THE PLACE OF ALL
PERSONAL INFORMATION

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EMAIL ADDRESS: futurafalco@gmail.com

STUDIO

THEME: Border, the architecture of violence
MAIN TUTOR: Mitesh Dixit
TEACHERS: Hrvoje Smidihen, Sven Jansse, James Westcott

ARGUMENT OF CHOICE OF THE STUDIO: The interest in the theme of border condition and how this is reflected in the social and urban environment

PROJECT: poli-liturgical centre

TITLE OF THE GRADUATION PROJECT: THE PLACE OF ALL
1. INTRODUCTION

- COMPLEX PROJECTS BORDER STUDIO ARCHITECTURE OF VIOLENCE
- THE PLACE OF ALL
- DESIGN STATEMENT
- TOPICS

2. RESEARCH

- BORDER CONDITION
- BORDER CITIES
- BORDER STRIP
- URBAN-URBAN CONDITION
- RELIGION

3. DESIGN PROCESS

- TANGIBLE/UNTANGIBLE
- PROGRAM
- SITE
- CONTEXT
- FLOWS
- SCULPTURE

4. DESIGN

- ATMOSPHER SCENARIO
- FINAL OUTPUT
- TECHNICAL ASPECTS
- LIGHT AND MATERIALIZATION
- CHRISTIAN CHAPEL ZOOM IN
1. INTRODUCTION
BORDERS
ARCHITECTURE OF VIOLENCE
THE PLACE OF ALL
LITURGICAL CENTRE
LITURGY
LITURGY

“Liturgy is the customary public worship done by a specific group, according to its particular beliefs, customs and traditions”
LITURGY

“It thus forms the basis for establishing a relationship with a divine agency, as well as with other participants in the liturgy.”
DESIGN STATEMENT
“EVERYONE NEEDS A PLACE TO BELONG”
cit. Herman Herztberger
THE SPACE IN BETWEEN

“Division is a spatial condition for meeting and dialogue.”
the architectural proposal approaches the
theme of division and connection using it as a catalyst of relations
and connection which are the actual aim of the city.
TOPICS
Percent in...
Religious adherents

- 50%-75%

Percent in...
Religious affiliation

- 80%
- 16%
- 6%

Attend religious services at least once a week

- 4 in 10

Pray or read scripture with their children

- 6 in 10

Pray at least once a day outside religious services

- 6 in 10

Speak or pray in tongues at least occasionally

- 2 in 10

Religion
Iglesia Cristiana "LA GLORIA DE DIOS" le invita a los cultos

VENID A MI T elegant;

DOMINGOS
Culto General 11:00 a.m.
Adolecentes y niños 11:00 a.m.

MIÉRCOLES
Estudio Bíblico Adultos 7:00 p.m.
Adolecentes y niños 7:00 p.m.

JUEVES
Culto de Alabanza
Culto de Alabanza para Jóvenes 7:00 p.m.

VIERNES
Culto divertido para niños 7:30 p.m.

MARTES
11:25
DEVOCIONAL
TODOS LOS DIAS 6:00 a.m.
Oración de intersección 9:00
DIMENSIONING PROGRAM

1. SANCTUARY: 4000 M²
2. WORSHIP: 2000 M²
3. CHAPEL: 1000 M²
4. MEDITATION CENTRE: 1500 M²
5. CONFERENCE HALL: 2500 M²
6. CAVEA: 1500 M²
7. CULTURAL CENTRE: 2500 M²
8. SUNDAY SCHOOL: 1500 M²
9. ADMINISTRATION: 1500 M²
10. SERVICE: 1500 M²
1. SANCTUARY
2. WORSHIP
3. CHAPEL
4. MEDITATION CENTRE
5. CONFERENCE HALL
6. CAVEA
7. CULTURAL CENTRE
8. SUNDAY SCHOOL
9. ADMINISTRATION
MASTERPLAN

