# **Mediating Religious Elements**

Collective memory of religious spaces to incentivise the transformation of decommissioned churches

## P5 Presentation

AR3AH115 Revitalizing Heritage: Zero Waste Church

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# Saint Augustinus Church

Nieuwendammerdijk 227, 1023BJ, Amsterdam Noord Built in 1889 Designed by Alfred Tepe

Church Rectory Residential



2014 The church is decommissioned 2014-2019 Decide to construct apartments church The squatters took over the church

"In mid-February, a group of squatters moved into the church, who had already spent about was vacant for four years. The new residents heralded by way of greeting to the near the church bells. They also had four years dust cleaned."

#### The squatters host function for the community

"We are turning the church into a cultural community center. We leave it up to the neighborhood to organize what they want. Think of music performances, poetry, meditation or yoga evenings. But the church could also be used again for services. The pastor has stopped by and was thrilled."

Local residents of the church draw up a petition advocating for the extension of temporary residence. In April the squatters are evicted

"That way the building is managed. And that's good, because vacancy is not good for the building or for the neighborhood,' the website states."



### The Neighborhood: A Community The people of Nieuwendammerdijk has come together multiple times since its decommissioning to save the church



The church is rented out for events and meditation sessions are held for financial benefit

# **Collective Memory**

Collective groups of people hold memories that would constitute their collective identities which could contribute a sense of togetherness. The experience of place is, within the realm of architecture, in a sense made of memories of previous visits and expectations of what it could be.<sup>1</sup> For a church, such a process of building of emotions has already happened and brought to a standstill as the church shuts down.

<sup>1</sup> Juhani Pallasma and Marc Treib, "Space, Place, Memory and Imagination:The Temporal Dimension of Existential Space," in Spatial Recall: Memory in Architecture and Landscape (New York, NY: Routledge, 2009), 17.









## Value Assessment

A study was done with respect to the church its perception. Here, the responces are compared to the documents available



### The elements inside the church

"When **the bell** to call everyone to the church as a neighborhood, it brought all of us together. We went over for tea and looked at the church after our years"

"The church is very intriguing. It smelled like frankincense when we first opened the church after it was closed for so long."

"When we come here on Sundays, it really feels like the old days when the church had the pub before it closed."



### The church and its environment

"One night I half woke up and unconsciously lay counting the number of strokes of the clock. When I got to 30 it dawned on me that something wasn't right. The clock had run out. It took more than half an hour for someone to turn it off."

"The next door neighbor, who is now deceased, was the sexton. The church bell was often broken, so I suggested starting a fundraiser for repairs. I still miss the striking of the hours now. He didn't do anything about it, unfortunately."



























a 'Zero-Waste' setting

Conservation of the architecture of the Church





The church sits between two programmatically opposing zones, the industrial marina and the residnetial areas to the North and on the Nieuwendammerdijk



### Social Sustainability

The church is very visually accessible from the walk on the dam. This thus could be an opportunity to connect the two bodies of water, one more commercial and one more residential.





**Social Sustainability** Ability to bring together the people of the surrounding areas from artists, craftsmen, photographers and more.

FInding ways to introduce people into the church to prevent it from going into disuse.

#### Social Sustainability ..... Neo-Gothic Religious Church and Creating Community Engagement their Introduction

People came together to build the church and raise funds for its construction and maintenance

Sense of belonging





Participation



Construction -

construction



## Utilisation of Spaces

Role of the Architect





**Types of Community Participation** 



#### Mangerial crew:

This group will be made of people who Ò will mainatain and update construction timelines, material storage and keep and account of all volunteers. This is overseen by the architect.



The group focused on construction

will be made of volunteers who have

a prior knowledge of constrcution

techniques and means of demolition

and harvesting. They will help from

**Construction Crew:** 

stage 1 to 3.



#### Fabrication Crew:

This group will work in the fabrication lab in the rectory and work with metal and timber eleemnst harvested from the church. They will be formed of people who have knowledge of equipment in wood and metal workshops who will then teach the other volunteers hwo to use the equipment. They will together create the various design elements in the church.



## • Assembly Crew:

This group will be brought in at stage 5 to assemble and put together the element created by the fabrication crew. Their work will be concentrated in the church and focus mainly on connecting the elements to form the whole usable space.

