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From the Border: Migrant Youth shelter

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FROM THE BORDER MIGRANT YOUTH SHELTER

NOGALES, ARIZONA



ALEXANDRA REILLY
ANDREW COHEN
ARCH 613_THESIS
FALL 2015

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FROM THE BORDER: MIGRANT YOUTH SHELTER
ALEXANDRA R REILLY
MASTER OF ARCHITECTURE
SCHOOL OF ARCHITECTURE, ART AND HISTORIC PRESERVATION
ROGER WILLIAMS UNIVERSITY
DECEMBER 2015

FROM THE BORDER: MIGRANT YOUTH SHELTER
SUBMITTED IN FULFILLMENT OF THE REQUIREMENTS FOR THE MASTERS OF ARCHITECTURE DEGREE
DECEMBER 2015

ALEXANDRA REILLY : _____

PROFESSOR ANDREW COHEN : _____

DEAN STEVE WHITE OF SAAHP : _____



SPECIAL THANK YOU TO ALL THE PROFESSORS WHO HELPED ME THROUGHOUT THE YEARS. WHOM I LOOKED TO FOR ADVICE AND GUIDANCE. THANK YOU TO MY FAMILY AND FRIENDS FOR BEING SUPPORTIVE AND UNDERSTANDING OF MY DEDICATION TO SCHOOL WORK. A VERY SPECIAL THANK YOU TO GEOFFREY E. DAVES FOR WITHOUT WHOM THIS THESIS WOULD NOT HAVE BEEN POSSIBLE.

TABLE OF CONTENTS

ONE	MANIFESTO
TWO	ARCHITECTURAL THEMES
THREE	PROPOSAL
FOUR	PROJECT STATEMENT
FIVE	SITE ANALYSIS
SIX	PROGRAM
SEVEN	PRECEDENTS
EIGHT	FINAL PROJECT
NINE	APPENDIX

ONE | MANIFESTO

ARCHITECTURE HAS BEEN AROUND FOR THOUSANDS OF YEARS. EACH BUILDING AND PIECE OF ARCHITECTURE MEANS SOMETHING DIFFERENT AND WAS BUILT FOR A DIFFERENT PURPOSE. OVER TIME, ARCHITECTURE HAS EVOLVED BASED ON LOCATION AND TECHNOLOGY. THE ONE TRUE REASON FOR ARCHITECTURE HAS REMAINED OVER TIME. ARCHITECTURE IS MEANT FOR THE PEOPLE. IT IS BASED ON THE SITE AND THE CLIENT. WITHOUT A CLIENT, THERE WOULD BE NO ARCHITECTURE. I BELIEVE THAT ARCHITECTURE IS BUILT AND DESIGNED FOR PEOPLE. BUILDINGS ARE INHABITED BY PEOPLE SO WITHOUT THEM THERE WOULD BE NO ARCHITECTURE. PEOPLE BRING A BUILDING TO LIFE. THEY ARE BUILT AT "HUMAN SCALE" AND DESIGNED WITH THE HUMAN IN MIND. AFTER COMPLETED, THEY ARE FLOODED WITH PEOPLE AND OCCUPIED AND USED BY HUMANS.

THERE ARE MANY DIFFERENT THINGS THAT ARCHITECTURE CAN BE ABOUT. EACH BUILDING BUILT HAS A MEANING AND A PURPOSE. BUT ARCHITECTURE AS A WHOLE IS ABOUT FILLING A VOID. BUILDINGS GO UP IN EMPTY SITES EVERY DAY AND FILL SPACES THAT BEFORE DIDN'T SERVE A PURPOSE. THEY HAVE THE ABILITY TO TRANSFORM A CITY OR A TOWN OR MAYBE JUST ONE PERSON. ARCHITECTURE HAS THE POWER TO CREATE EMOTION AND TO MAKE PEOPLE FEEL A CERTAIN WAY. FOR EXAMPLE, THE FREEDOM TOWER IN NEW YORK CITY HAS AN INCREDIBLE POWER OF MAKING US FEEL AND REMEMBER SOMETHING SO SIGNIFICANT IN TIME. ARCHITECTURE IS ABOUT DESIGNING AND CREATING THINGS THAT MAY SEEM IMPOSSIBLE. ARCHITECTURE HAS THE OPPORTUNITY TO BE REVOLUTIONARY AND CHANGE THE WAY WE SEE THE WORLD. WITH NEW TECHNOLOGY RISING ARCHITECTURE IS CONSTANTLY CHANGING. IT IS CONSTANTLY SEARCHING FOR NEW

ARCHITECTURE IS FOR SHAPING US. IT SHAPES THE WAY IN WHICH WE LIVE. IT SHAPES THE CITIES OR TOWNS IN WHICH WE LIVE. IT IS DISTINCT. EACH SKYLINE IS DIFFERENT FROM EACH OTHER AND THAT IS BECAUSE OF THE ARCHITECTURE. ARCHITECTURE IS INFLUENCED BY PREVIOUS ARCHITECTURE OR MAYBE NOT EVEN BY ARCHITECTURE AT ALL. BUT EACH PIECE IS DISTINCT FROM THE NEXT. THE ARCHITECTURE IN NEW YORK IS DIFFERENT FROM THE ARCHITECTURE IN ITALY. THE ARCHITECTURE IN ITALY IS DIFFERENT FROM THAT OF CHINA. THE LOCATION OF ARCHITECTURE IS WHAT MAKES IT UNIQUE.

THE WAY I LOOK AT ARCHITECTURE IS THAT IT SHOULD HAVE PURPOSE. IT SHOULD MEAN SOMETHING. IT SHOULD EVOKE EMOTION AND FEELING AND TRANSFORM. ARCHITECTURE SHOULD STAND FOR SOMETHING. WHETHER IT BE A SMALL HOUSING COMPLEX OR A TRANSPORTATION HUB. IT SHOULD REFLECT WHERE IT IS BUILT AND THE AREA IT IS IN. ARCHITECTURE NEEDS TO BE PEOPLE-FRIENDLY. IT NEEDS TO BE INVITING AND WELCOMING. THERE SHOULD BE A PLACE THAT INCORPORATES THE OUTDOORS AND NATURE. EVEN IN THE CITY. OUTDOOR SPACE IN AN URBAN SETTING IS EXTREMELY IMPORTANT. ARCHITECTURE SHOULD INCORPORATE ALL SORTS OF THINGS. THERE SHOULD BE MANY IDEAS AND THOUGHTS IN THE DESIGN. ARCHITECTURE CAN BE CHANGED AGAIN AND AGAIN. IT CAN BE FLEXIBLE AND REPURPOSED AND RENOVATED. ARCHITECTURE IS EVERLASTING.

TWO | ARCHITECTURAL THEMES

FLEXIBILITY

- WILLINGNESS TO CHANGE OR COMPROMISE
- THE ABILITY TO BE EASILY MODIFIED

MULTIPURPOSE

- HAVING SEVERAL PURPOSES OR FUNCTIONS

ARCHITECTURAL THEMES

FLEXIBLE



THE IMAGE TO THE LEFT IS A WHAT IS CALLED THE "POP-UP-OFFICE." IT IS A MODULAR ADAPTABLE WORKSPACE TO BE USED IN A VARIETY OF WAYS. EACH SET UP IS MEANT TO PROVOKE A CERTAIN DEGREE OF WORKING. THEY ARE MEANT TO BE TAILORED TO THE USER.

THIS IMAGE IS A PAVILION THAT IS ADAPTABLE AS WELL. THE SLIDING AND MOVABLE WOOD-EN PANELS ON THE STRUCTURE ALLOW THE USER FOR VERSATILITY WHILE INSIDE. EACH PANEL CAN MOVE TO CREATE A DIFFERENT SPACE WITHIN. THE STRUCTURE CAN ALSO BE COMPLETELY CLOSED AS WELL.

BOTH OF THESE CREATIONS ARE EXAMPLES OF THE TERM FLEXIBLE. THEY CAN BOTH TRANSFORM INTO OTHER OPTIONS.

ARCHITECTURAL THEMES

MULTIPURPOSE



<http://www.archdaily.com/589662/the-flow-a-multipurpose-pavilion-department-of-architecture/54be54e58ecef70000d1-flow105-jpg>

<http://www.architectmagazine.com/project-gallery/exeter-school-multi-purpose-space>

'THE FLOW' BY DEPARTMENT OF ARCHITECTURE WAS DESIGNED WITH MANY PURPOSES IN MIND. IT CAN BE A BAND PAVILION. THE SEATS CAN BECOME TABLES FOR STUDENTS TO GATHER TO DO HOMEWORK AT. LECTURES CAN HAPPEN HERE AS WELL AS MEETINGS OR SMALL CONCERTS OR PERFORMANCES. ONE SIDE OF THE PAVILION FACES PLAYING FIELDS SO SPECTATORS CAN COME AND WATCH GAMES.

AT THE EXETER SCHOOL IS MISSOURI, THIS LARGE MULTIPURPOSE SPACE WAS CREATED TO CATER TO SPORTING EVENTS, MUSICAL EVENTS, AND SCHOOL LUNCHES. THESE THREE PROGRAMS ARE EXTREMELY DIFFERENT. TYPICALLY IN SPORTS FACILITIES THE ACOUSTICS AREN'T GREAT AND THERE IS A LOT OF ECHO. FOR MUSIC, THIS WOULD BE FAR FROM IDEAL. DAKE WELLS ARCHITECTS TOOK THREE SPACES AND CREATED ONE. THIS ONE SPACE CAN WORK FOR ANY NECESSARY FUNCTION.

THREE | PROBLEM STATEMENT

"SINCE OCTOBER, 47,000 CHILDREN HAVE BEEN CAUGHT CROSSING THE SOUTHERN BORDER WITHOUT PARENTS OR OTHER FAMILY MEMBERS, A MORE THAN 90% INCREASE FROM LAST YEAR."

-NEW YORK TIMES

"MORE THAN 800 OF THE YOUNGSTERS ARE BEING HELD AT A FORMER WAREHOUSE IN NOGALES, ARIZ., NOW ALSO DEPLOYED AS A DETENTION CENTER FOR MIGRANT YOUTHS."