INTERACTIONS
BORDER CONDITION
THE BORDER ZONING

CITY CLUSTER
THE BORDER ZONING
CITY CLUSTER

CLUSTERS WITHIN THE NEW REGION
Corpus Christi
Houston
San Antonio
Monterrey
Chihuahua
Tucson
Phoenix
Los Angeles
Hermosillo
El Paso / Juarez
Laredo / Nuevo Laredo
Brownsville / Matamoros
McAllen / Reynosa
Piedras Negras
Del Rio / Acuna
San Diego / Tijuana
Calexico / Mexicali
San Luis / San Luis Rio Colorado
Nogales / Nogales
EL PASO-JUAREZ
DEL RIO-ACUNA

THE BORDER ZONING
CITY CLUSTER
THE BORDER ZONING

CITY CLUSTER

Clusters within the new region:
- Corpus Christi
- Houston
- San Antonio
- Monterrey
- Chihuahua
- Tucson
- Phoenix
- Los Angeles
- Hermosillo
- El Paso / Juarez
- Laredo / Nuevo Laredo
- Brownsville / Matamoros
- McAllen / Reynosa
- Piedras Negras
- Del Rio / Acuna
- San Diego / Tijuana
- Calexico / Mexicali
- San Luis / San Luis Rio
- Nogales / Nogales

Zoning city clusters:
- NOGALES
- EL PASO-JUAREZ
- DEL RIO-ACUNA
THE BORDER ZONING
CITY CLUSTER

CLUSTERS WITHIN THE NEW REGION
- Corpus Christi
- Houston
- San Antonio
- Monterrey
- Chihuahua
- Tucson
- Phoenix
- Los Angeles
- Hermosillo
- El Paso / Juarez
- Laredo / Nuevo Laredo
- Brownsville / Matamoros
- McAllen / Reynosa
- Piedras Negras
- Del Rio / Acuna
- San Diego / Tijuana
- Calexico / Mexicali
- Nogales / Nogales
- EL PASO-JUAREZ
- NOGALES
- CALExico-MEXICALI
- DEL RIO-ACUNA