The Building Manual



Demolition and Preparation Insulation of the skin Assembly of units of site

Page 26

Utilisation of Spaces



Page 27

Utilisation of Spaces



**Removal of windows and inserting reinforcements** The stained glass windows are sent for restoration. H-Beams harvested from the floor are reused in the support for the new openings



### Cut-outs made by the removal of walls and floor elements

Connection to the outside and penetration of light is prioritized in this stage and wall and floor segments are removed.



Materials are removed from the building and stored in the rectory. This will either be used in the construction or for future use.



**Use of the Rectory** The rectory is converted into a fabrication space on the ground floor. This is then used for the construction of all units for the design.



Page 32

Utilisation of Spaces



**Removal of windows and replacement on skin** This step involves the insertion of the new double glazed windows with

a wooden frame and damp open floor with drainage



West Side Aisles Windows











Stained Glass Windows (16 nos)

Frosted Glass Windows (17 nos)

## **Removal of windows**

The reasons for removal of windows are based on the existing condition of the window and its impact on the interiors

Page 34

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Altar Windows



## Material Concept and New glass usage

Most of the stained glass windows are warping after years of neglect. They also are single paned and do not provide enough insulation.





## Insulated Stained Glass windows and New glass windows

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### Insulated Triple Glazed stained Glass Window:

3 Plane Glass panel Leaded glass pane with Y-Lead

Frame Components: 114x68 glulam wooden CnC routed Frame 25x114 wooden sill



### Insulating the Roof The slate roof is repaired and isolated with friction fit hempwool insulation with wooden batons in a damp open form





Insulating the Roof The slate roof is repaired and isolated with friction fit hempwool insulation with wooden batons in a damp open form

# Phased Construction process



Utilisation of Spaces



### **The Fabrication Lab**

The ground floor of the rectory is used for the creation of all design interventions. These are then moved into the church for assembly and installation. The furniture is also restored here and then reused in the transformed church.







## Assembled Units

Each unit is made independent of the existing structure for ease of assembly, demountability and disassembly



**Assembled Units** Each unit is made independent of the existing structure for ease of assembly, demountability and disassembly



**The Workshops** A Timber frame structure with timber walls and floors are fabricated in the fabrication room and then transported to church floor for assembly.



### Preparation of the Site:

The church is prepared for the introduction of new elements. Furniture is removed and wooden flooring is stripped.

### Timber structure:

The timber structure made of reclaimed wood is built in such a way that it stands separate from the old structure.

### Creating a Floor:

The skin is placed on the structure with flooring and heating connected to the heat pump.

### Extension and vertical circulation:

Baseboard heating and balustrades are created and then enclosed in plywood pieces.

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### Infill Walls:

The workshop spaces are enclosed in a series of timber frame walls. This divided the workshop from the performance spine.



For disassembly and reuse of elements in the future case of disuse, each element is joined with minimal intervention



**Demountability** For disassembly and reuse of elements in the future case of disuse, each element is joined with minimal intervention



### Harvested Material Type:

- from Church
  - from around Amsterdam

**Demountability** All units created in the fabrication space will be made and assembled in the church by the community







### "Amsterdam --Reclaimed:

1)20x1210x2440 Plywood

2)55x155x4500 Spruce Beam Rough

3)25x120x4500 Spruce Beam Rough

4)110x155x4500 Spruce Beam Rough

### Amsterdam ..... Organ 1: by Sybrand Adema

Organ 2: by Jan Wisse Clocks: J.H. Addicks and Zn.

### Den Haag ..... Side Aisle, stained

glass window: by Gisèle Waterschoot van de Gracht

### Valstreek .....

**Brick:** factories for 25 percent of the bricks

### Material Strategy

Any new material is sourced from Amsterdam with respect to the circularity strategy. Materials are hemp or timber based.



80

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Apse stained glass window: by Van vv en Willemse



**Material Strategy** Any new material is sourced from Amsterdam with respect to the circularity strategy. Materials are hemp or timber based.