-L.A. TIMES

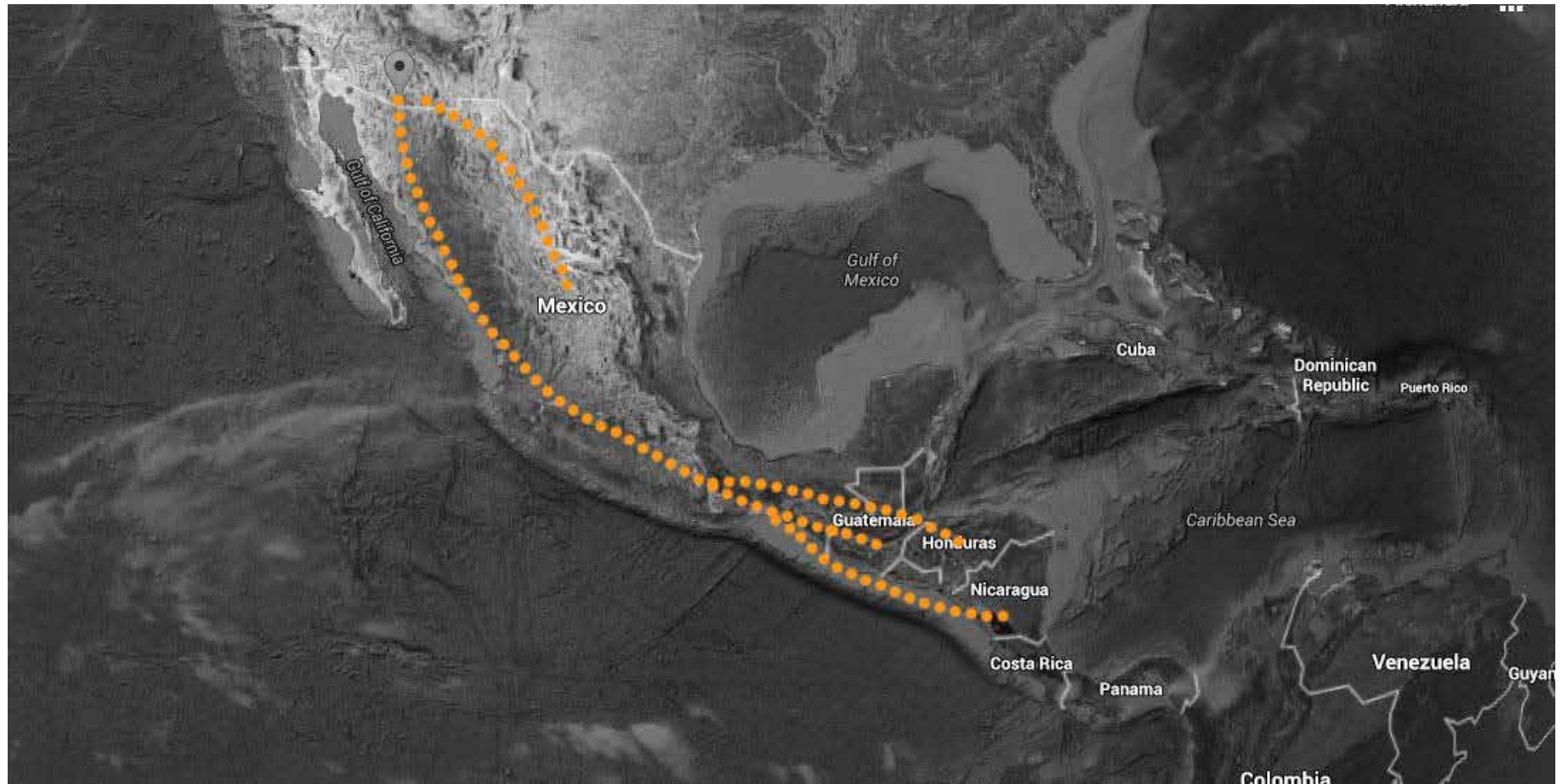
PROBLEM STATEMENT

WITHIN THE PAST COUPLE YEARS, THE NUMBER OF YOUTH IMMIGRANTS HAS INCREASED GREATLY. THE CHILDREN ARE BEING SENT TO THE UNITED STATES ALONE IN HOPES OF BEING ABLE TO COME IN TO THE US. THEIR JOURNEYS ARE LONG AND TOUGH. BECAUSE OF THE NUMBER OF CHILDREN AND YOUNG ADULTS TRYING TO CROSS THE BORDER, THE BORDER CONTROL CENTERS HAVE NO SPACE FOR THEM. THE OVERFLOW OF KIDS HAVE BEEN SENT TO WAREHOUSES WHERE THEY MUST SLEEP ON BLANKETS ON CONCRETE FLOORS. SIMILAR CONDITIONS ARE OCCURING IN THE CENTERS THEMSELVES. THESE CENTERS WERE NOT MADE TO HOUSE CHILDREN FOR AS LONG AS THEY ARE. AT MOST THE YOUTH COMING TO THE US SHOULD STAY IN THESE CONTROL CENTERS FOR THREE DAYS, BUT MOST ARE STAYING WEEKS BEYOND THAT.

FROM THE CONTROL CENTER, THE CHILDREN SHOULD BE SENT TO HEALTH AND HUMANE SERVICES THAT ACTS AS A CAMP FOR THE YOUNG UNTIL THEY CAN BE PLACED. ONE CENTER THAT IS MEANT TO HOLD 250 IS HOLDING DOUBLE THAT. THE CONDITIONS AT THE CENTERS ARE SPARE BECAUSE THEY WERE SET UP FOR ONLY BRIEF STAYS. AND THEY WERE NOT MEANT TO HOUSE MINORS. SOME OF THE BORDER CONTROL CENTERS HAVE BEEN DESCRIBED AS INHUMANE AND ABUSIVE.

THE OVERALL PROBLEM AT HAND IS THE BORDER CONTROL CENTERS ARE BEING SWAMPED WITH MINORS AND ARE NOT ABLE TO ACCOMMODATE THEM. THESE CENTERS ARE NOT EQUIPPED TO HANDLE THE ENSLAUGHT OF YOUTH AND DO NOT HAVE THE NECESSARY FACILITIES. BECAUSE OF THIS, THE CHILDREN ARE FORCED TO STAY IN SPACES SUCH AS WAREHOUSES. HOW IS IT THAT THIS IS THE FIRST IMPRESSION THESE CHILDREN HAVE OF THE UNITED STATES? WHAT CAN WE AS A COUNTRY DO TO CHANGE THAT?

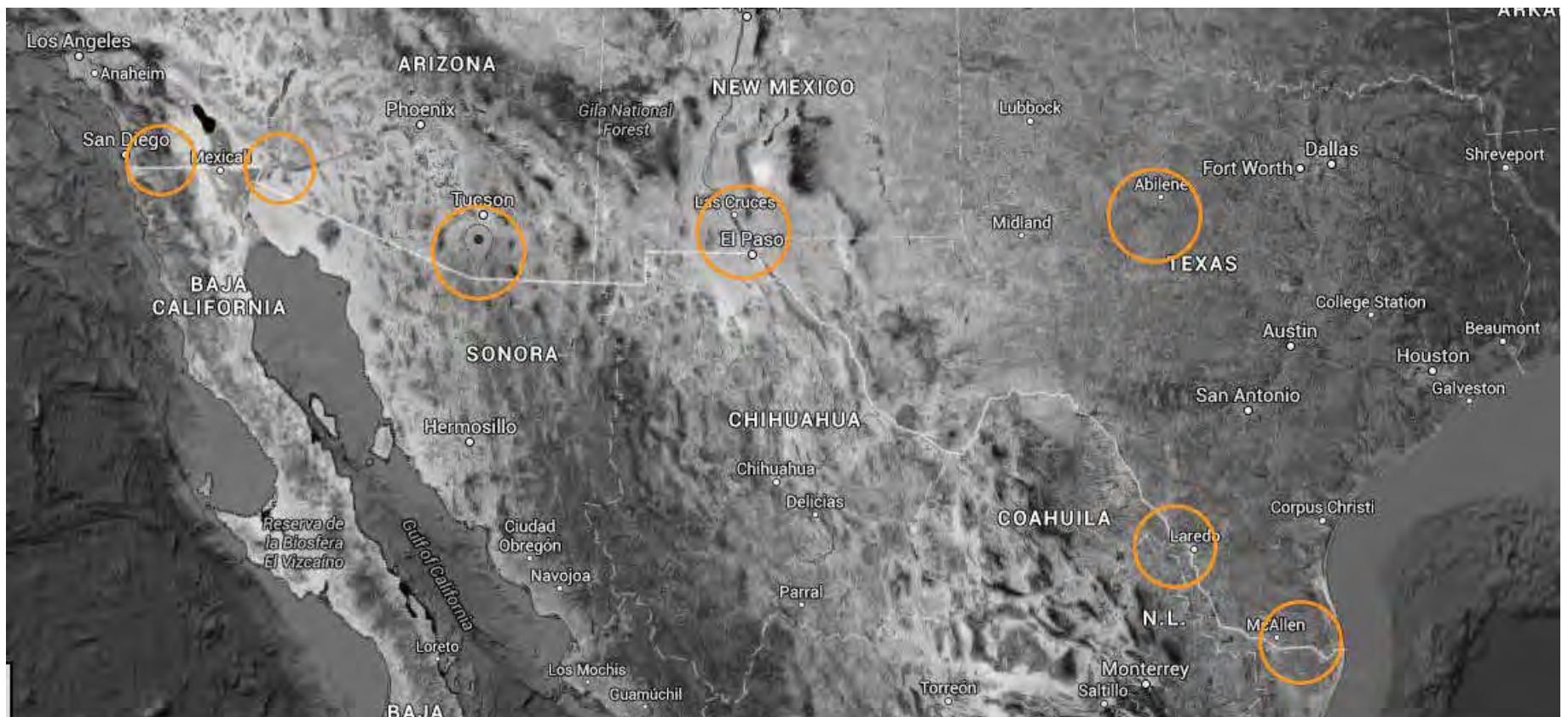
PATHS OF MIGRATION FROM CENTRAL AMERICA



PROBLEM STATEMENT

THERE ARE VARIOUS BORDER CONTROL CENTERS ACROSS THE BORDER OF THE UNITED STATES AND MEXICO. EACH SECTOR INCLUDES A NUMBER OF CENTERS AND COVER A CERTAIN AREA OF THE BORDER. THE MAJORITY OF THE CHILDREN TRAVELING WERE BROUGHT TO THE NOGALES STATION AND THE BROWNVILLE STATION. BECAUSE THE BROWNVILLE STATION ISN'T AS LARGE AS THE NOGALES STATION, THE NOGALES STATION HELD THE MOST AMOUNT OF CHILDREN.

BORDER CONTROL CENTERS



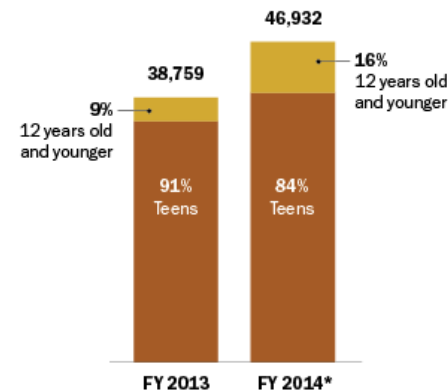
PROBLEM STATEMENT

STATISTICS

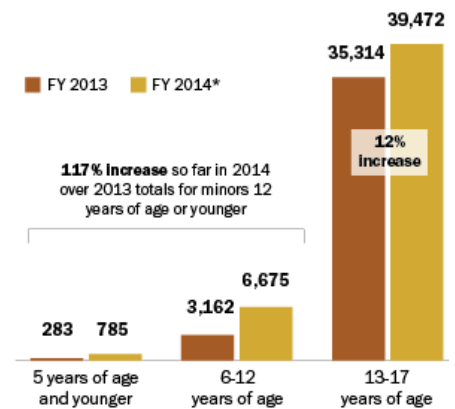
THESE GRAPHS SHOW THE STATISTICS OF THE GROWTH OF MIGRANT CHILDREN COMING INTO THE UNITED STATES, UNACCOMPANIED.

Crossing the U.S.-Mexico Border, Without Parents, at Increasingly Younger Ages

Total apprehensions of unaccompanied minors at the border



Apprehensions of unaccompanied minors at the border, by age

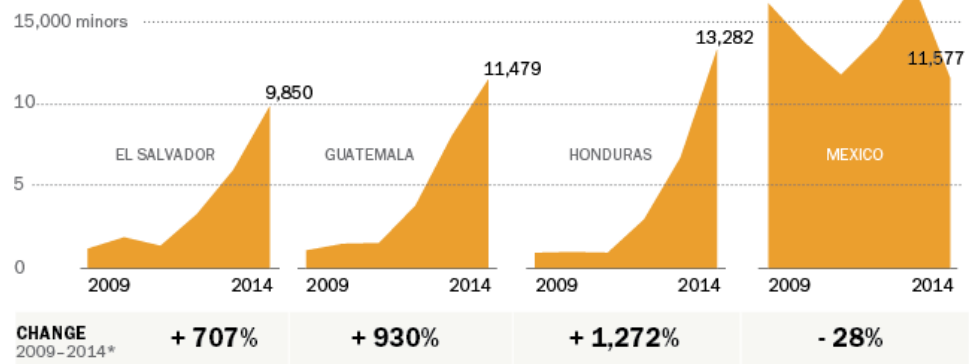


Note: Fiscal Year 2013 is Oct. 1, 2012 - Sept. 30, 2013. *Fiscal Year 2014 data is Oct. 1, 2013 - May 31, 2014.
Source: Pew Research Center analysis of U.S. Customs and Border Protection, Enforcement Integrated Database records

PEW RESEARCH CENTER

Sharp Rise in Unaccompanied Children Apprehended at the Border

Number of apprehensions of unaccompanied minors at the Southwest border, by country of origin