CALEXICO-MEXICALI

NOGALES

DEL RIO-ACUNA
THE BORDER ZONING
CITY CLUSTER
BORDER CITIES
NEW URBAN CLUSTERS
BORDER CITIES
CITY CLUSTERS

DEL RIO-ACUNA

NOGALES

CALExico-MEXical

EL PASO-JUAREZ

SAN DIEGO-TIJUANA
### Border Cities

#### City Clusters

<table>
<thead>
<tr>
<th>City</th>
<th>City Diagrams</th>
<th>Growth by 2050</th>
<th>Identity</th>
<th>21 Mile City Radius Potential</th>
<th>New Regional Identity</th>
<th>Border Strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Diego-Tijuana</td>
<td><img src="image" alt="San Diego-Tijuana" /></td>
<td>50% 2,018,000</td>
<td>🟢 sea port and tourist city</td>
<td>🟢 international sea port</td>
<td>🟢 port</td>
<td>the new international sea port is the in-between zone and shared economic interest of San Diego and Tijuana</td>
</tr>
<tr>
<td>Tijuana</td>
<td><img src="image" alt="Tijuana" /></td>
<td>50% 1,950,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calexico-Mexical</td>
<td><img src="image" alt="Calexico-Mexical" /></td>
<td>50% 58,500</td>
<td></td>
<td>🟢 agriculture center</td>
<td></td>
<td>the city limits are defined by the edge of Mexicali and the 21 mile agriculture zone on the north which becomes and essential part of the city</td>
</tr>
<tr>
<td>Mexicali</td>
<td><img src="image" alt="Mexicali" /></td>
<td>50% 1,035,000</td>
<td></td>
<td>🟢 agriculture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nogales-Nogales</td>
<td><img src="image" alt="Nogales-Nogales" /></td>
<td>50% 31,500</td>
<td></td>
<td>🟢 industrial city / transportation hub</td>
<td></td>
<td>the city of Nogales becomes &quot;trapped&quot; inside the border and becomes a longitudinal in-between zone attached to the interstate highway</td>
</tr>
<tr>
<td>Nogales</td>
<td><img src="image" alt="Nogales" /></td>
<td>50% 330,000</td>
<td></td>
<td>🟢 industry + mobility route</td>
<td></td>
<td></td>
</tr>
<tr>
<td>El Paso-Juarez</td>
<td><img src="image" alt="El Paso-Juarez" /></td>
<td>100% 1,350,000</td>
<td>🟢 &quot;unified&quot; city</td>
<td>🟢 center of the region</td>
<td></td>
<td>the existing in-between space is turned into a buffer zone between 2 countries that is filled with social and cultural content which transcends the gap</td>
</tr>
<tr>
<td>Juarez</td>
<td><img src="image" alt="Juarez" /></td>
<td>100% 2,640,000</td>
<td></td>
<td>🟢 the compactness of the city</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Del Rio-Acuna</td>
<td><img src="image" alt="Del Rio-Acuna" /></td>
<td>50% 53,000</td>
<td></td>
<td>🟢 national park</td>
<td>🟢 national park city</td>
<td>the national park and watershed becomes an important part of city's functioning. Nature is what connects Del Rio and Acuna</td>
</tr>
<tr>
<td>Acuna</td>
<td><img src="image" alt="Acuna" /></td>
<td>50% 218,000</td>
<td></td>
<td>🟢 national park + watershed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>City</td>
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<tr>
<td>San Diego-Tijuana</td>
<td><img src="image" alt="Diagram" /></td>
<td>50% 2018 000</td>
<td>Sea Port and Tourist City</td>
<td></td>
<td>International Sea Port</td>
<td>The new international sea port is the in-between zone and shared economic interest of San Diego and Tijuana</td>
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<tr>
<td></td>
<td></td>
<td>50% 1950 000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calexico-Mexical</td>
<td><img src="image" alt="Diagram" /></td>
<td>50% 58 500</td>
<td>Agriculture Center</td>
<td>Agriculture</td>
<td></td>
<td>The city limits are defined by the edge of Mexicali and the 21 mile agriculture zone on the north which becomes and essential part of the city</td>
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<td></td>
<td></td>
<td>50% 1 035 000</td>
<td></td>
<td>Agriculture</td>
<td></td>
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</tr>
<tr>
<td>Nogales-Nogales</td>
<td><img src="image" alt="Diagram" /></td>
<td>50% 31 500</td>
<td>Industrial City / Transportation Hub</td>
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<td></td>
<td>The city of Nogales becomes “trapped” inside the border and becomes a longitudinal in-between zone attached to the interstate highway</td>
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<td></td>
<td></td>
<td>50% 330 000</td>
<td></td>
<td>Industry + Mobility Route</td>
<td></td>
<td></td>
</tr>
<tr>
<td>El Paso-Juarez</td>
<td><img src="image" alt="Diagram" /></td>
<td>100% 1 350 000</td>
<td>“Unified” City</td>
<td>Center of the Region</td>
<td></td>
<td>The existing in-between space is turned into a buffer zone between 2 countries that is filled with social and cultural content which transcends the gap</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100% 2 640 000</td>
<td></td>
<td>The Compactness of the City</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Del Rio-Acuna</td>
<td><img src="image" alt="Diagram" /></td>
<td>50% 53 000</td>
<td>National Park City</td>
<td>National Park + Water Shed</td>
<td></td>
<td>The national park and watershed becomes an important part of city's functioning, nature is what connects Del Rio and Acuna</td>
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<td></td>
<td></td>
<td>50% 218 000</td>
<td></td>
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</table>
BORDER CITIES
TRANSBORDER REGION

CALEXICO-MEXICALI
BORDER CITY
CALEXICO/MEXICALI
NEW DEFINITION OF THE CITY
BORDER STRIP
CALEXICO-MEXICALI CLUSTER
THE BORDER STRIP
THE BORDER STRIP
CONDITIONS

