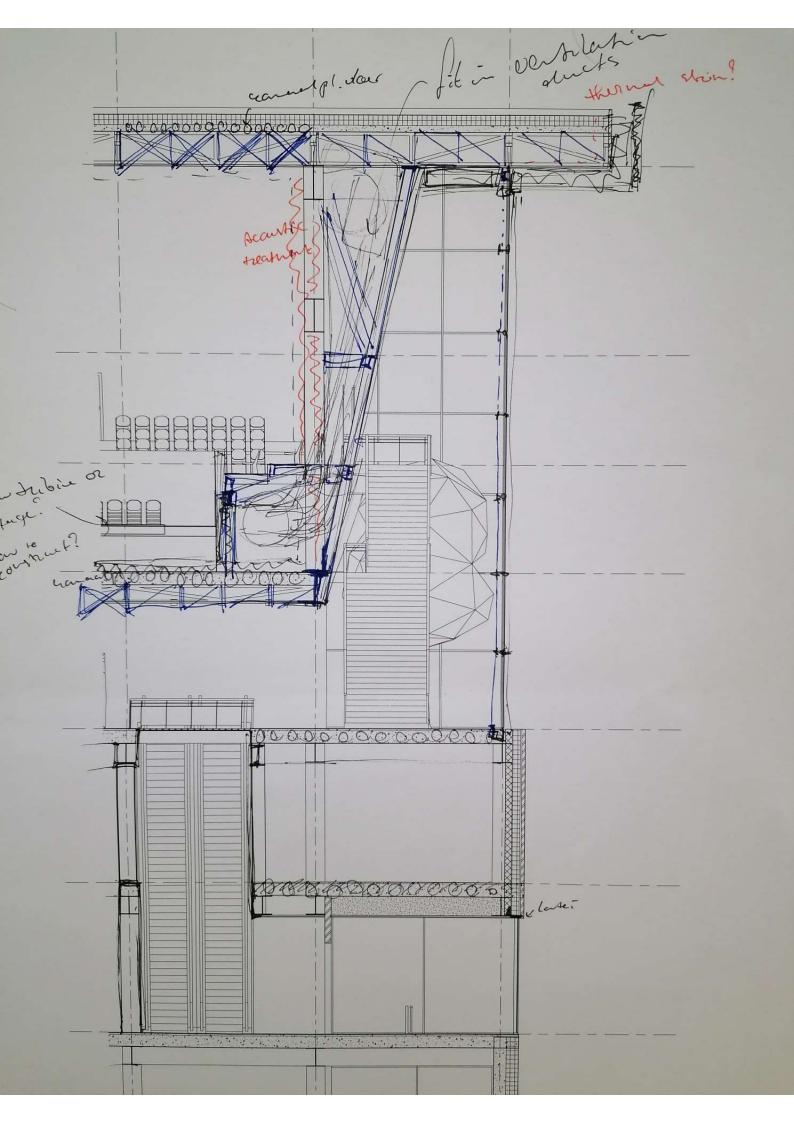


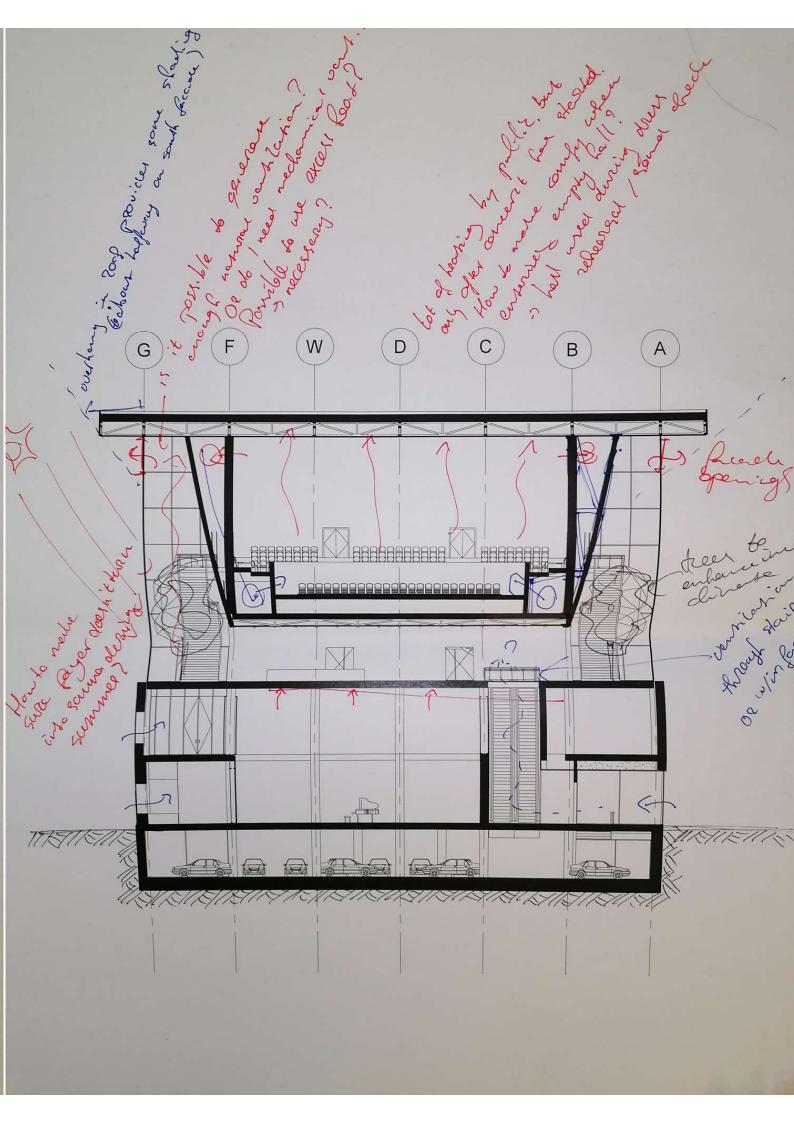






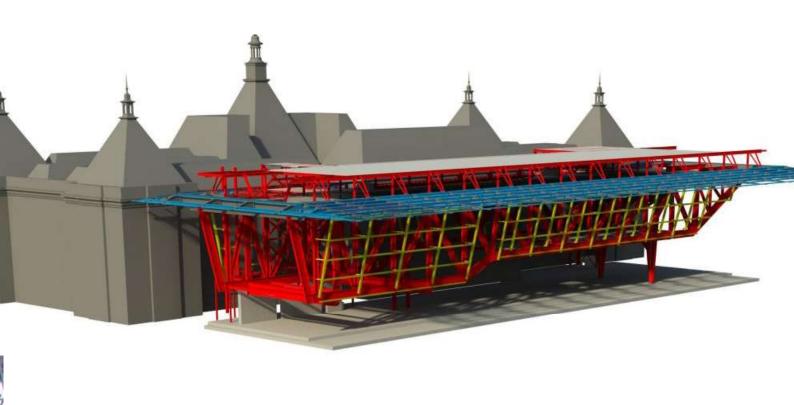






Reference Stedelijk Museum Neutelings Riedijk



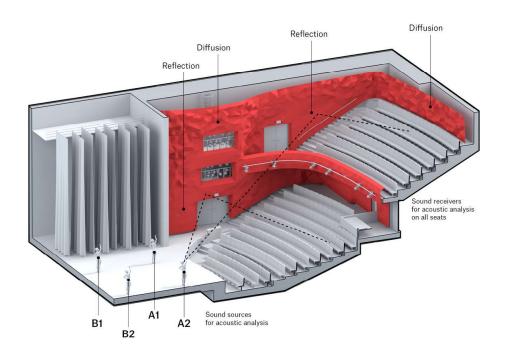


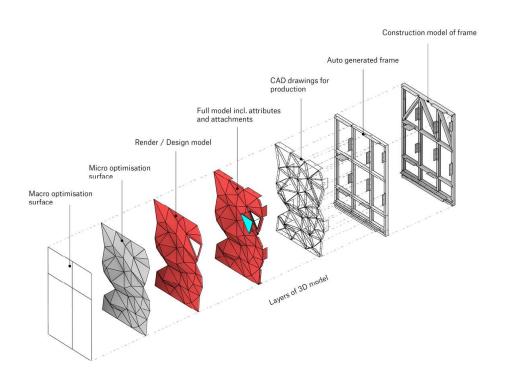


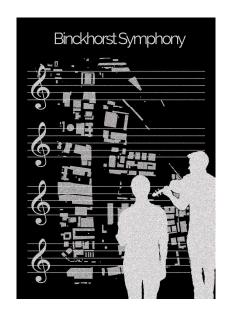
Reference INHolland Delft Octatube

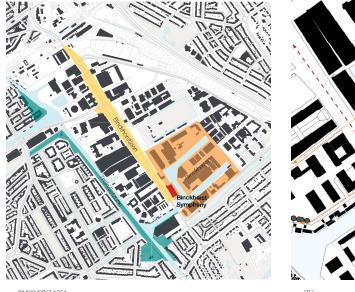


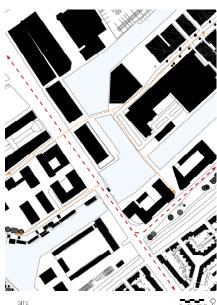
Reference Zuidpleintheater Studio RAP

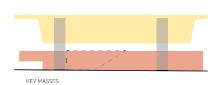


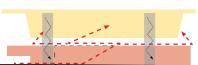