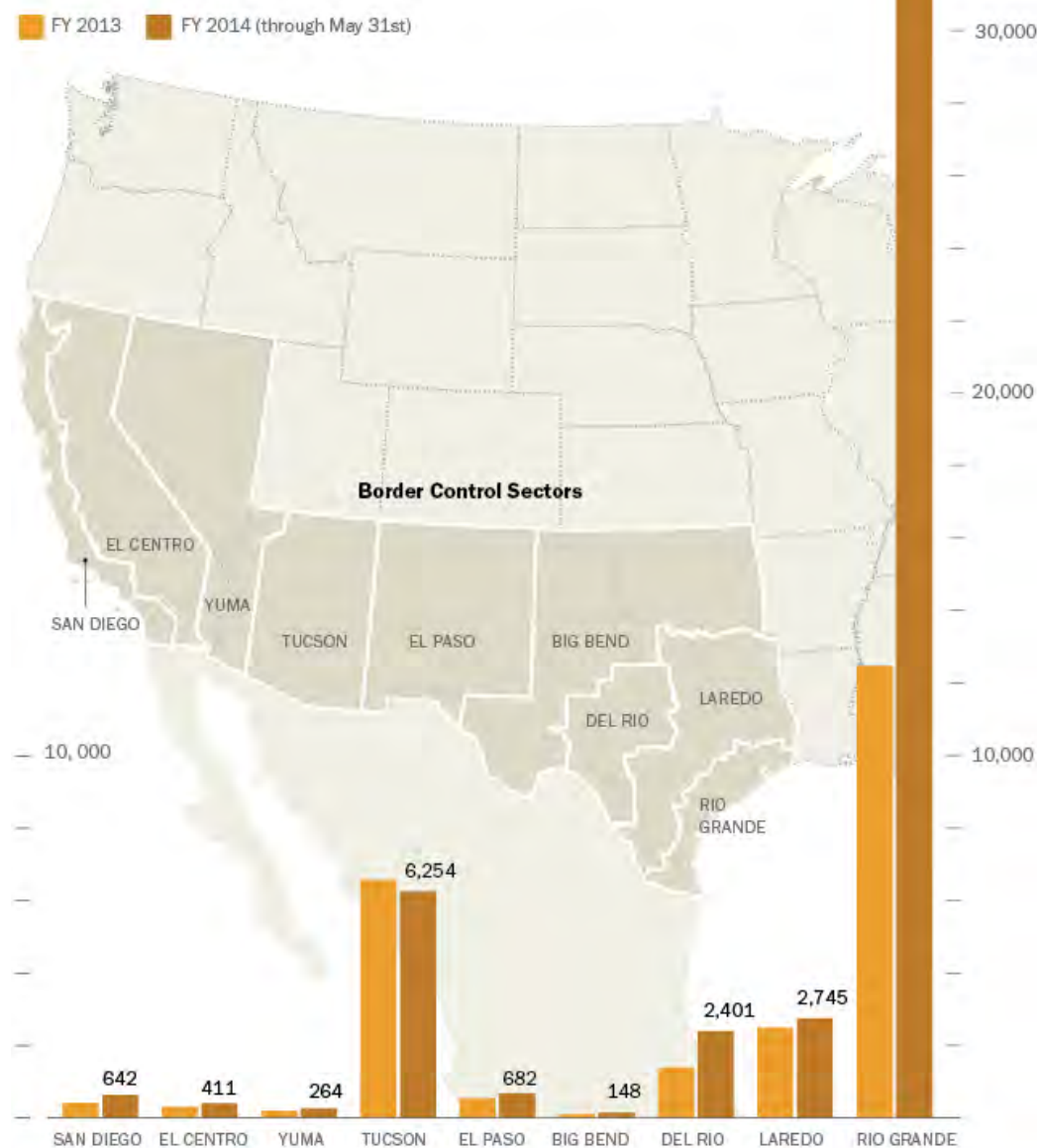


Source: U.S. Customs and Border Protection. Minors are children ages 17 years or younger.
Fiscal Years 2009-2013; Fiscal Year 2014 through May 31st.
*Percent change for FY2014 includes apprehensions through May 31st.

PEW RESEARCH CENTER / GRAPHIC BY DIANA YOO

A Surge in Children Apprehended at Rio Grande Border Area

Number of apprehensions of unaccompanied minors at the Southwest border, by border control sector



Source: U.S. Customs and Border Protection. Minors are children ages 17 years or younger.

PEW RESEARCH CENTER / GRAPHIC BY DIANA YOO

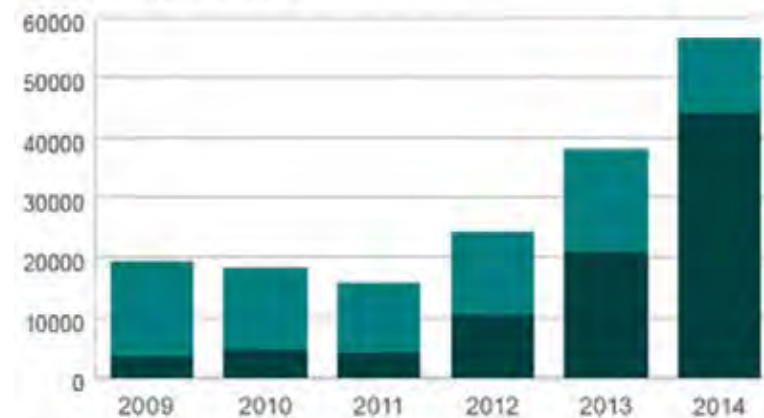
Unaccompanied child migrants

Country of origin

■ Mexico

■ Guatemala, Honduras and El Salvador

Number of apprehensions



Source: US Customs and Border Protection

FOUR | PROJECT PROPOSAL

EVEN THOUGH THE MIGRANT YOUTH HAVE A PLACE TO BE SENT AFTER THEIR 'SHORT' STAY AT THE CONTROL CENTERS, THAT TRANSFER MIGHT NOT HAPPEN FOR WEEKS. BORDER CONTROL CENTERS HAVE BEEN DESCRIBED AS INHUMANE AND ABUSIVE. THE MAXIMUM LIMIT FOR STAY THERE IS 72 HOURS BUT MOST PEOPLE STAY THERE LONGER. OVERFLOW OF CHILDREN HAVE BEEN SENT TO WAREHOUSES WHERE THEY MUST SLEEP ON BLANKETS ON CONCRETE FLOORS. ONE CENTER THAT IS MEANT TO HOLD 250 IS HOLDING DOUBLE THAT. BECAUSE OF THIS I PROPOSE TO PROVIDE CENTERS ON THE BORDERS TO THE U.S. TO HOUSE THE CHILDREN COMING INTO THE COUNTRY WITHOUT THEIR PARENTS. THESE CENTERS WILL CONTAIN TEMPORARY SHELTER FOR THESE CHILDREN FOR THE TIME THEY ARE BEING HELD. THE SHELTER WILL ACT AS A HOSTEL WITH A HEALTH CENTER ZONE. IT WILL PROVIDE FOOD AND BED FOR THOSE IN NEED AND WILL HAVE ACTIVITIES FOR THE CHILDREN.

USERS

THE MAIN USERS OF THE BUILDING WILL BE THE IMMIGRANT CHILDREN COMING FROM MEXICO OR CENTRAL AMERICA. THE BUILDING IS GEARED TOWARDS THESE CHILDREN. HOWEVER, THERE WILL BE OTHER USERS OF THE BUILDING AS WELL. THE BUILDING MUST ACCOMODATE THE STAFF THAT RUNS THE BUILDING, AS WELL AS THE FACULTY THAT WILL BE TAKING CARE OF THE CHILDREN THERE. THERE COULD BE INSTANCES TOO WHERE MOTHERS ARE TRAVELING WITH THEIR YOUNG CHILDREN, AND MAYBE THIS IS A PLACE WHERE THEY MAY STAY TOO.



FIVE | SITE ANALYSIS

SITE ANALYSIS

LOCATION

NOGALES, ARIZONA

FOUNDED: 1774

COORDINATES: 31°21'14"N
110°56'21"W

AREA: 20.8 SQUARE MILES

ELEVATION: 3832 FT

POPULATION: 20,456

DENSITY: 1001.6/SQMI

LANGUAGES: ENGLISH AND SPANISH

THE SITE OF NOGALES, ARIZONA HAS THE SECOND LARGEST BORDER CONTROL CENTER IN THE UNITED STATES. THIS SITE IS ONE OF THE LOCATIONS IN WHICH CHILDREN FROM MEXICO AND CENTRAL AMERICA ARE TRAVELING TO AND BEING HELD IN THE POOREST CONDITIONS.

BY BUILDING IMMIGRATION HOUSING IN THIS LOCATION, IT HAS THE ABILITY TO PROVIDE TEMPORARY STAY HOMES FOR THE YOUTH TRAVELING TO THE U.S. ON THEIR OWN.





SITE ANALYSIS

HISTORY

THE NAME "NOGALES" IS DERIVED FROM THE SPANISH WORD FOR "WALNUT" OR "WALNUT TREE." IT REFERS TO THE LARGE STANDS OF WALNUT TREES THAT ONCE STOOD IN THE MOUNTAIN PASS WHERE NOGALES IS LOCATED.

THOUSANDS OF YEARS AGO, BEFORE EUROPEAN EXPLORERS EVER DREAMED OF SAILING ACROSS THE ATLANTIC, NOGALES WAS PART OF A MIGRATORY PATH AND TRADE ROUTE MUCH LATER CALLED EL CAMINO REAL (THE KING'S HIGHWAY). MUCH LATER, REGIMENTS OF ARMOR-CLAD CONQUISTADORS FORAYED NORTH ALONG THIS VERY VALLEY IN QUEST OF PRECIOUS METALS AND GEMS. TODAY MISSIONS BUILT BY THE SPANISH COLONIALS STILL DOT THE VALLEY'S LANDSCAPE.

TODAY, YOU'LL FIND NOGALES A FAR MORE HOSPITABLE PLACE. WHERE PETE'S RANCH ONCE WAS, IS NOW PETE KITCHENS OUTPOST, A RESTAURANT. IT'S ACTUALLY ONE OF THE ORIGINAL 1853 STRUCTURES OF THE OLD KITCHEN HOMESTEAD. LIFE ON THE BORDER WOULD NOT BE COMPLETE WITHOUT THE INFLUENCE OF PANCHO VILLA, WHOSE ARMY OCCUPIED NOGALES, MEXICO IN 1914 DURING THE MEXICAN REVOLUTION. THE U.S. MILITARY'S GARRISON IN NOGALES SWELLED TO OVER 10,000 MOSTLY BLACK SOLDIERS OF THE HIGHLY DECORATED 25TH REGIMENT MOSTLY DETACHED FROM WASHINGTON, D.C. THE MILITARY BUILDUP AND RELATED BUSINESS GROWTH ATTRACTED MANY BUSINESSES TO NOGALES, SOME OF WHICH REMAIN TODAY.





INTERNATIONAL LINE, NOGALES, ARIZONA.

314599

SITE ANALYSIS

BUILDING LOCATION



U.S. - MEXICO BORDER

THE SITE CHOSEN IS IN NOGALES, ARIZONA. NOGALES HAS THE SECOND LARGEST BORDER CONTROL CENTER IN THE UNITED STATES. IT LIES JUST NORTH OF THE US-MEXICO BORDER ALONG THE PAJARITO MOUNTAIN RANGE. THE SITE IS CURRENTLY AN EXISTING WAREHOUSE DIRECTLY CONNECTED TO THE PROCESSING AND HOLDING PORTION OF THE BUILDING. THE WAREHOUSE NOW IS USED FOR MAINLY STORAGE BUT IT IS WHERE THE CHILDREN COMING FROM CENTRAL AMERICA WERE BEING HELD. THE SQUARE FOOTAGE OF THE WAREHOUSE AS EXISTING IS 174,000 SQUARE FEET. THE COMPLEX OF THE U.S. BORDER CONTROL CONSISTS OF THE CONTROL CENTER, PARKING AREAS, AND HORSE STABLES.