INFRASTRUCTURE

URBAN

AGRICULTURE
THE BORDER STRIP
SITE PLAN IMPRESSION
THE BORDER STRIP
URBAN-URBAN CONDITION

ATTRACTION

- Higher Level of Education System
- No Taxes on Religious Institutions
- Convenient Economic Exchange, National Health and Care System
- Lower Prices in the Rent Market
- Dwelling
- Education
- Religion
- Commerce
URBAN-URBAN CONDITION
BORDER ELIMINATION

EDUCATION

RELIGION

DWELLING

COMMERCE
URBAN-URBAN CONDITION
NEW BORDER IDENTITY
RELIGION IN THE REGION
ISSUE OR CHALLENGE
Go in peace
Serve the Lord
RELIGION IN THE REGION
BORDER REALITY

Education

Hope
RELIGION IN THE REGION
BORDER REALITY

CAUSE OF INTEGRATION
Iglesia Cristiana "LA GLORIA DE DIOS" le invita a los cultos

Domingos
Culto General 11:00 a.m.
Adolescentes y niños 11:00 a.m.

Miercoles
Estudio Bíblico Adultos 7:00 p.m.
Adolescentes y niños 7:00 p.m.

Jueves
Culto de Alabanza para Jóvenes 7:00 p.m.

Viernes
Culto de Alabanza y oración 7:30 p.m.
Culto divertido para niños 7:30 p.m.

Sábado
Devoacional

Todos los días 6:00 a.m.
Oración de intersección 9:00
COLLABORATION
RELIGION IN THE REGION
BORDER REALITY

COMBINATION
OF SACRED AND PROFANE
America, Under GOD
Or Under GROUND!

Defiance P.O. Box 464 Miamitown,
HOW ALL OF THIS COULD HAVE BEEN TRANSLATED IN USEFULL INFORMATION?
But the real issue here is a deeper and more disturbing one. In Farr’s direct, unambiguous language, “A significant proportion of our foreign policy officials no longer believe that religious freedom is the ‘first freedom’ of American history, of the U.S. Constitution, and of all people everywhere.”

satisfactions. Some people go to church or synagogue or mosque; some people go to Camden Yards or Fenway Park; some people keep parakeets. It’s all the same.

Mexicali Muslims find a home

September 23, 2012 | By CHelsey ADAMI | Staff Writer

MEXICALI — Curious passers-by often peek in the window of the new Centro Islámico de Mexicali on Michoacán Avenue, just 15 minutes walking distance from the Calexico West Port of Entry, where at least twice a week, the few but faithful Mexicali Muslims come to pray together.
But the real issue here is a deeper and more disturbing one. In Farr’s direct, unambiguous language, “A significant proportion of our foreign policy officials no longer believe that religious freedom is the ‘first freedom’ of American history, of the U.S. Constitution, and of all people everywhere.”

Catholic Leaders Celebrate Mass Along Border, Pray for Reform

Story by Fernanda Echevarria

LAST UPDATED APRIL 2, 2014

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MEXICALI — Curious passers-by often peek in the window of the new Centro Islamico de Mexicali on Michoacan Avenue, just 15 minutes walking distance from the Calexico West Port of Entry, where at least twice a week, the few but faithful Mexicali Muslims come to pray together.
The Religious Topic Website

Topography of faith

The Pew survey sorts people into major groupings — Christians; other religions, including Jewish and Muslim; and “unaffiliated,” which includes atheist, agnostic and “nothing in particular.” Roll your cursor over the map to see how faiths and traditions break down by state.

Religious affiliations for U.S. adults

United States

**CHRISTIAN**
- Evangelical Protestant: 26%
- Mainline Protestant: 18%
- Black Protestant: 7%
- Catholic: 24%
- Mormon: 2%
- Orthodox: 1%
- Jehovah’s Witness: 1%
- Other Christian: <0.5%

**OTHER RELIGIONS**
- Jewish: 2%
- Muslim: 1%
- Buddhist: 1%
- Hindu: <0.5%
- Other World Religions: <0.5%
- Other Faiths: 1%