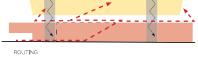


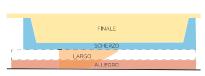




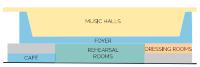




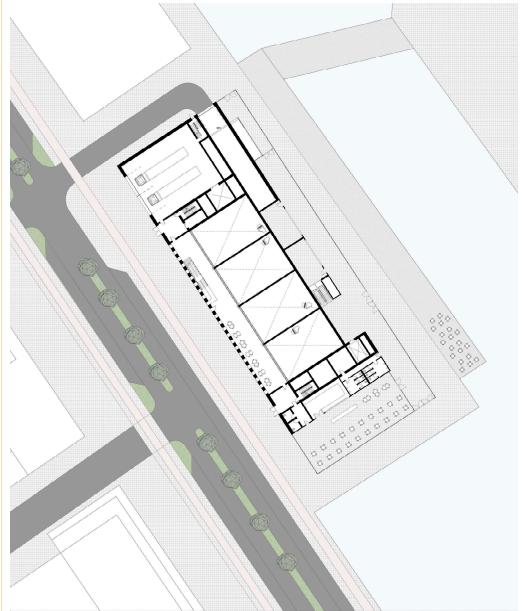




SYMPHONIC ZONES



PROGRAMMING





FINALE - MAIN HALL



SCHERZO FOYER



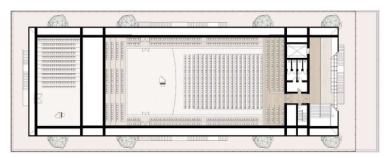
LARGO - MAIN STAIRWAY



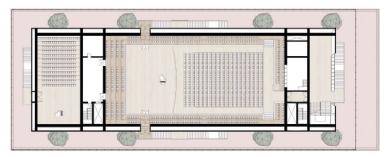
ALLEGRO - ENTRANCE HALL



APPROACH FROM SOUTH



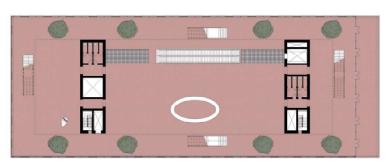
5TH FLOOR - BALCONY LEVEL



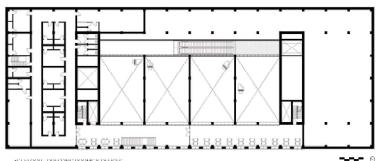
4TH FLOOR - MAIN HALL UPPER RING LEVEL