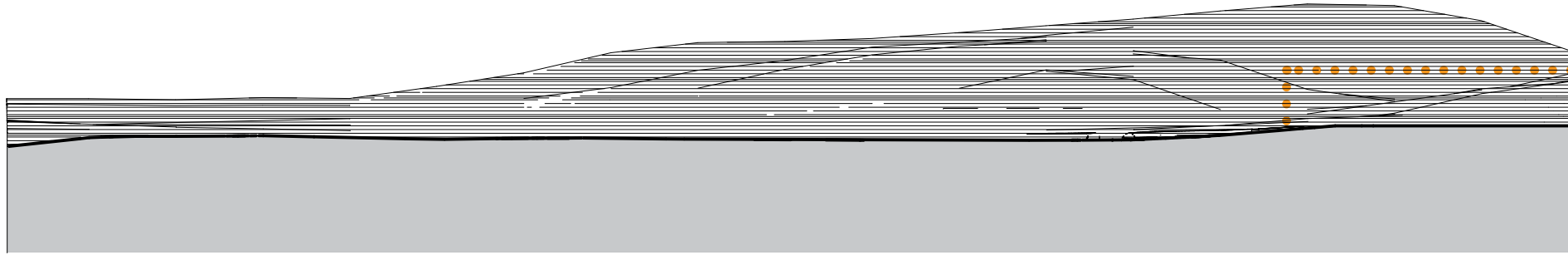
<http://www.eewc.com/wp-content/uploads/2013/02/More->

http://upload.wikimedia.org/wikipedia/commons/1/14/Mexican-American_border_at_Nogales.jpg

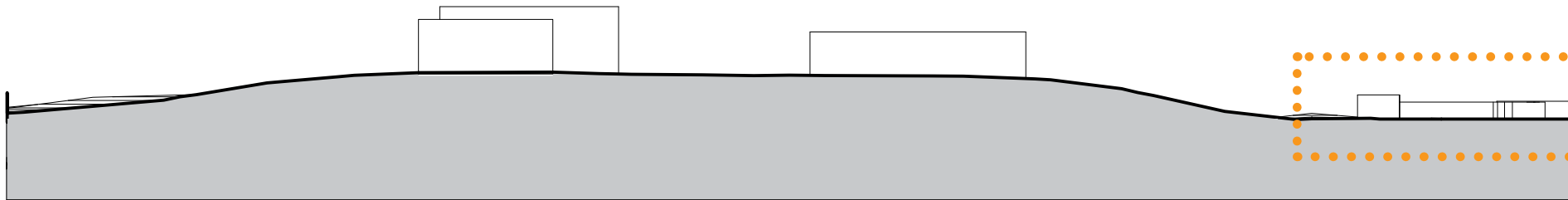
<http://upload.wikimedia.org/wikipedia/commons/4/42/Nogales.jpg>

SITE ANALYSIS

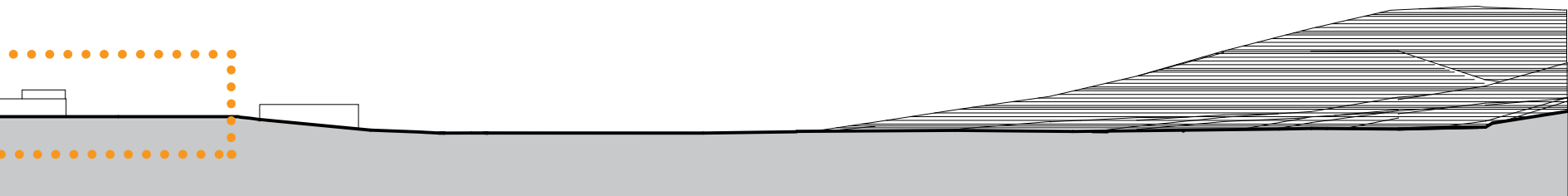
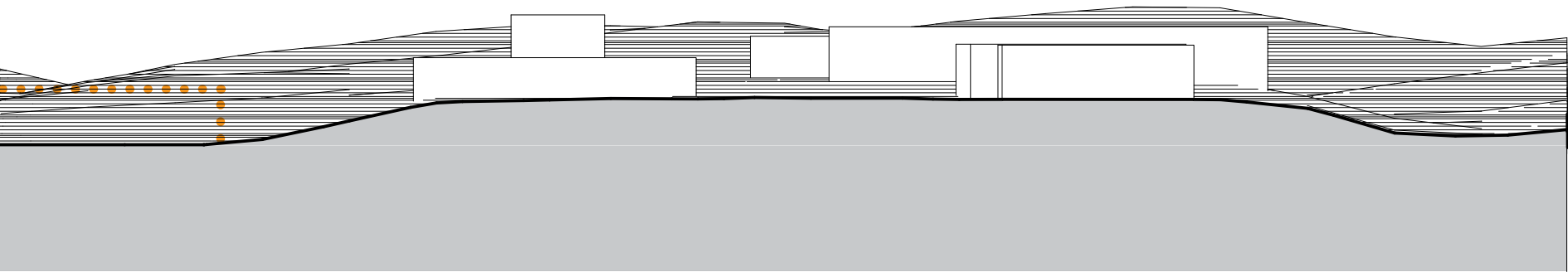
SITE SECTIONS



NORTH-SOUTH SECTION I

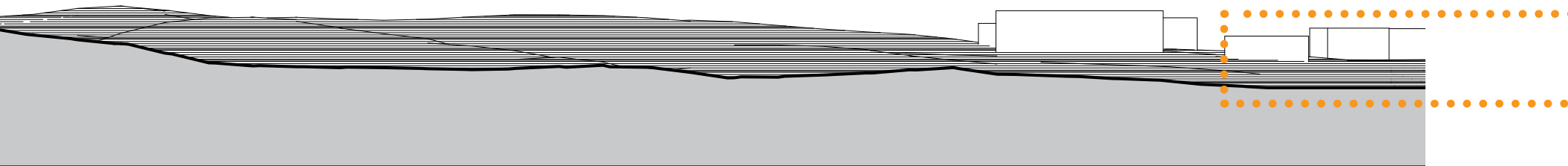


NORTH-SOUTH SECTION 2

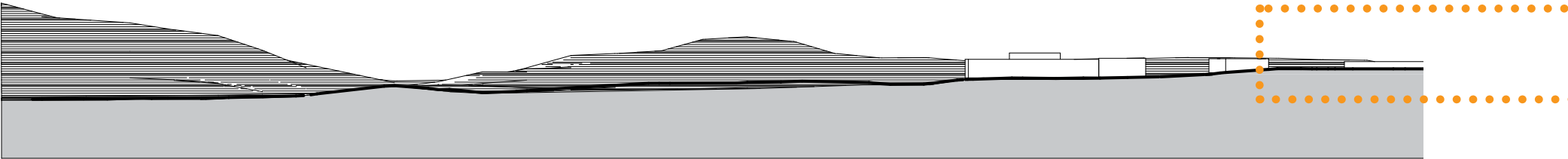


SITE ANALYSIS

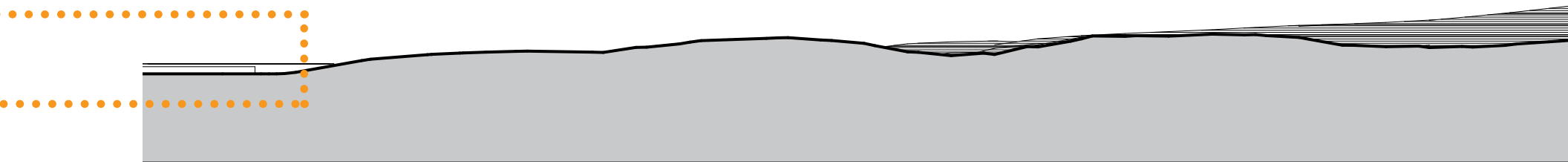
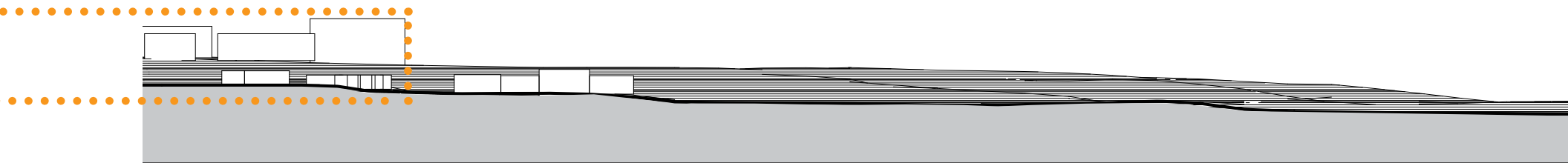
SITE SECTIONS



EAST-WEST SECTION I



EAST-WEST SECTION 2

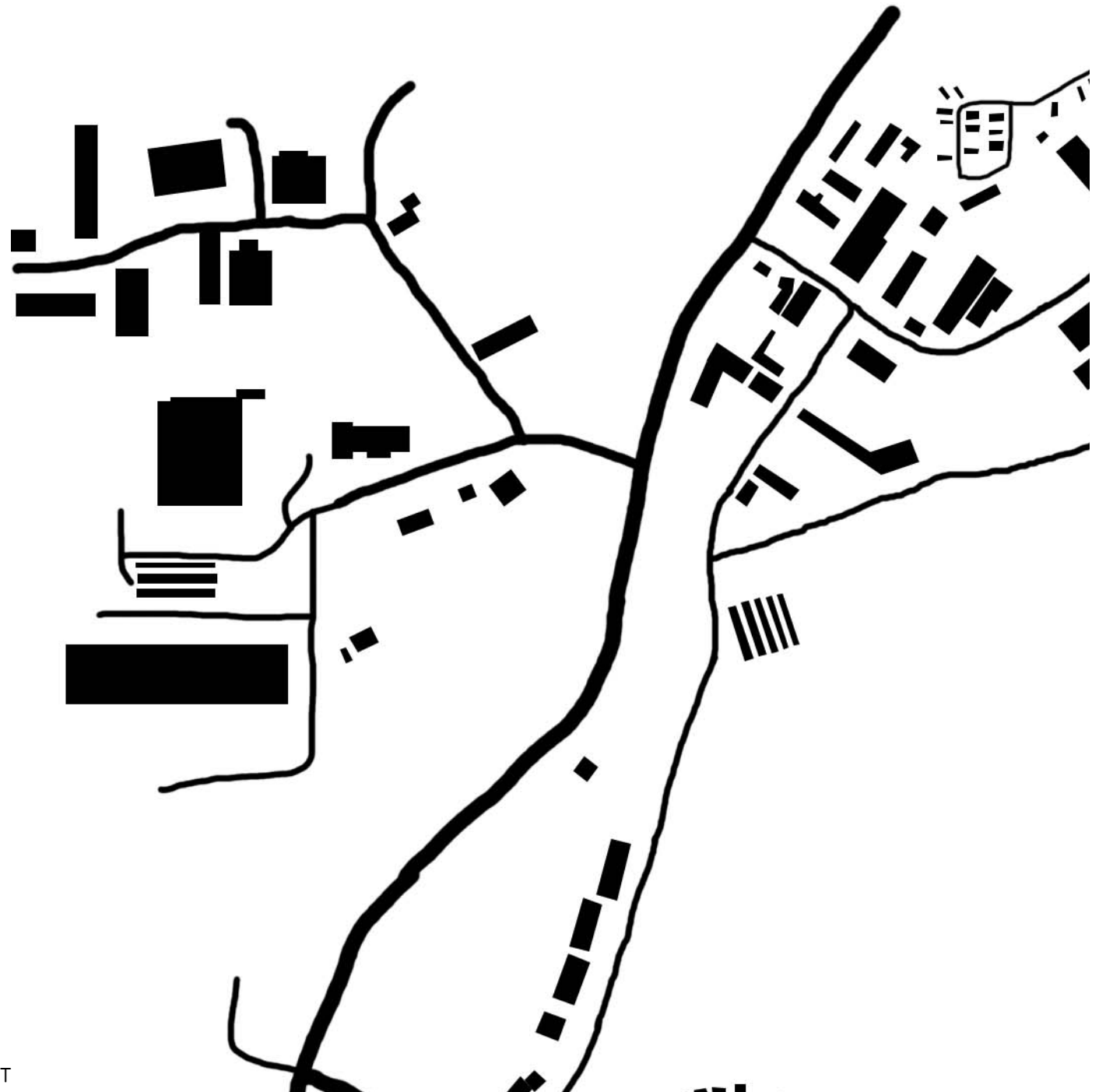


SITE ANALYSIS

CITY MAP



<http://www.bing.com/maps/preview?q=nogales%2c+az&mk-t=en&FORM=HDRSC4>



FIGURE/GROUND OF SITE CONTEXT

SITE ANALYSIS

STREET VIEWS



1.



2.



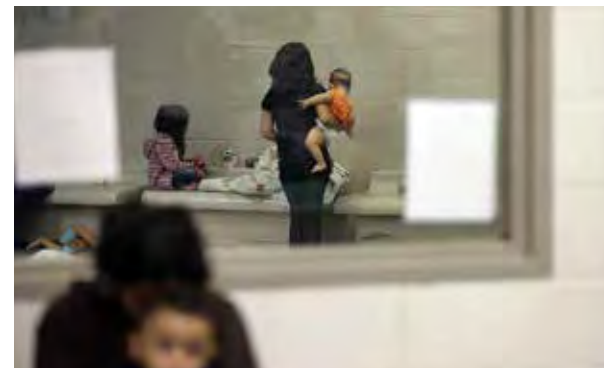
3.



SITE ANALYSIS

EXISTING CONDITIONS





INTERIOR EXISTING CONDITIONS



1.

2.

3.



4.

5.