**UNAFFILIATED**
- Unaffiliated: 16%
- Don’t Know/No answer: 1%

Sample: 35,556; margin of error: ±0.6%

THE RELIGIOUS TOPIC
DATAS

CALIFORNIA / BAJA CALIFORNIA

ATTENDANCE
50%-75%

FREQUENCY
33% WEEKLY
33% MONTHLY
OCCASIONALLY 33%

AFFILIATION
60% CHRISTIAN
16% MUSLIM
13% JEWISH
11% NONE

AGE RANGE
39% 19-39 y/h
25% 40-64 y/h
16% 65+ y/h
20% 0-18 y/h
THE RELIGIOUS TOPIC
AFFILIATION

- Catholic: 80%
- Evangelic: 16%
- Protestant: 6%
- Black Protestant: 80%
- Mormon: 16%
- Orthodox: 6%
- Jehovah: 6%
- Jewish: 16%
- Muslim: 6%
- Buddhist: 6%
- Hindu: 6%
- Other: 80%
- Unaffiliated: 16%
- Don't Know: 6%
THE RELIGIOUS TOPIC
ATTENDANCE

- Attend religious services at least once a week: 4 in 10
- Pray or read scripture with their children: 6 in 10
- Pray at least once a day outside religious services: 6 in 10
- Speak or pray in tongues at least occasionally: 2 in 10
THE RELIGIOUS TOPIC
COMPARISION TO ROME

CALEXICO/MEXICALI
570 RELIGIOUS SERVICES FOR 800’000 INHABITANTS

ROME
1230 RELIGIOUS SERVICES FOR 2’753 ML INHABITANTS
CALEXICO/MEXICALI
1 RELIGIOUS SERVICE EACH 1’500 INH

ROME
1 RELIGIOUS SERVICE EACH 200’000 INH
3. DESIGN PROCESS
TANGIBLE/UNTANGIBLE
AIM OF THE BUILDING
SIDE ARE SEPARATED BUT THEY GET LIGHT ONLY FROM THE CENTRE

LIGHT COMES FROM THE CENTRE
TANGIBLE
PROGRAM
PROGRAM
GENERAL BRIEF

PROGRAM
SCALE OF REFERENCE


7'000 pop
PROGRAM

SCALE OF REFERENCE

1. SANCTUARY  2. WORSHIP  3. CHAPEL  4. MEDITATION CENTRE  5. CONFERENCE HALL  6. CAVEA
7. CULTURAL CENTRE  8. SUNDAY SCHOOL  9. ADMINISTRATION  10. MASTERPLAN

800'000 pop

L
PROGRAM
PARAMETER

S
M
L
CALCULATION EXAMPLE
PROGRAM
PARAMETER - S CALCULATION

INHABITANTS
S scale

PARAMETER 1
weekly service attendant

PARAMETER 2
affiliation

MINIMUM MSQ
per person

FINAL MSQ

3. CHAPEL

7’000

33%
weekly service attendant

2300

60% - 1300 p
christian

13% - 300 p
muslim

11% - 250 p
jewish

16% - 450 p
none

0.6 msq

1 msq

1 msq

1 msq

820 msq

300 msq

250 msq

450 msq
### PROGRAM
**PARAMETER - S CALCULATION**

<table>
<thead>
<tr>
<th>INHABITANTS</th>
<th>PARAMETER 1</th>
<th>PARAMETER 2</th>
<th>MINIMUM MSQ</th>
<th>FINAL MSQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>7,000</td>
<td>33% weekly service attendant</td>
<td>60% - 1300 p christian</td>
<td>0,6 msq</td>
<td>820 msq</td>
</tr>
<tr>
<td></td>
<td>2,300</td>
<td>13% - 300 p muslim</td>
<td>1 msq</td>
<td>300 msq</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11% - 250 p jewish</td>
<td>1 msq</td>
<td>250 msq</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16% - 450 p none</td>
<td>1 msq</td>
<td>450 msq</td>
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PROGRAM
PARAMETER - S CALCULATION

INHABITANTS
S scale

3. CHAPEL
7'000

PARAMETER 1
weekly service attendant
33%

33%
weekly service attendant
2300

PARAMETER 2
affiliation
60% - 1300 p
christian
13% - 300 p
muslim
11% - 250 p
jewish
16% - 450 p
none