3RD FLOOR - SMALL HALL & MAIN HALL LOWER LEVEL

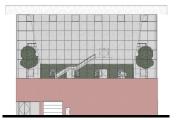


2ND FLOOR - FOYER

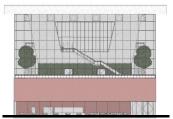


1ST FLOOR = DRESSING ROOMS & OFFICES



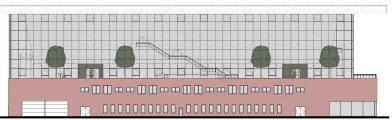


NORTH FACADE



SOUTH FACADE

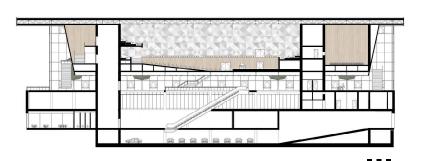


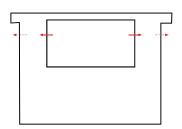


WEST FACADI

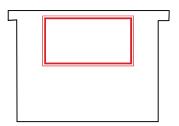


EAST FACADE

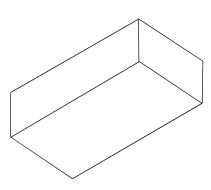




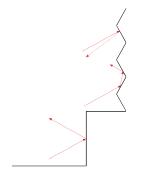
"EGG IN A BOX" - NO HALLS ALONG FACADE



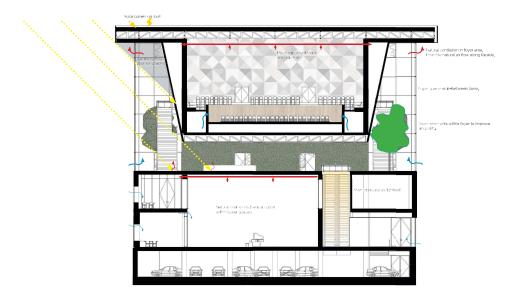