SITE ANALYSIS

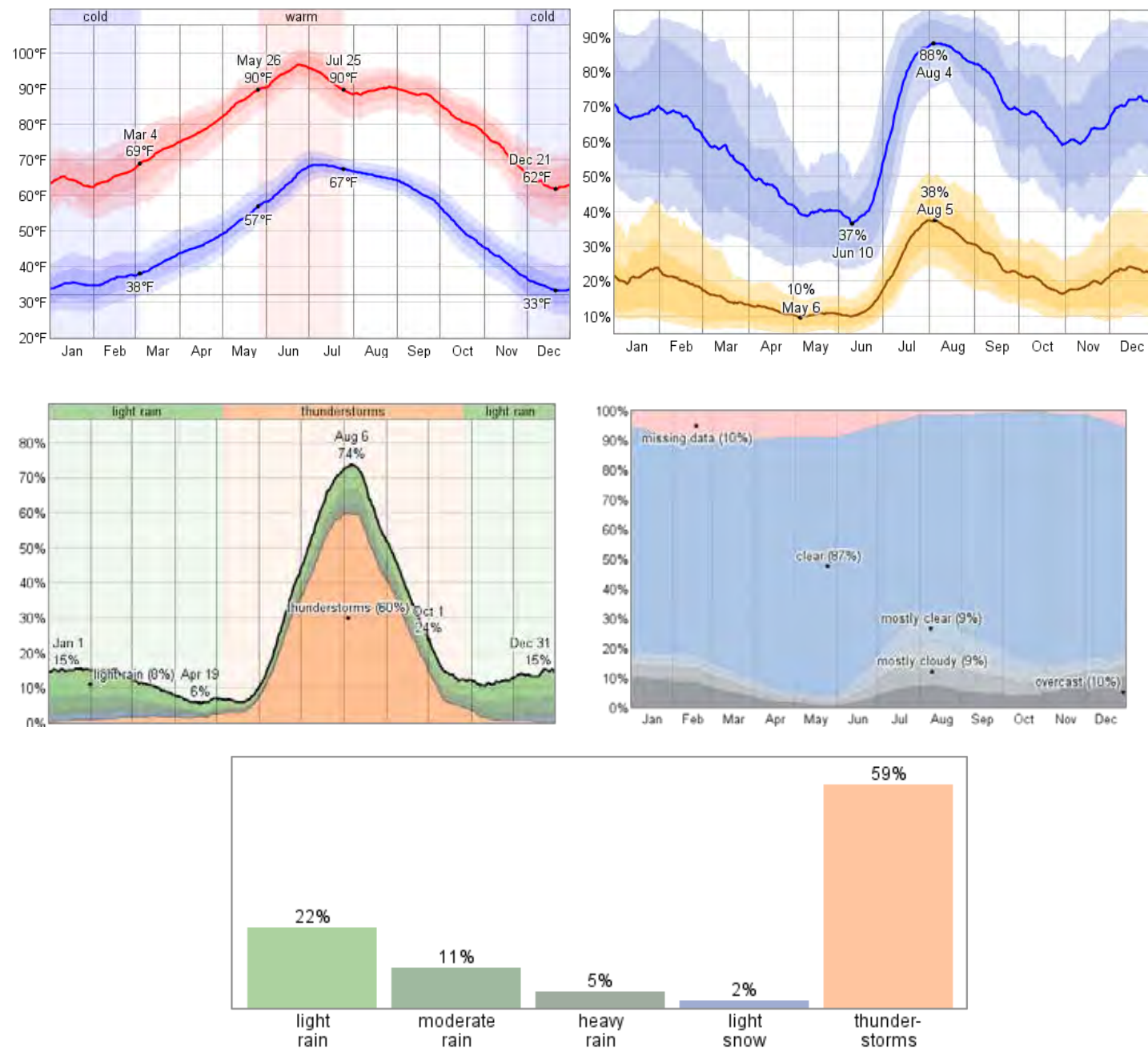
CONTEXT BUILDINGS



1. PROCESSING AND HOLDING CENTER
2. EXISTING WAREHOUSE + CURRENT HOUSING CONDITIONS
3. CURRENT PARKING LOT
4. BORDER CONTROL AGENT TRAINING CENTER
5. BORDER CONTROL OFFICE BUILDING
6. MAIN PARKING GARAGE
7. PRIVATE WAREHOUSES

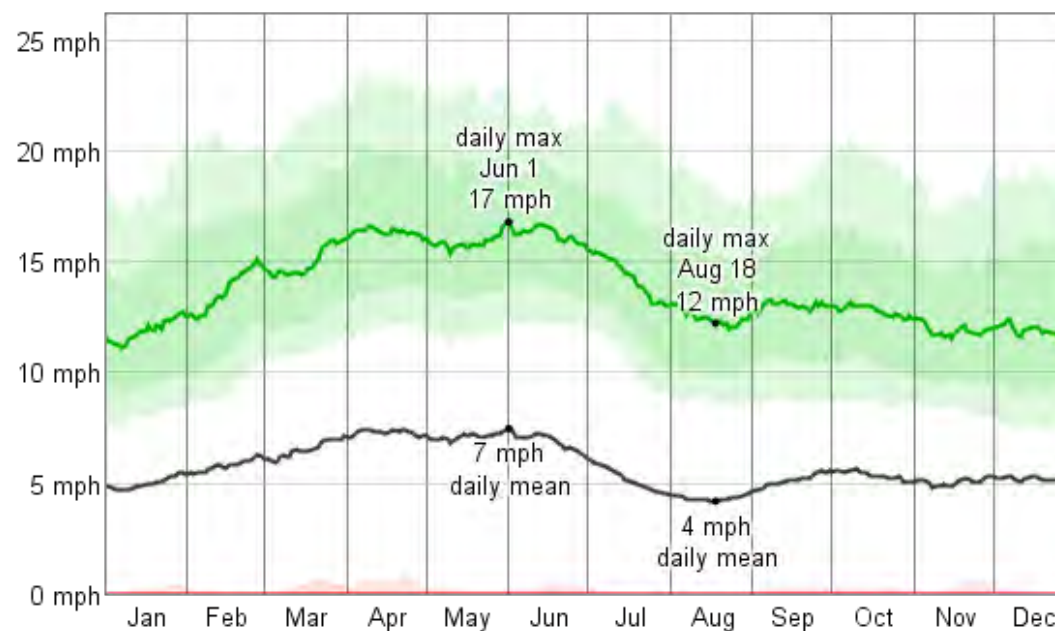
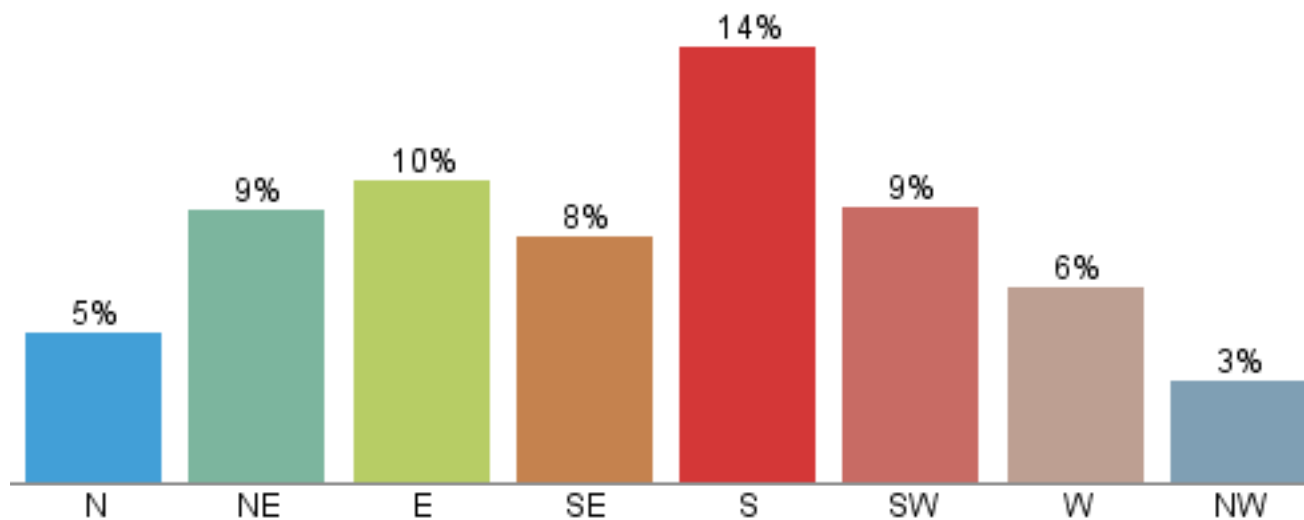
SITE ANALYSIS

CLIMATE



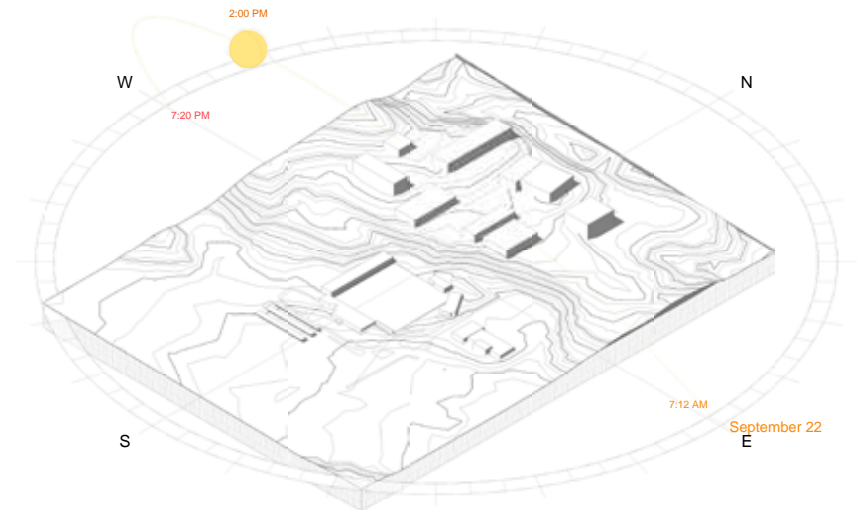
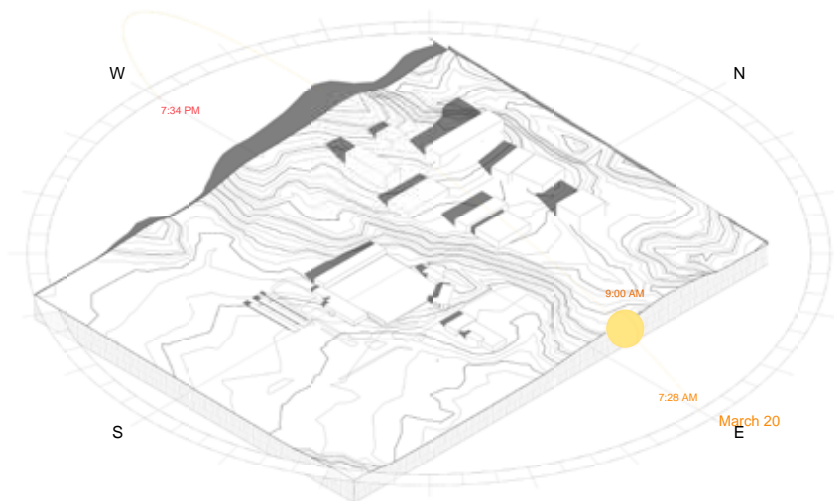
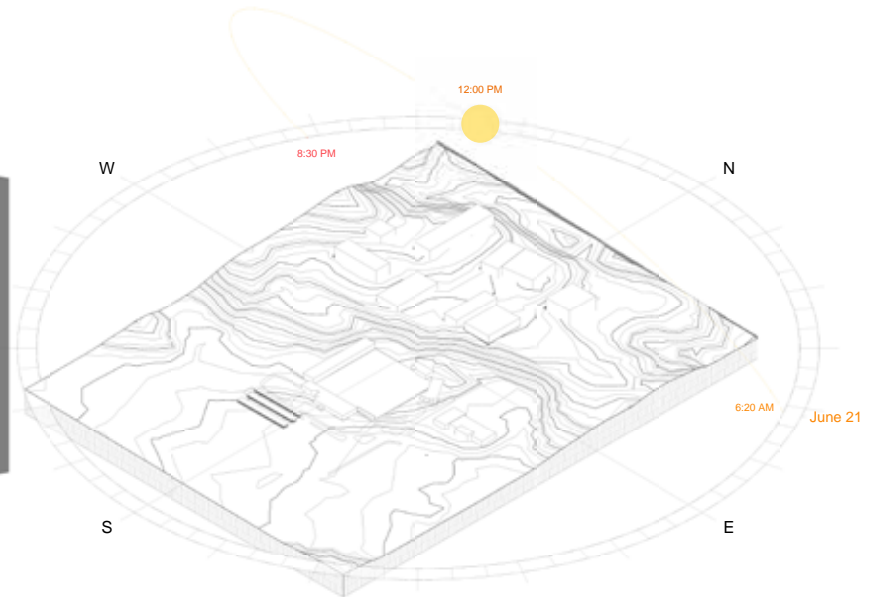
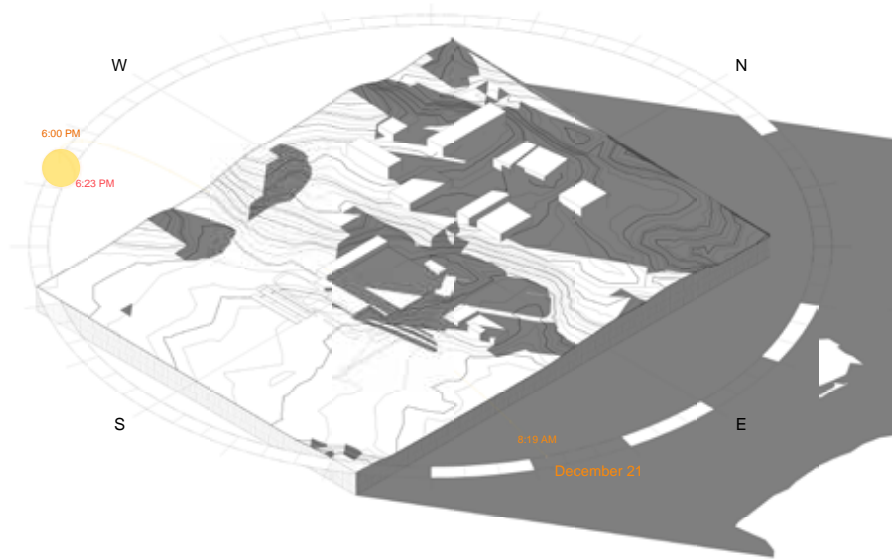
THE CLIMATE IN NOGALES IS MAINLY DRY WITH THE MOST HUMID AND COMFORT-ABLE MONTHS IN JULY AND AUGUST. AUGUST IS ALSO THE RAINY SEASON IN NOGALES WITH MOSTLY THUNDERSTORMS. THE AVERAGE TEMPERATURE IN THIS AREA IS AROUND 80 DEGREES WITH THE HOTTER MONTHS REACHING 90+ AND THE COLDER MONTHS BETWEEN 40-70 DEGREEES. THE WINTER MONTHS ARE THE DRIEST BUT STILL IN THE HIGH TEMPERATURES.