		Structure	Noise	
Fine Arts Zone	Textile Photography Printmaking Literature	LOW	HIGH	
Fine Arts Zone	Painting Sculpture	LOW	LOW	
Fabrication Zone	Metal Workshop Wood Workshop	HIGH	HIGH	
Culinary arts	Community Kitchen Eating Zone	LOW	HIGH	
Performance arts	Music Hall Stage	HIGH	HIGH	

Scale:	HIGH	LOW
Structure	new structural intervention	no intervention requir
Noise	НІ <b>G</b> Н 80-120 dв 	LOW 0-80 c
Access	PUBLIC Shared activities	INDIVIDUA independent activition

**Functional Zoning** Every form of art and craft is matricised based on the amount of structural intervention, amount of noise created and public access





Functional Space

**Functional Zoning** Each workshop and communal space is defined with respect to the closed and open areas



Mezzanine Level Plan Plan 1:200



Upper Ground Floor Plan Plan 1:200 Lower Ground Floor Plan Plan 1:200 Upper Ground Floor Plan Plan 1:200

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Mezzanine Level Plan Plan 1:200



Upper Ground Floor Plan Plan 1:200 Lower Ground Floor Plan Plan 1:200 Upper Ground Floor Plan Plan 1:200

# Heated Closed Area

Unheated Open Area

### **Climate Strategy** The church is completely insulated. The floor heating creates a stable temperature while the church has closed and unheated areas.



### Mezzanine Level Plan Plan 1:200















**Collapsible Wall System** These walls are made of a mosaic of different doors collected from the rectory and as such create a collage of doors of different colours, textures, heights and widths



Heated Closed Area Unheated Open Area Heated Open Area **Climate Strategy** The church is completely insulated. The floor heating creates a stable temperature while the church has closed and unheated areas.



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### **Climate Strategy**

Floor heating creates a stable temperature of 18 degree celcius and baseboard heating units can be switched on when required.



**Climate Strategy** Heat Pump is used for the floor heating system which also uses the rainwater harvested, stored and treated within the church



Heat Pump is used for the floor heating system which also uses the rainwater harvested, stored and treated within the church

Phased Construction process

Demolition and Preparation of site

Insulation of the skin

Assembly of units

Page 66

# Utilisation of Spaces

Fixed and Flexible Areas

Adaptable Zones

----- The Performance Area

Everyday life of the building



### **Functional Zoning**

The church holds functions based on different forms of art and creates a series of spaces where people of different walks of life come together to create



**Functional Zoning** The workshops are divided into fixed and flexible spaces where programme does not create a conforming boundary for the design



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**Functional Zoning** The workshops can be read as darka nd light spaces based on the function held within it.



### Existing Brick Walls



### **Plastered Walls**



### CnC routed Window Frames



**The Staircase** Concepts of flexibility are extended to the performance spine through a plethora of adaptable areas such as the stage and stairs


**Functional Zoning** Concepts of flexibility are extended to the performance spine through a plethora of adaptable areas such as the stage and stairs



Staircase as a Space for movement

Staircase as a Space for viewing performances



**Adaptability: Stairs** The stairs are divided into three segments. The side segment is the repeatable standard for all staircases. It is made of reclaimed plywood and harvested timber panel doors from the rectory



**The Stage** Concepts of flexibility are extended to the performance spine through a plethora of adaptable areas such as the stage and stairs



Adaptability: Stage The stage is a flexible space that accommodates theatrical expression when it is in the open position with anchors, platforms and steps



## **Adaptability: Stage** The stage becomes a gathering space, when it is in a closed position. It becomes a connector between the outside and inside and a space for movement

Page 78



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O 000 Utilisation of Spaces



## **Adaptability: Stage** The stage is a flexible space that allows for democratic artforms which can create a series of connections for composite scene creation



Adaptability: Stage The stage is a flexible space that allows for democracy in artforms which can be created throuygh a series of connections for composite scene creation





Good Morning! How are you today? Is this a church? Can you tell me what has happened to the old church?

Hello! I am a furniture restorer. The church is now an artisan and craftsman centre. I came to the church to see the transformation and got really invested in the process.



I went to the information center which had books and other resources on transformation of heritage buildings.

Any of the work we create in the studio classes, we display in the exhibition space. It attracts a

lot of people around the neighborhood.

When I first came to the church, they were if I can join and help



restoration and conservation.



## **Information Centre** The programme within the church requires a degree of flexibility as it becomes a teaching centre for the artisanal and craftsmanship based trades





Mediating Religious Elements Collective memory of religious spaces to incentivise the transformation of decommissioned churches Apendix



Workshop Spaces The Isolation of the church as an object is broken through the creation of visual transparency from within the church structure to the outside



**Circularity Strategy** From a site level, every energy, nutrients and water cycles are treated from a stand point of self sufficiency





Zoning division, Structure and compartments 1:100 section showing the closed, semi-open versus open depicting degrees of control



Experience Map The experience of the religious elements are based on the workshop and how people perceived them



View of the vertical circulation and nave

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View of the Art Workshops