INSULATE HALLS ACOUSTICALLY



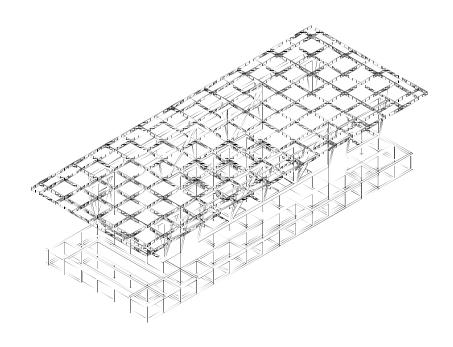
SHOEBOX SHAPED HALLS

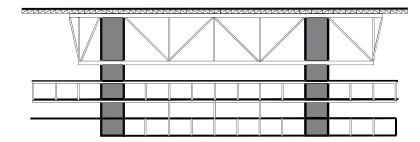


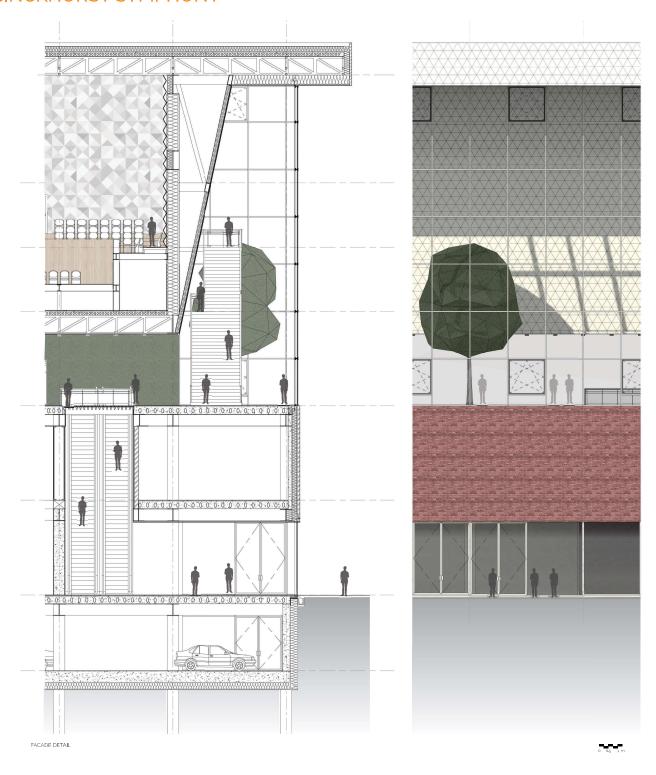
REFLECTION AND DIFFUSION



CLIMATE DESIGN PRINCIPLES



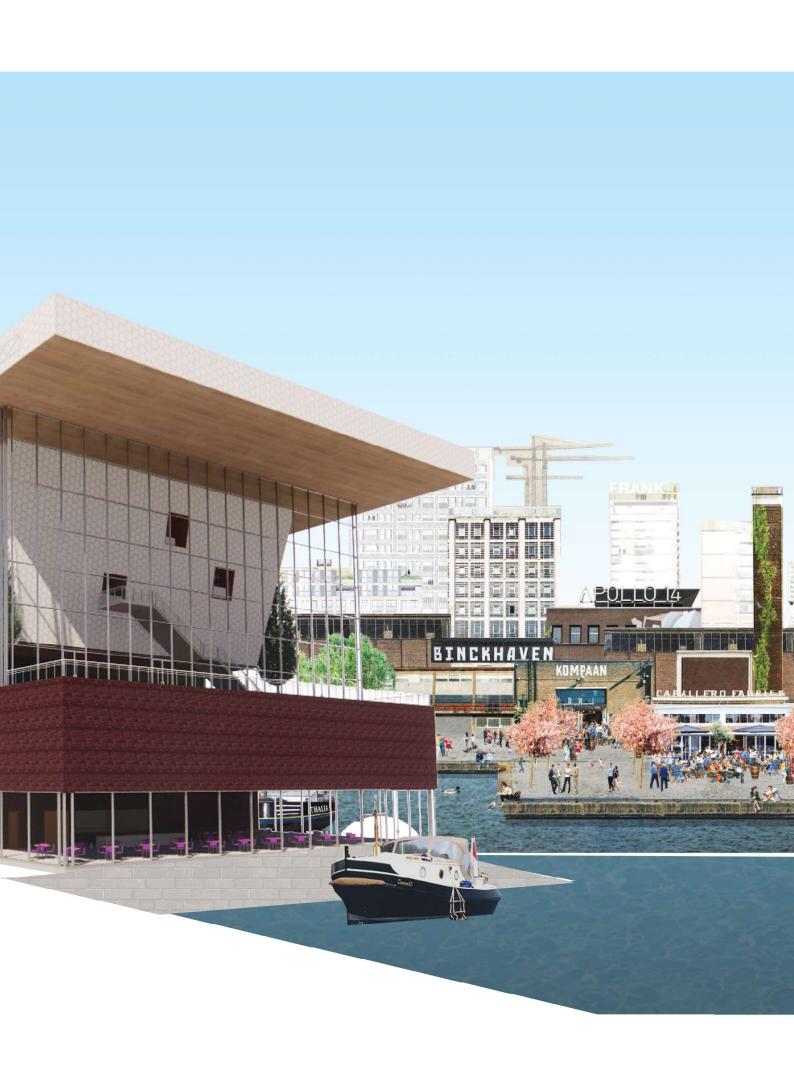


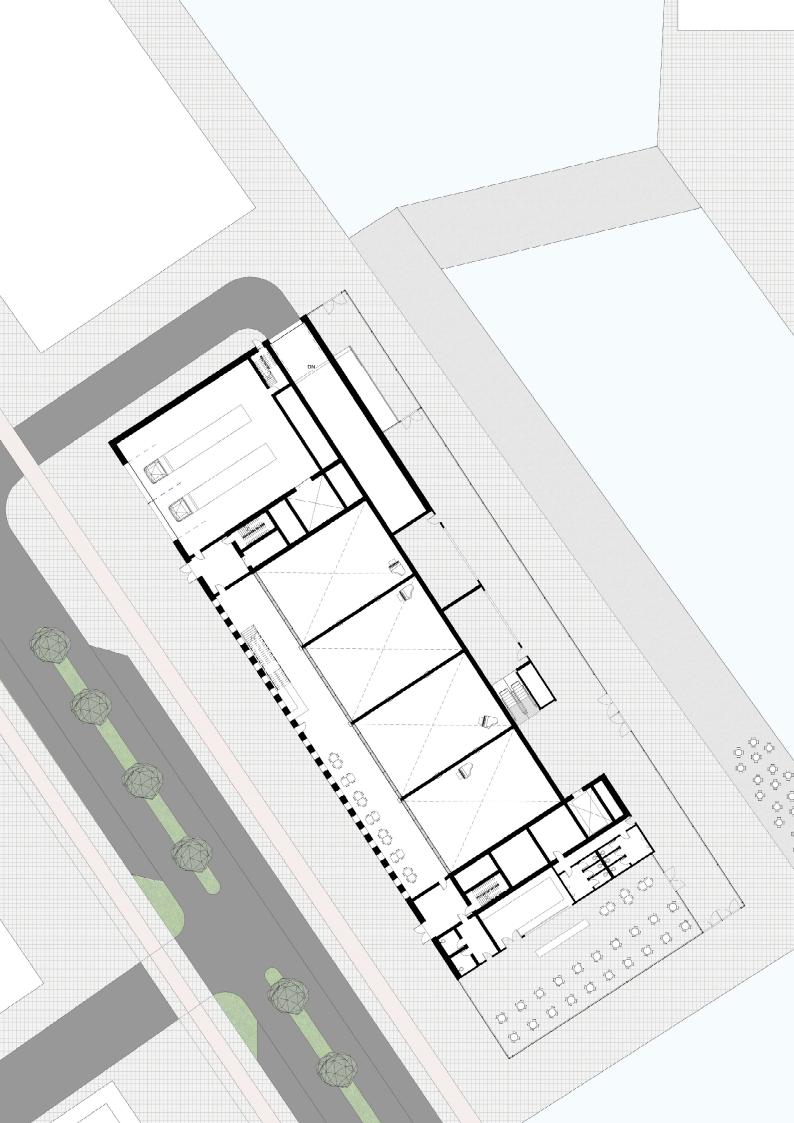


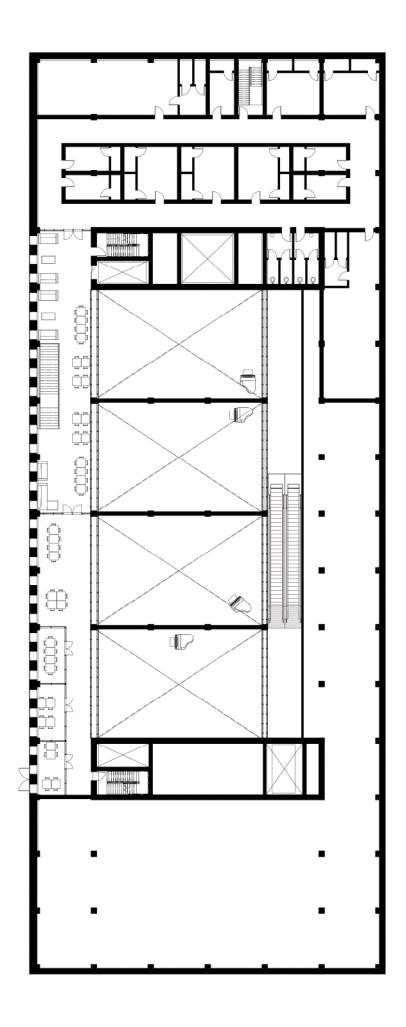
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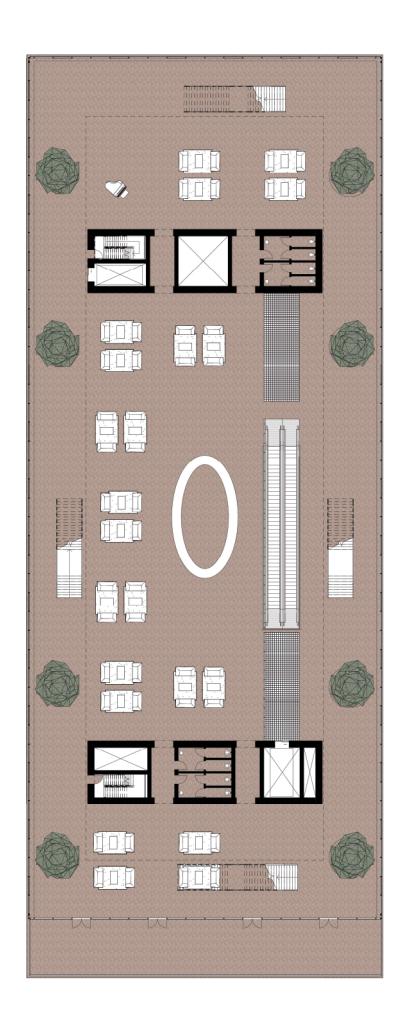
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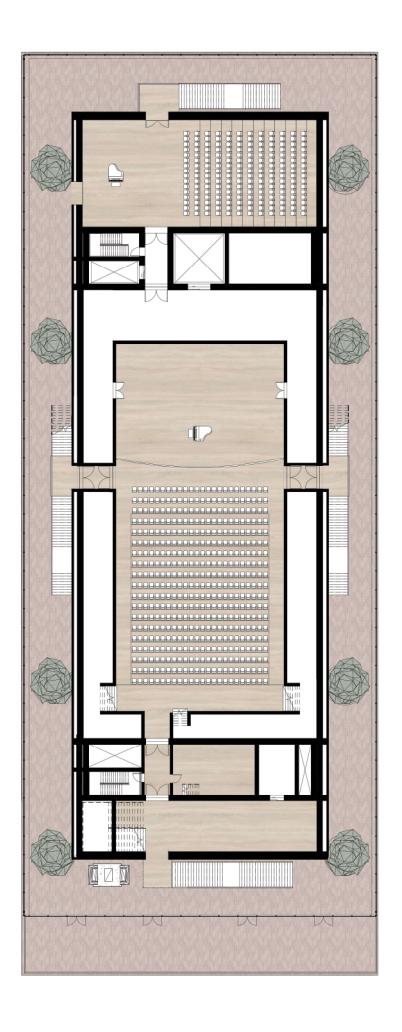