WIND DIRECTIONS



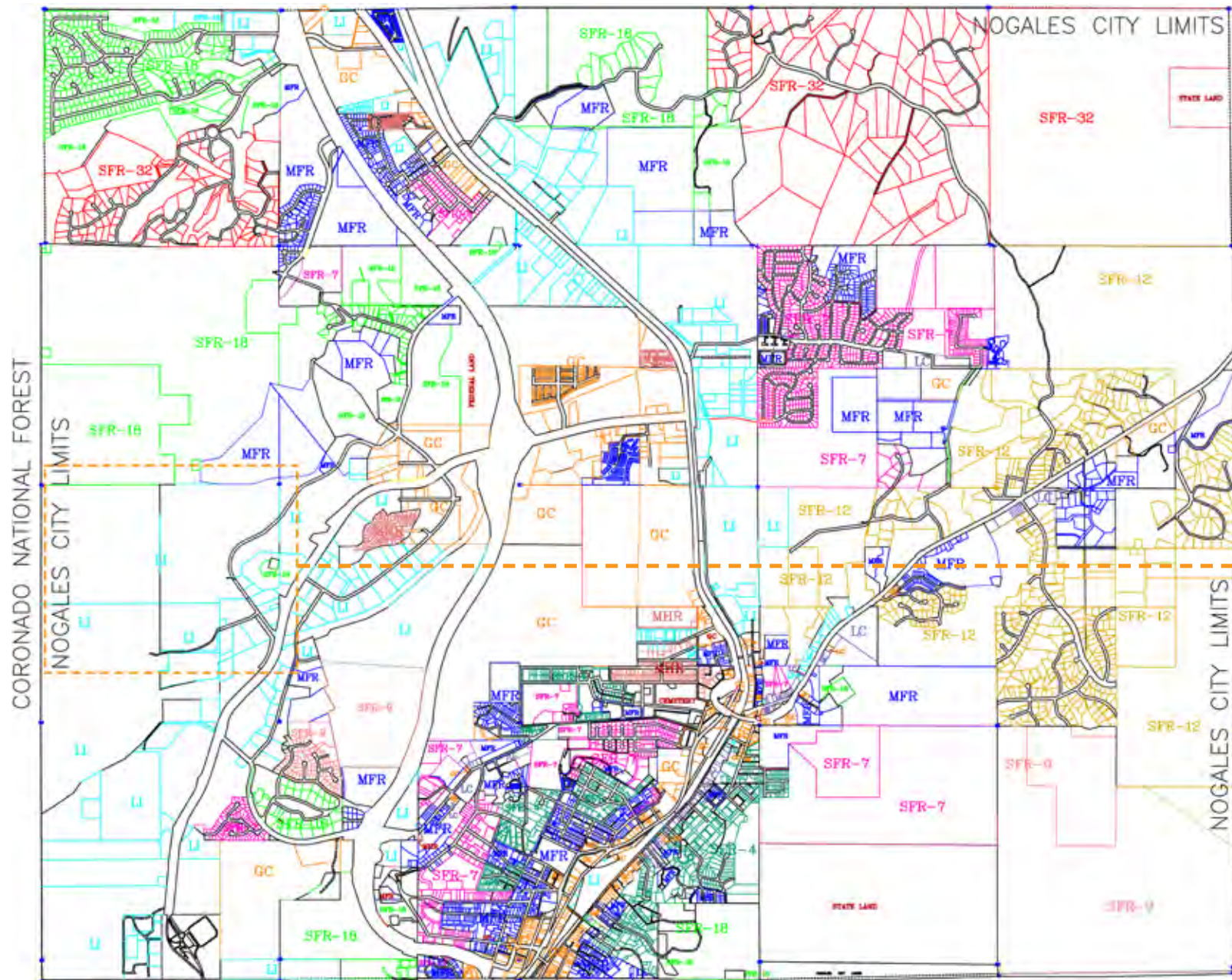
SUN DIRECTIONS

FROM THE BORDER



SITE ANALYSIS

ZONING MAP



ZONING/BUILDING REQUIREMENTS

FROM THE BORDER

CURRENT RELEVANT BUILDING CODES

2006 INTERNATIONAL BUILDING CODE
2006 INTERNATIONAL RESIDENTIAL CODE FOR ONE & TWO FAMILY DWELLINGS
2006 INTERNATIONAL UNIFORM PLUMBING CODE
2006 INTERNATIONAL MECHANICAL CODE
2006 INTERNATIONAL FUEL AND GAS CODE
2006 INTERNATIONAL CODE FOR EXISTING BUILDINGS
1997 UNIFORM FIRE CODE
2005 NATIONAL ELECTRICAL CODE
AMERICAN DISABILITIES ACT

DESIGN PARAMETERS FOR THE CITY OF NOGALES:

ELEVATION, 3854, BENCHMARK POST OFFICE STEP
SNOW LOAD, <4,000 FEET ELEVATION =0 PSF
WIND SPEED, 90 MPH
SEISMIC ZONE, B
FROST LINE DEPTH, 0-12 INCHES

-----LIGHT INDUSTRIAL ZONE

"THIS DISTRICT IS INTENDED FOR LIGHT INDUSTRIAL-MANUFACTURING, A LESS INTENSIVE INDUSTRIAL USE, AND LOCATED SUCH THAT DEVELOPMENT AND OPERATIONAL CHARACTERISTICS OF THE INDUSTRY WILL NOT NEGATIVELY AFFECT NEARBY RESIDENTIAL AND/OR COMMERCIAL ACTIVITIES. THESE REGULATIONS ARE INTENDED TO ENCOURAGE DEVELOPMENT OF SUCH MANUFACTURING, FABRICATING, PROCESSING, PACKAGING AND OTHER INDUSTRIES AS CAN BE OPERATED IN A RELATIVELY CLEAN, QUIET AND SAFE ENVIRONMENT."

SITE ANALYSIS

ZONING CODES

LIGHT INDUSTRIAL ZONE REQUIREMENTS

APPROVALS REQUIRED: NO STRUCTURE OR BUILDING SHALL BE BUILT OR REMODELED UPON PROPERTY IN THIS DISTRICT UNTIL ALL REQUIRED SUBDIVISION PLATS AND/OR SITE PLAN APPROVALS HAVE BEEN OBTAINED.

USER PERMIT: RESIDENTIAL USES SUBJECT TO A USE PERMIT

BUILDING HEIGHT: NO BUILDING SHOULD EXCEED 55 FEET IN HEIGHT, EXCEPT WHERE WITHIN 100 FEET OF A RESIDENTIAL DISTRICT THE HEIGHT SHALL NOT EXCEED 335 FEET IN HEIGHT.

MAXIMUM YARD COVERAGE: THIRTY-FIVE PERCENT OF THE REQUIRED SIDE AND REAR YARD

MINIMUM AREA: SUFFICIENT SIZE FOR THE INTENDED PURPOSE. QUESTIONABLE SIZES AND APPEALS SHALL BE DETERMINED BY THE BOARD OF ADJUSTMENT.

SETBACK REQUIREMENTS: ACCESSORY BUILDINGS SHALL BE SET BACK FROM FROM THE SIDE LOT LINE AND THE REAR LOT LINE A DISTANCE NO LESS THEN THREE FEET EXCEPT:

A. FOR A LOT HAVING ITS REAR LOT LINE CONTIGUOUS WITH AN ALLEY LINE, NO REAR SETBACK SHALL BE REQUIRED.

B. WHERE A MASONRY WALL OR NON-SEE THROUGH WALL OR FENCE EXISTS NO REAR SETBACK SHALL BE REQUIRED.

BUILDING CODES

2012 INTERNATIONAL BUILDING CODE

1103.2.12 DAY CARE FACILITIES.

WHERE A DAY CARE FACILITY IS PART OF A DWELLING UNIT, ONLY THE PORTION OF THE STRUCTURE UTILIZED FOR THE DAY CARE FACILITY IS REQUIRED TO BE ACCESSIBLE.

1107.5.5.2 SPECIAL HOLDING CELLS AND SPECIAL HOUSING CELLS OR ROOMS.

IN ADDITION TO THE ACCESSIBLE UNITS REQUIRED BY SECTION 1107.5.5.1, WHERE SPECIAL HOLDING CELLS OR SPECIAL HOUSING CELLS OR ROOMS ARE PROVIDED, AT LEAST ONE SERVING EACH PURPOSE SHALL BE AN ACCESSIBLE UNIT. CELLS OR ROOMS SUBJECT TO THIS REQUIREMENT INCLUDE, BUT ARE NOT LIMITED TO, THOSE USED FOR PURPOSES OF ORIENTATION, PROTECTIVE CUSTODY, ADMINISTRATIVE OR DISCIPLINARY DETENTION OR SEGREGATION, DETOXIFICATION AND MEDICAL ISOLATION.

1105.1.6 TENANT SPACES, DWELLING UNITS AND SLEEPING UNITS.

AT LEAST ONE ACCESSIBLE ENTRANCE SHALL BE PROVIDED TO EACH TENANT, DWELLING UNIT AND SLEEPING UNIT IN A FACILITY.

1003.2 CEILING HEIGHT.

THE MEANS OF EGRESS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7 FEET 6 INCHES (2286 MM).

CEILINGS OF DWELLING UNITS AND SLEEPING UNITS WITHIN RESIDENTIAL OCCUPANCIES IN ACCORDANCE WITH SECTION 1208.2.

THE MINIMUM WIDTH OF CORRIDORS SPECIFIED IN TABLE 1018.2 SHALL BE AS DETERMINED IN SECTION 1005.1.

WITHIN A DWELLING UNIT	36 INCHES
GROUP 1-2 IN AREAS WHERE REQUIRED FOR BED MOVEMENT	96 INCHES

1021.2.3 SINGLE-STORY OR MULTIPLE-STORY DWELLING UNITS.

INDIVIDUAL SINGLE-STORY OR MULTIPLE-STORY DWELLING UNITS SHALL BE PERMITTED TO HAVE A SINGLE EXIT WITHIN AND FROM THE DWELLING UNIT PROVIDED THAT ALL OF THE FOLLOWING CRITERIA ARE MET:

1. THE DWELLING UNIT COMPLIES WITH SECTION 1015.1 AS A SPACE WITH ONE MEANS OF EGRESS AND
2. EITHER THE EXIT FROM THE DWELLING UNIT DISCHARGES DIRECTLY TO THE EXTERIOR AT THE LEVEL OF EXIT DISCHARGE, OR THE EXIT ACCESS OUTSIDE THE DWELLING UNITS ENTRANCE DOOR PROVIDES ACCESS TO NOT LESS THAN TWO APPROVED INDEPENDENT EXITS.