MINIMUM MSQ
per person
0.6 msq
1 msq
1 msq
1 msq

FINAL MSQ
820 msq
300 msq
250 msq
450 msq
PROGRAM
PARAMETER- S CALCULATION

INHABITANTS
S scale

PARAMETER 1
weekly service attendant

PARAMETER 2
affiliation

MINIMUM MSQ
per person

FINAL MSQ

33% WEEKLY
33% MONTHLY
33% OCCASIONAL

16% CHRISTIAN
15% MUSLIM
11% JEWISH
6% NONE

7’000

33% weekly service attendant
2300

60% - 1300 p
christian

13% - 300 p
muslim

11% - 250 p
jewish

16% - 450 p
none

0,6 msq
1 msq
1 msq
1 msq

820 msq
300 msq
250 msq
450 msq
PROGRAM
PARAMETER: $S$ CALCULATION

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<td>none</td>
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PROGRAM
GENERAL BRIEF

1. SANCTUARY 4000 MSQ
2. WORSHIP 2000 MSQ
3. CHAPEL 1000 MSQ
4. MEDITATION CENTRE 1500 MSQ
5. CONFERENCE HALL 2500 MSQ
6. CAVEA 1500 MSQ
7. CULTURAL CENTRE 2500 MSQ
8. SUNDAY SCHOOL 1500 MSQ
9. ADMINISTRATION 1500 MSQ
10. MASTERPLAN
1. SANCTUARY
2. WORSHIP
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MASTERPLAN
1. SANCTUARY
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MASTERPLAN

RELATION UNCONTEXTUALIZED

LITURGICAL CORE
1. SANCTUARY
2. WORSHIP
3. CHAPEL
4. MEDITATION CENTRE
5. CONFERENCE HALL
6. CAVEA
7. CULTURAL CENTRE
8. SUNDAY SCHOOL
9. ADMINISTRATION

RELATION
UNCONTEXTUALIZED

EVENT UNITS
1. Sanctuary
2. Worship
3. Chapel
4. Meditation Centre
5. Conference Hall
6. Cavea
7. Cultural Centre
8. Sunday School
9. Administration

Masterplan

Prayer Halls and Private Worship
SITE
CONDITION AND INTERACTION
BORDER SITE
30 M BUFFER ZONE
BORDER SITE
RESIDUAL SPACE
INTERVENTION
COMPLEX
CONTEXT
HEIGHT HIERARCHY
FLOWS
BIGGER CONTEXT
BIGGER CONTEXT
RESIDENTIAL FLOW
WEIDER CONTEXT
HEALTH AND CARE FLOW
WEIDER CONTEXT

PROGRAM COMBINATION

1. SANCTUARY
2. WORSHIP
3. CHAPEL
4. MEDITATION CENTRE
5. CONFERENCE HALL
6. CAVEA
7. CULTURAL CENTRE
8. SUNDAY SCHOOL
9. ADMINISTRATION
WEIDER CONTEXT

FINAL SHAPING

WORSHIP HALLS
physical proximity
geographical orientation
FINAL OUTPUT
FINAL OUTPUT
THE SANCTUARY
LIGHT
LIGHT
CONCEPT

NATURAL LIGHT
BUILDING’S CUT

ARTIFICIAL LIGHT
INDIRECT SYSTEM
SKETCHES
LIFE
EARLY MORNING
LIGHT
LATE AFTERNOON
MATERIALIZATION
MATERIALIZATION CONCEPT

ROUGH OUTSIDE MONOLITIC APPARENCE

DIRECTED INSIDE ENPHASIZED PROSPECTIVE
MATERIALIZATION
CONCEPT
MATERIALIZATION

DIAGRAM
ZOOM IN
CHRISTIAN CHAPEL
INFO
MATERIAL
INFO
DIMENSION
CLIMATE CONTROL
FINAL OUTPUT
PRAYER HALLS
FINAL OUTPUT
PRAYER HALLS
FINAL OUTPUT
PRAYER HALLS