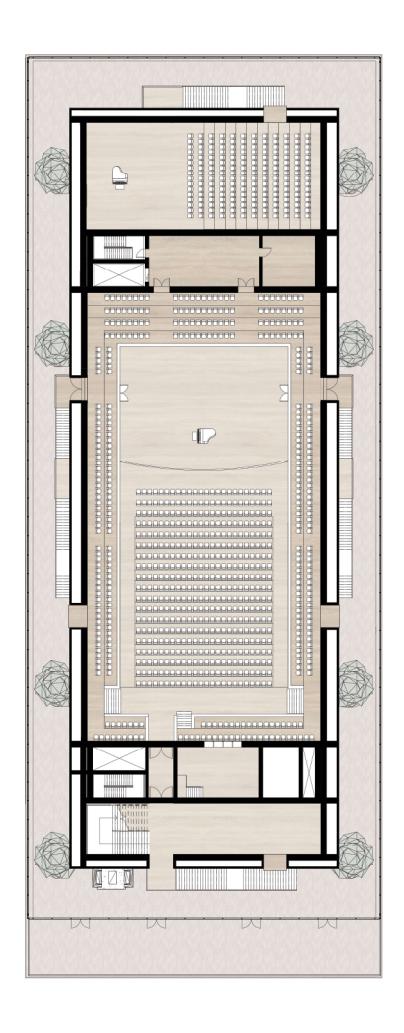


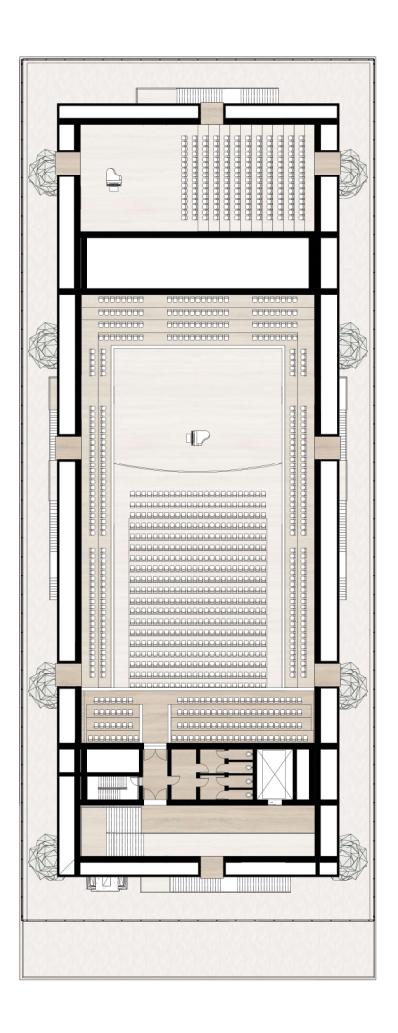


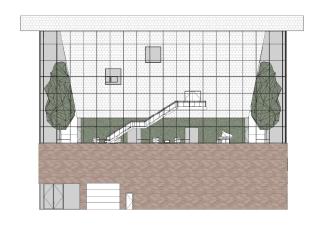


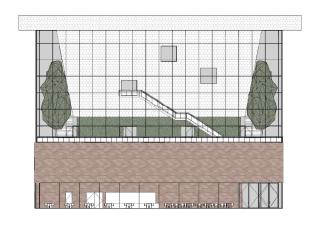


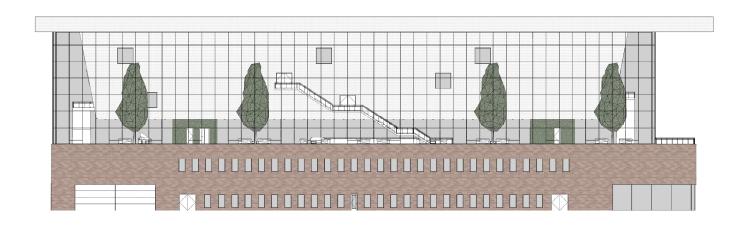


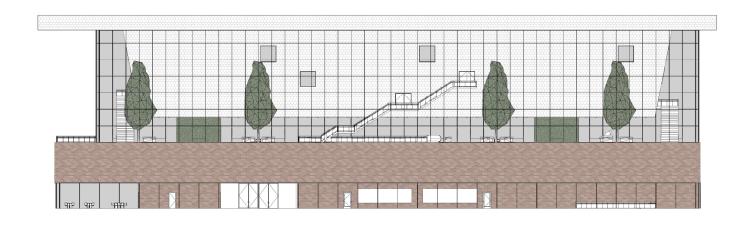


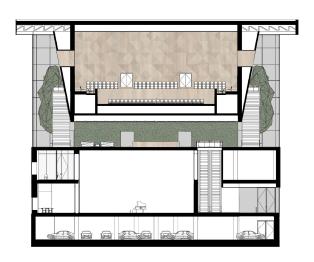


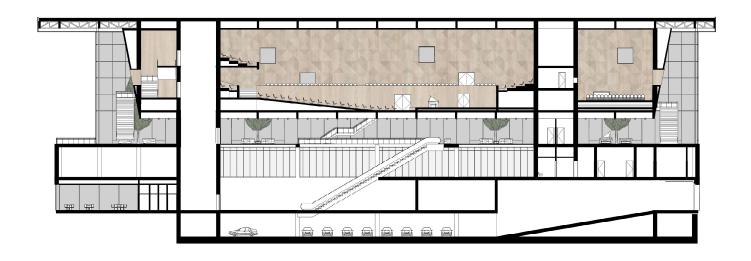


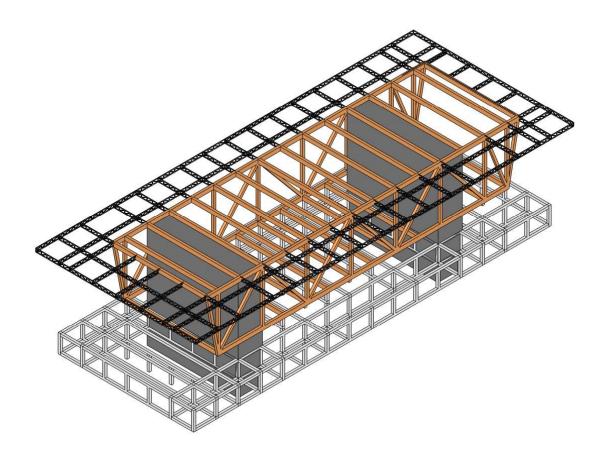


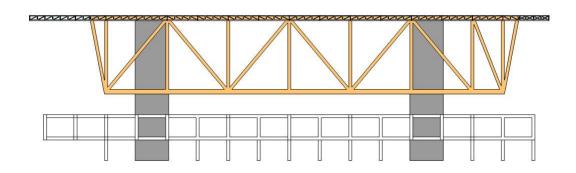


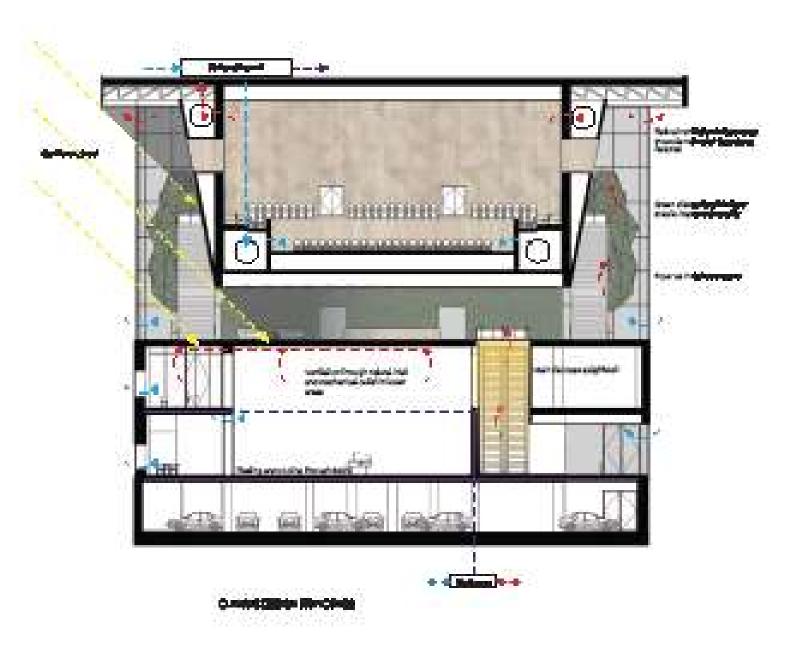


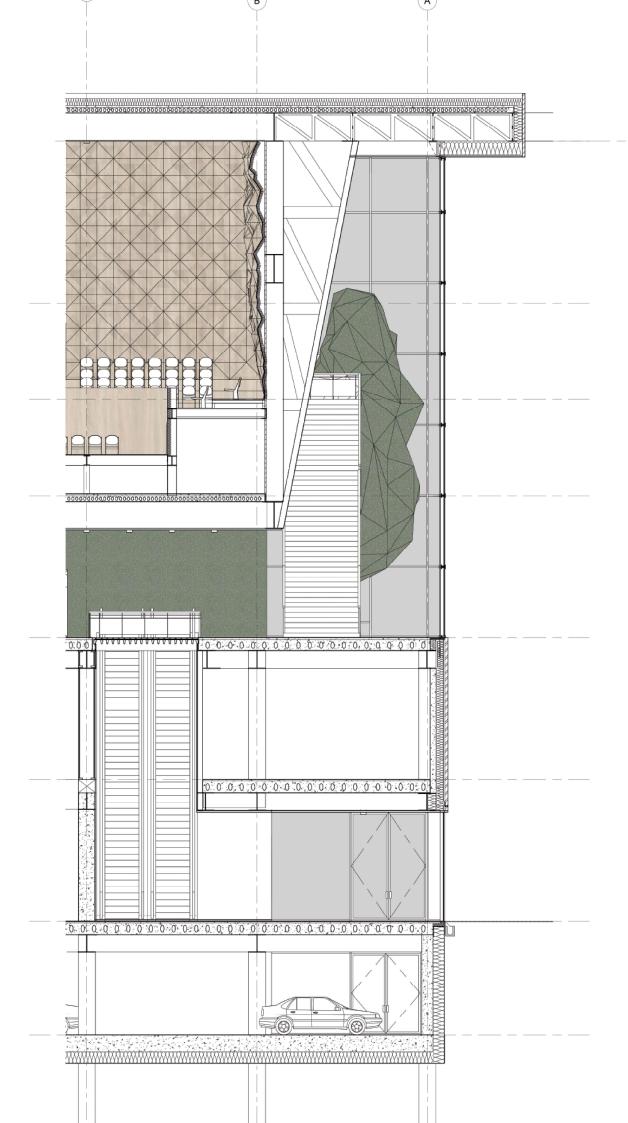


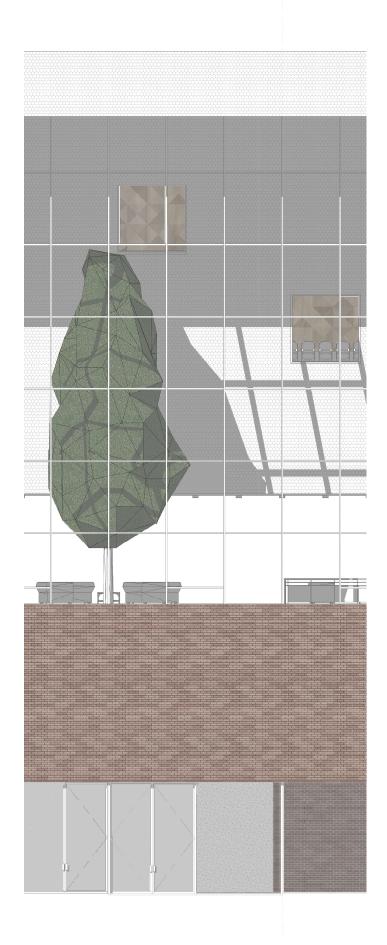


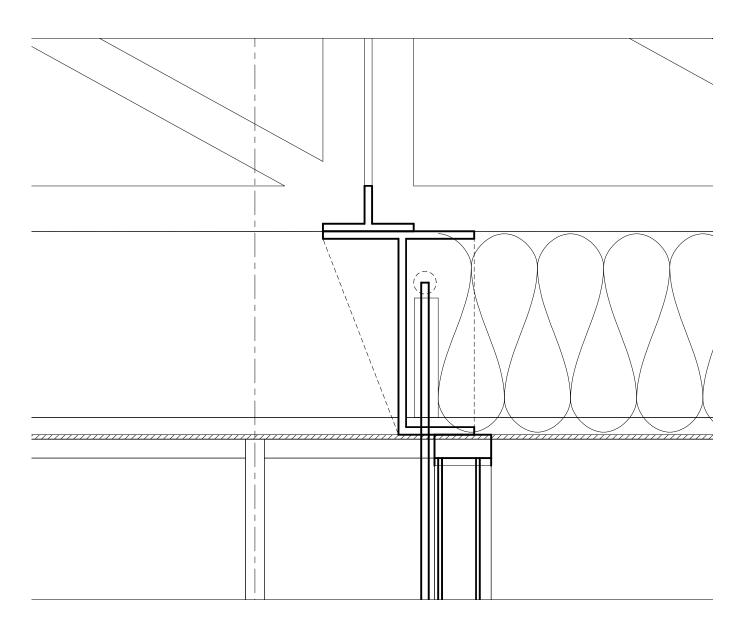


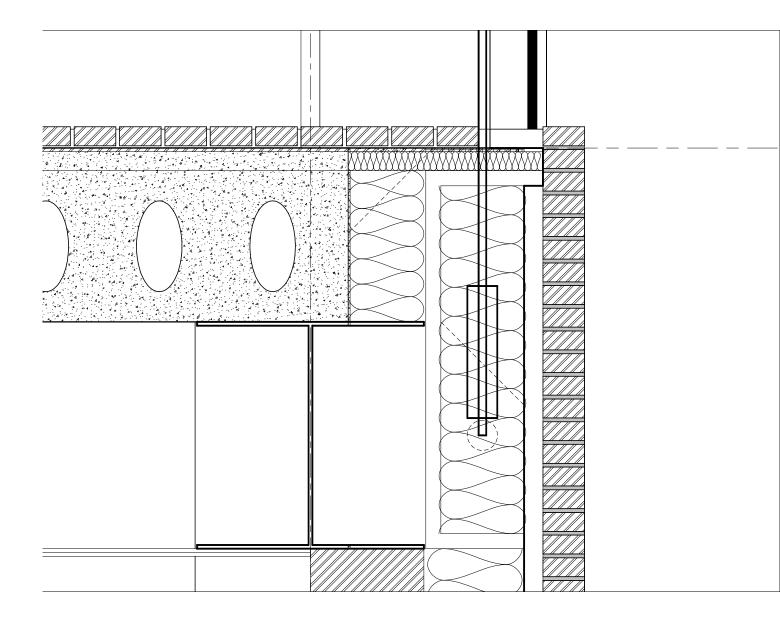










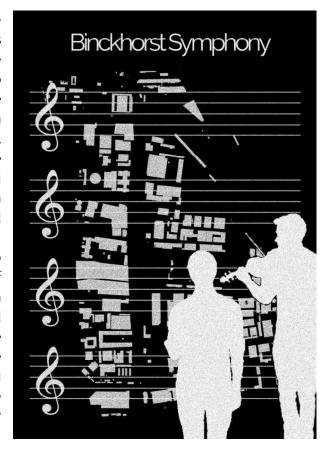






Reflection

From my personal interest in architecture and classical music, the Public Buildings graduation studio felt like a natural choice for me when the opportunity arose to design a Music Marvel. The theme of the studio, City, Culture, Connection, focuses on the role of music venues within the city. Public buildings in general can enrich the area in which they are built by activating their surrounding area. Cultural activity, in addition, has the ability to express and enhance the identity of the neighbourhood, creating a sense of place that is unique to each location. To enhance the concept of multiplicity within architecture, not only can we create multifunctional spaces, but add new layers of meaning as well. Within the built environment, we can express the common identity of the city, connecting the people within it to the location. The question therefore arose in what way architecture can express this local culture.