SITE ANALYSIS

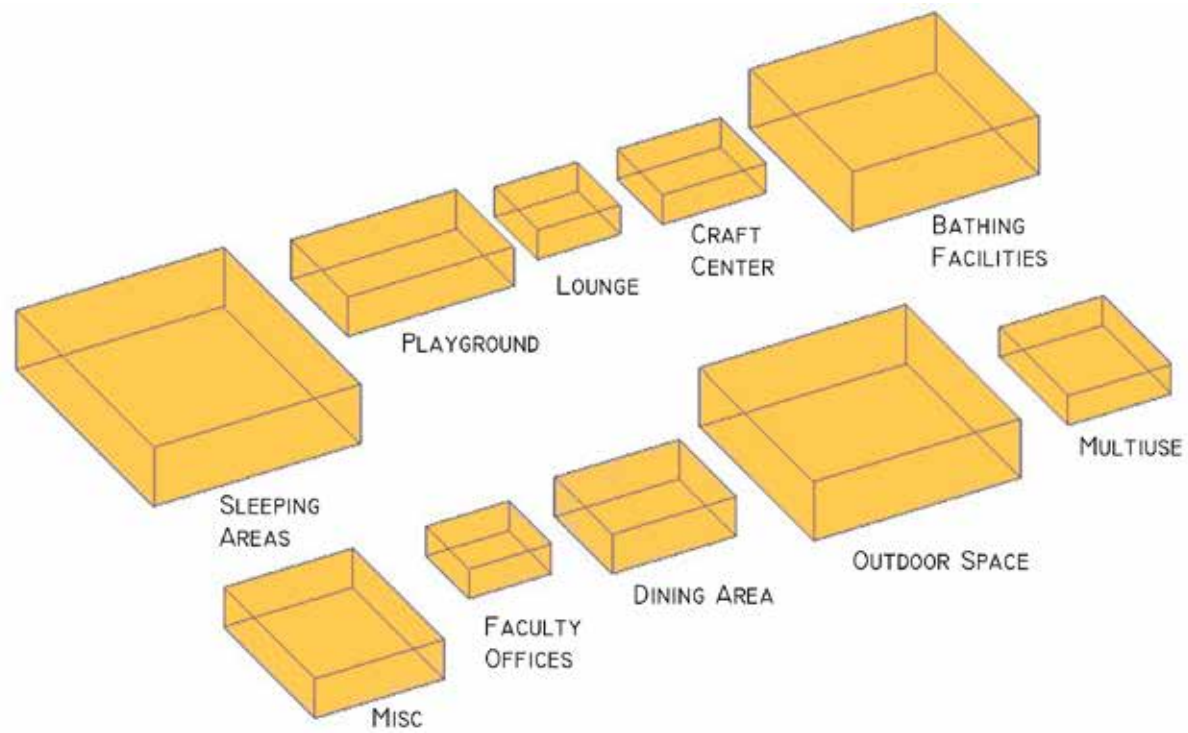
VERNACULAR ARCHITECTURE

THE VERNACULAR ARCHITECTURE IN THE AREA CONSISTS MAINLY OF ONE-STORY HOUSES WITH LOW PITCHED ROOFS. MOST OF THE HOMES HAVE A PORCH OR OVERHANG OVER THE ENTRY TO THE HOUSE. THE PORCH VARIES DEPENDING ON THE STYLE OF THE HOME. THE MATERIALS ARE STUCCO AND TERRA COTTA ROOF SHINGLES.



SIX | INITIAL PROGRAM

THE CURRENT ARRANGEMENT FOR THE CHILDREN CONSISTS OF MATS ON THE FLOOR OF THE WAREHOUSE BEHIND THE EXISTING PROCESSING BUILDING. CHAIN LINK FENCES SEPARATE THE DIFFERENT AGE GROUPS' SLEEPING AREAS. THERE ARE TABLES SET UP WITH TELEPHONES FOR THE KIDS TO CALL RELATIVES, GUARDIANS, ETC. THERE ARE PORTABLE TOILETS AND SHOWERS SET UP OUTSIDE IN THE PARKING LOT. NEXT TO THAT IS A DESIGNATED PLAY AREA ON THE ASPHALT. THERE IS MEDICAL CARE AVAILABLE FOR ANY SICK OR INJURED CHILD. THERE ARE ALSO TABLE AREAS SET UP FOR ONE-ON-ONE MEETINGS WITH CONSULATE MEMBERS FROM THEIR RESPECTED COUNTRIES. THE PROGRAM NEEDS GREAT IMPROVEMENT TO BE ABLE TO COMFORTABLY ACCOMMODATE THE AMOUNT OF CHILDREN LIVING AT THE BORDER CONTROL CENTER.



BEDROOMS	25,000
ROOMS FOR THE CHILDREN WILL BE DIVIDED BY AGE AND SEX. 6 CHILDREN WILL SLEEP IN EACH ROOM	
SHOWERS/RESTROOMS	18,500
COMMUNAL SHOWERS AND RESTROOMS WILL DIRECTLY CONNECT TO THE SLEEPING ROOMS AND SERVE GROUPS OF ABOUT 30	
LOUNGE/TV/GAME CENTER	2000
A CENTER FOR THE KIDS TO GATHER AND PLAY GAMES OR WATCH SOME TELEVISION AND HAVE SOME TIME OUTSIDE OF THEIR ROOMS	
CRAFT AREA	2000
AN AREA FOR THE CHILDREN TO CREATE AND EXPRESS THEMSELVES	
FACULTY OFFICES	1500
MEDICAL CENTER	2500
AN AREA FOR THE SICK CHILDREN TO COME AND GET TREATED. BEDS WILL BE LINED UP FOR TEMPORARY CARE	
PATIENT ROOMS	1500
THESE ROOMS ARE CLOSED OFF FOR THE VERY SICK CHILDREN THAT NEED MORE THEN A DAY STAY	
DINING HALL	3000
COMMUNITY ROOM	2500
LARGE GATHERING SPACE FOR LARGER GROUPS OF THE CHILDREN	
MULTIPURPOSE	4 @ 800
THESE SPACES ARE MEANT FOR ANY TYPE OF FUNCTION OR GATHERING, SUCH AS CONSULATE MEETINGS, GROUP ACTIVITY, ETC.	
STORAGE (ADDED TO EXISTING WAREHOUSE)	500
LAUNDRY	1500
LAUNDRY FOR BOTH THE CHILDREN'S BELONGINGS AND THE LAUNDRY FROM THE BEDROOMS	
KITCHEN	800
KITCHEN FOR THE DINING AREA	
TELEPHONE BANK	1000
CHECK-IN AREA	1200
TOTAL	GROSS 68,700
	NET (75%) 91,600

SEVEN | PRECEDENTS

PRECEDENT

BAYREUTH YOUTH HOSTEL

ARCHITECT: LAVA

LOCATION: BAYREUTH, GERMANY

AREA: 3400 SQM



LAVA'S DESIGN IS A YARDSTICK FOR THE SPORTS HOSTEL OF THE FUTURE THROUGH INNOVATIVE SPATIAL CONFIGURATIONS, SUSTAINABILITY AT ENVIRONMENTAL, AND STRUCTURAL AND SOCIAL LEVELS, AND INTEGRATED SPORTING FACILITIES. THE HOSTEL OFFERS AN ABUNDANCE OF FLEXIBLE PUBLIC SPACES FEATURING BRIGHT COLOURS AND SOARING WINDOWS OVERLOOKING THE BAVARIAN LANDSCAPE.

I CHOSE THIS PRECEDENT BECAUSE THE VARIETY OF PROGRAM IN THE BUILDING. THE SPACES CONSIST OF MULTIPURPOSE EVENT ROOMS, OUTDOOR ACTIVITY SPACES, LOUNGES, TERRACES, AND COMMON AREAS.

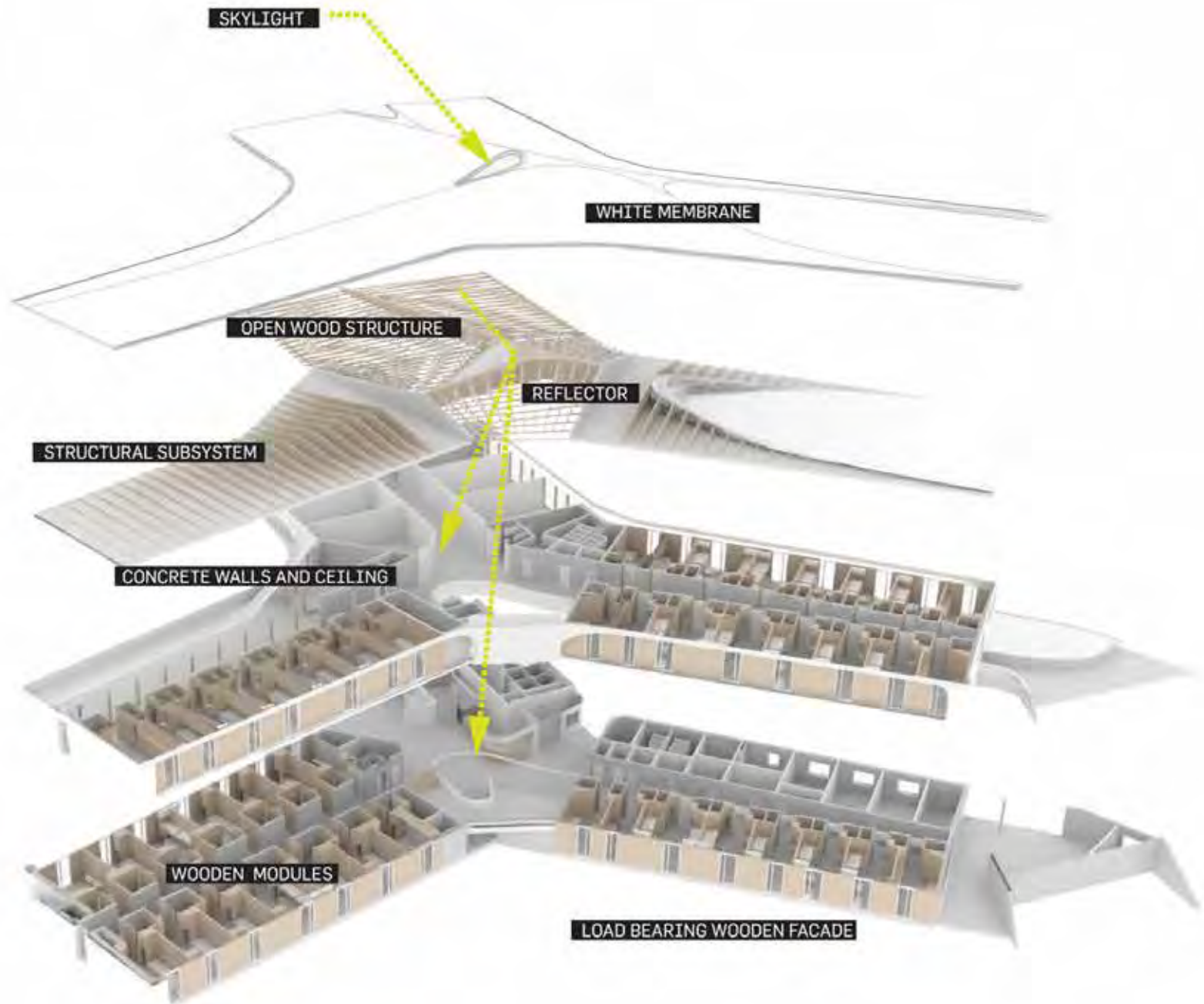
PRECEDENT

THE LETTER 'Y' IS THE SHAPE OF A NEW 180-BED SPORTS YOUTH HOSTEL IN BAYREUTH, GERMANY.

LAVA'S DESIGN IS A YARDSTICK FOR THE SPORTS HOSTEL OF THE FUTURE THROUGH INNOVATIVE SPATIAL CONFIGURATIONS, SUSTAINABILITY AT ENVIRONMENTAL, AND STRUCTURAL AND SOCIAL LEVELS, AND INTEGRATED SPORTING FACILITIES. THE HOSTEL OFFERS AN ABUNDANCE OF FLEXIBLE PUBLIC SPACES FEATURING BRIGHT COLOURS AND SOARING WINDOWS OVERLOOKING THE BAVARIAN LANDSCAPE.