With the design of the Music Marvel during the last months, I have been operating within the realms of both music and architecture. Both disciplines are very different in their respective mediums. Architecture primarily deals with space, while music deals with sound. Both however, have the power to move people emotionally and carry across different messages. In addition, similarities within organisation, structure and the practice of both exist.

During the exploratory phase, my fascination led more and more towards reading the Binckhorst area as a musical composition. Looking through the lens of both an architect and a musical composer, people become musicians within an orchestra. Activities are musical solos within a symphony. The built environment becomes the score that dictates the whole concert. As a listener, you yourself become both the listener, as well as a musician. Through the manifesto, I have tried to express this.

As an additional way to impose a deeper meaning within the architecture of the Music Marvel, I have explored the connection of both disciplines similar to the practices of architects like Vitrivius, Dudok, Libeskind and others.

Within this spirit, the question arose in what way the identity of the Binckhorst area can be articulated through the musical and architectural expression of the music venue.

Throughout the last months, I have noticed I usually like to think through many possibilities before coming up with a design to answer a question. This results in a process in which the design of the building is developed further through large iterations, each trying to answer the central research question in a better way. Especially after P2 and P3,

large changes have been made within the design. Points of friction between the concept and the architectural scheme led to radically different designs at each point. During the process, I have tried to redefine the design to fit the original concept, using elements from the theoretical musical components as defined in the theory research and their connection to architecture.

Important are some of the case studies researched during the first phase of the studio, especially the Royal Festival Hall (Matthew, London, 1951) Muziekgebouw aan 't IJ (3XN, Amsterdam, 2005) and Elbphilharmonie (Herzog & de Meuron, Hamburg, 2017). During the design process, spatial concepts of these buildings have been integrated within the design, testing to see if these solutions were applicable for the Binckhorst Symphony.

In order to "compose" the building, the original idea arose to organise the building like the four movements of a musical symphony. While this idea is still there and can be clearly distinguished within the design, the way in which each movement has been developed has changed over time. The feedback made me think about different design solutions and new perspectives for the music marvel. I used the feedback to further develop the design and appreciated the given feedback.

Classical music is traditionally composed as a forced sequence of music through time. Musicians and listeners have no say in the way musical elements follow each other. In a building, however, visitors can move freely throughout the space. It is impossible to set a specific experience to the way each movement unfolds. Within the Binckhorst Symphony, the focus during the process has therefore been mostly on the activities and different atmospheres within each zone.

As I began the design, the idea of "composing" the symphony was really to create a sequence in a melodic line, in which architectural elements follow up on each other. However, during the design process, this idea has shifted towards a more modern type of composition, in which different musical elements can be shifted around. Classical music is in this sense more about a strict movement, while spaces also allow for people to hold still within one location. Within the music - or space when talking about architecture - it is therefore more important to create a specific atmosphere than to create an enforced melodic sequence of tension and relaxation. Less of the music is set in stone, but more of an atmosphere is created which provides a framework for the visitor to take the space of a musician and to create their own music collectively. Even more than the spatial design, programming of the space has played an important role in this aspect. The role of the visitors as musicians can be directed by suggesting specific activities. Where do people behave like an orchestra working together, and where does it turn into a cacophony in which everyone plays their own solo? By the way people behave, it can either create a lively, calm and focussed, joyous or euphoric atmosphere that corresponds with the character of the different symphonic movements. Musical elements like key, tempo, volume and instrumentation can help to create this atmosphere. In the design of the building, this is done mostly through the large architectural volumes that define the spaces, materials used within the space and the dimensions of constructional elements.

While treating the building segments as separate, somewhat like a cadavre exquis, the constraints of the plot toward the building size made it difficult to really shape the different parts while simultaneously creating meaningful, coherent spaces. Especially in the second

and third movement this became clear. In addition, transitions between different movements have been changed from hard transitions into a more fluid, continuous space.

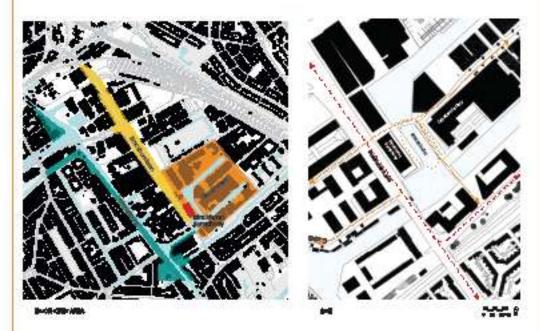
Composers regularly used and developed on folk tunes from specific regions. Originally, I therefore intended to use specific elements from the Binckhorst area. This however, quickly changed. Now, the Binckhorst forms a backdrop for the interior spaces as the Music Marvel frames the different elements. The relationship between interior and exterior allows for the Binckhorst to come into the building and engage with the visitor. The activities within the Binckhorst area are continued within the plinth of the building. As the position of the visitor changes, it can discover different elements within the area. On the ground floor this means the Binckhorst extends to within the building. On the second floor, the public plaza with views all around mostly forms a viewing platform and shows the Binckhorst from another angle. This makes it possible to reflect upon the area.

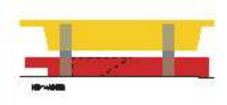
For me, the last months have made me understand in a different way the relationship between architecture and music. While the built environment can indeed be read like a musical score with rhythm, volume, instrumentation, the real music only comes to be when users fill the space with activity. Not only is the user of public spaces there to listen, but must also actively participate within the orchestra. By expressing implicit values within the architecture and acting upon it together, the public can really make music. I have learned that, as an architect, you cannot enforce a specific idea or sequence of actions. People are always free to improvise to some extent. However, you can create the conditions to which the orchestra can comfortably play and create the "sound" of your ideas.

J.

Posters



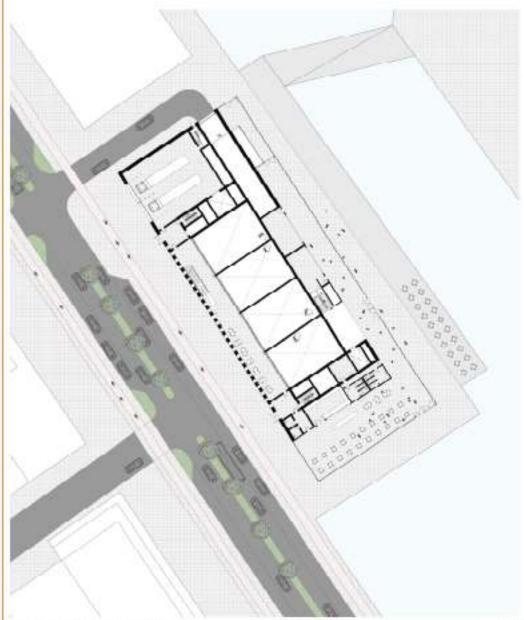














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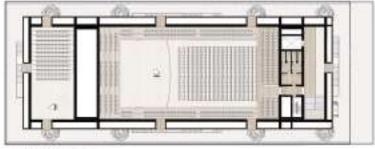




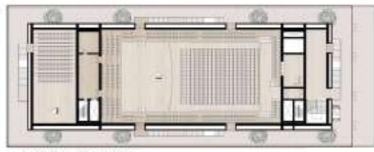
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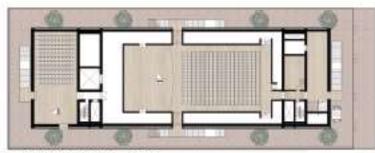
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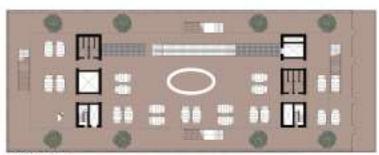
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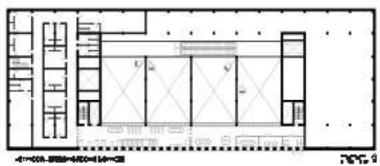
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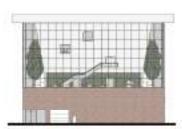


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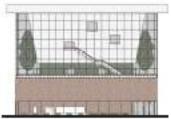


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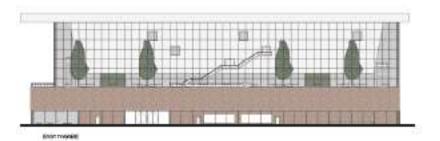
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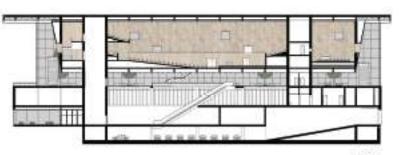


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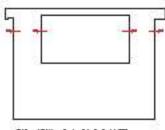


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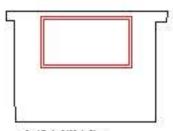


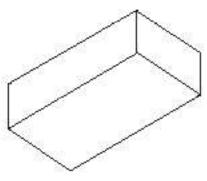


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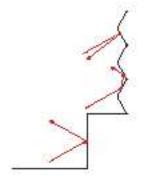


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