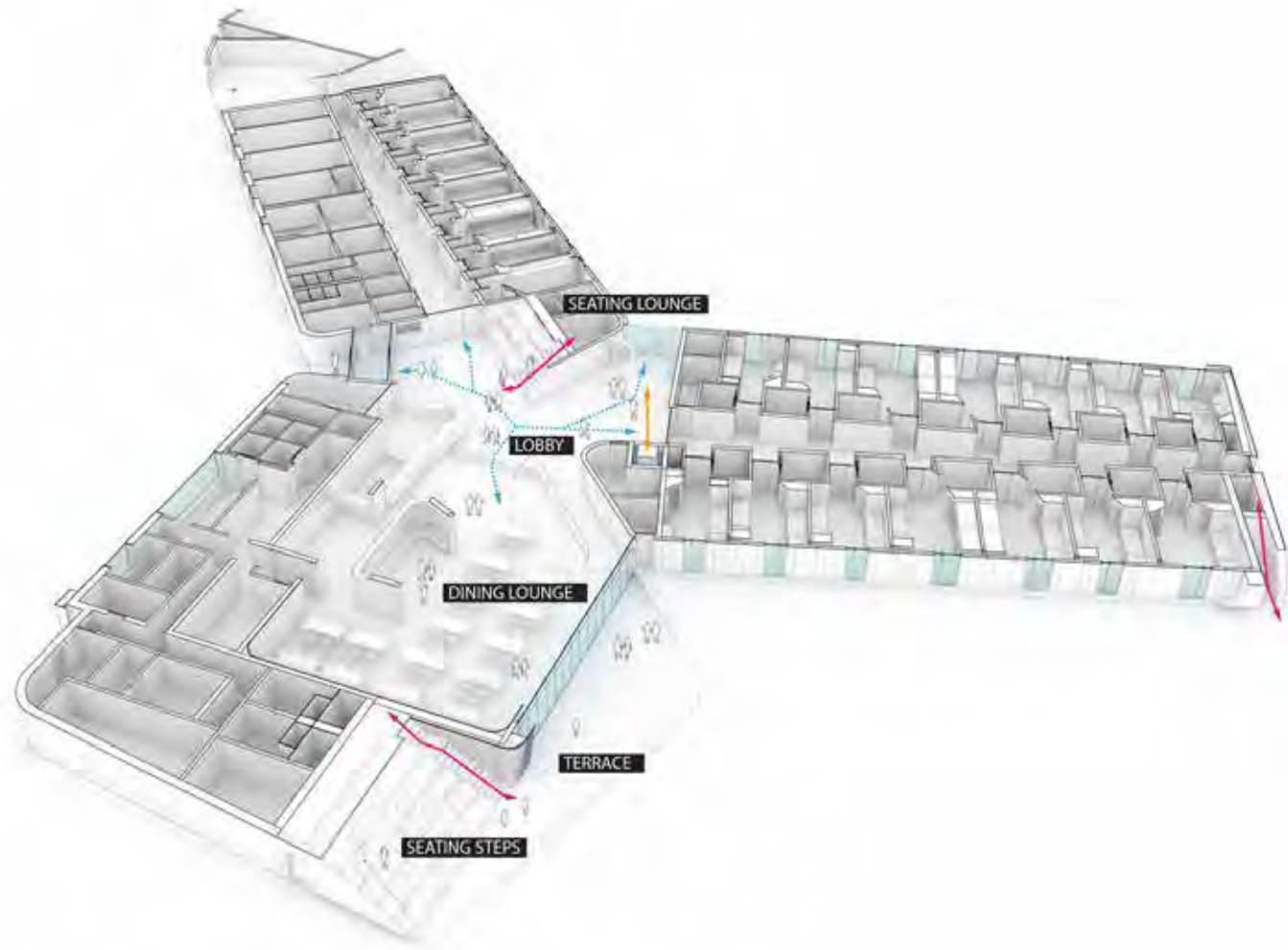
LAVA CHOSE THE 'Y' SHAPE BECAUSE IT GENERATES A CONNECTIVE AND BEAUTIFUL CENTRAL SPACE OFFERING EXPANSIVE VIEWS AND MULTIPLE OPENINGS TO THE SPORT FIELDS AND GARDENS. THE CENTRAL ATRIUM IS A HUB FOR OFFLINE AND ONLINE ENTERTAINMENT, INTERACTION AND COMMUNICATION. HERE A SKYLIGHT PROVIDES NATURAL DAYLIGHT TO A CENTRAL AMPHITHEATRE THAT CONNECTS THE DIFFERENT LEVELS, WHILST HORIZONTAL AND DIAGONAL SIGHTLINES DIRECT GUESTS TO DIFFERENT BUILDING FUNCTIONS.

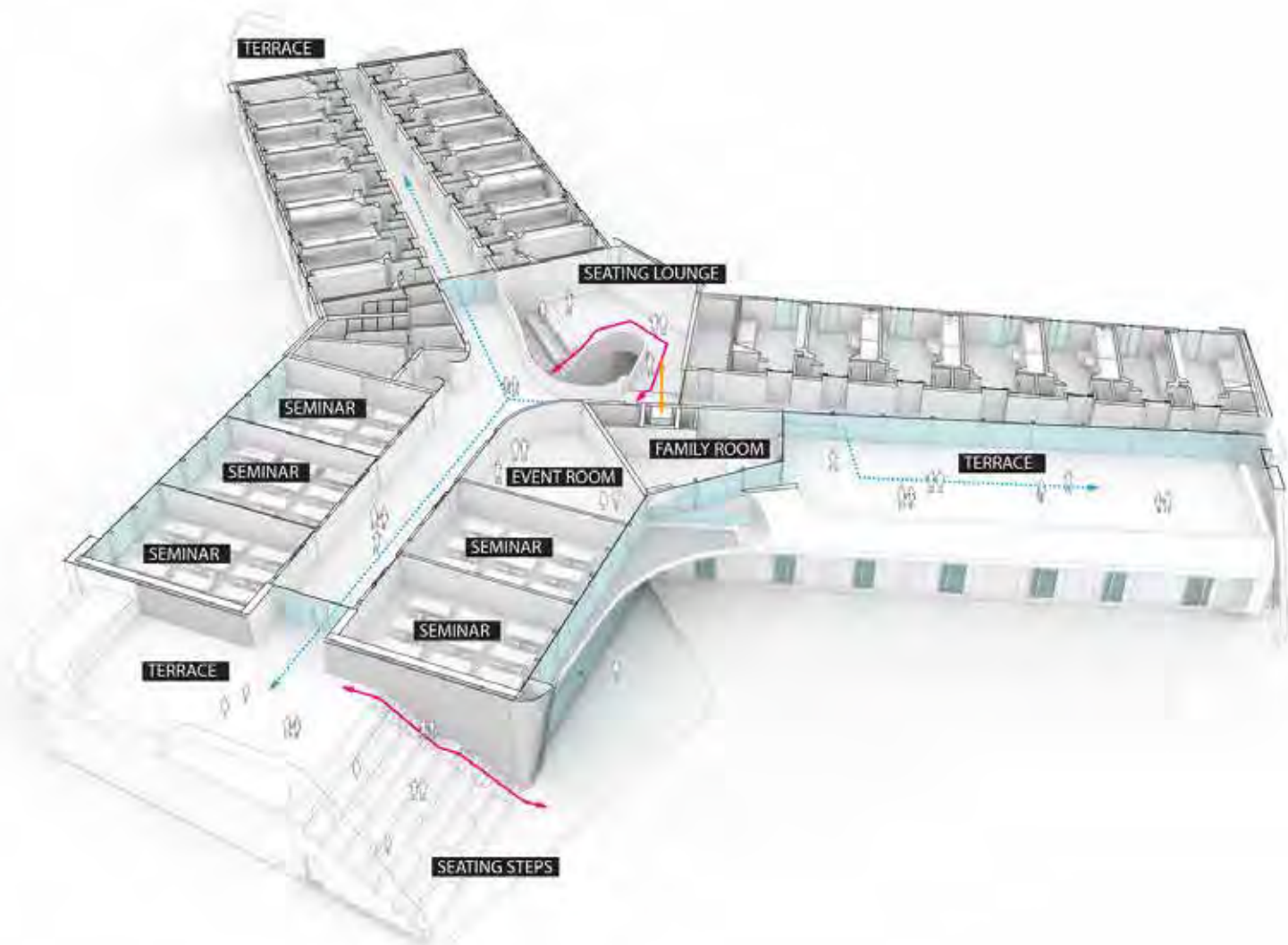




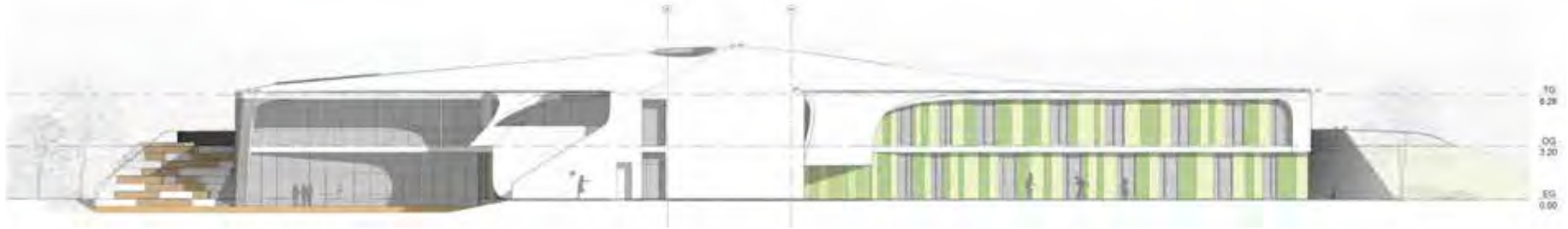
PRECEDENT

A FOCUS ON SPORT WAS THE CATALYST FOR THE DESIGN, INSPIRING LAVA TO PROVIDE UNIQUE VANTAGE POINTS OF THE ADJACENT SPORTS PITCHES FROM EACH OF THE BEDROOMS. THE COMPLEX FEATURES A SERIES OF HYBRID INDOOR-OUTDOOR SPACES DESIGNED FOR WARMING UP, PRACTICING, AND PLAYING CASUAL GAMES. THE OPEN-CONCEPT STYLE OF THE FACILITY IS DESIGNED TO ACTIVATE THE SPACE AND PROVIDE OPPORTUNITIES TO WORK, PLAY AND EXERCISE. THE FACILITY WILL ALSO INCLUDE A BISTRO, KITCHEN, AN OUTDOOR TERRACE AND PLENTY OF SPACE TO ROAM THE BAVARIAN LANDSCAPE.





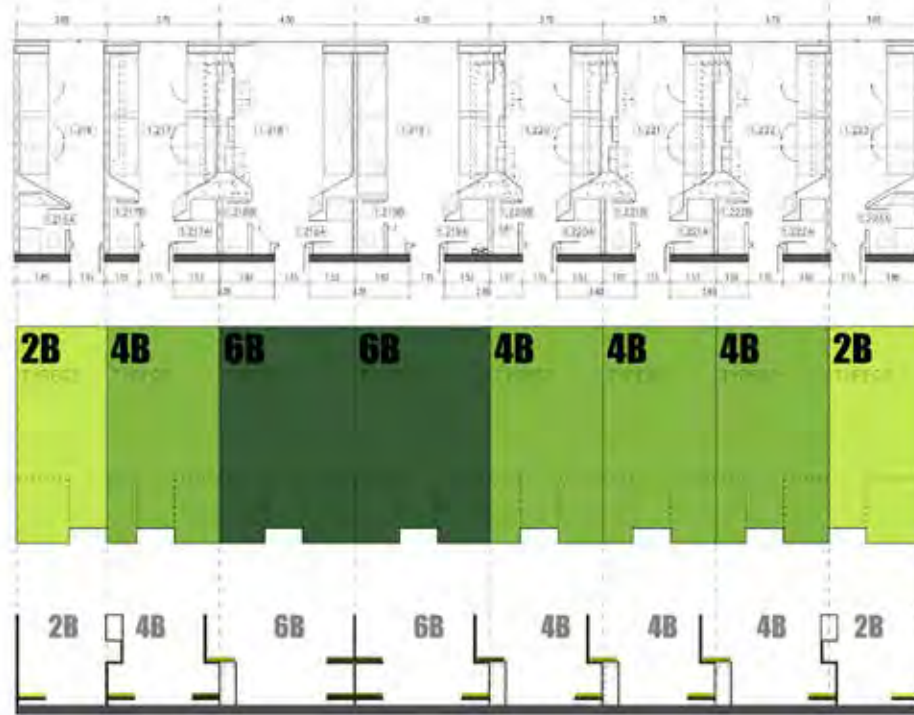
PRECEDENT



Elevation South - East
1 : 100



Elevation South - West
1 : 100

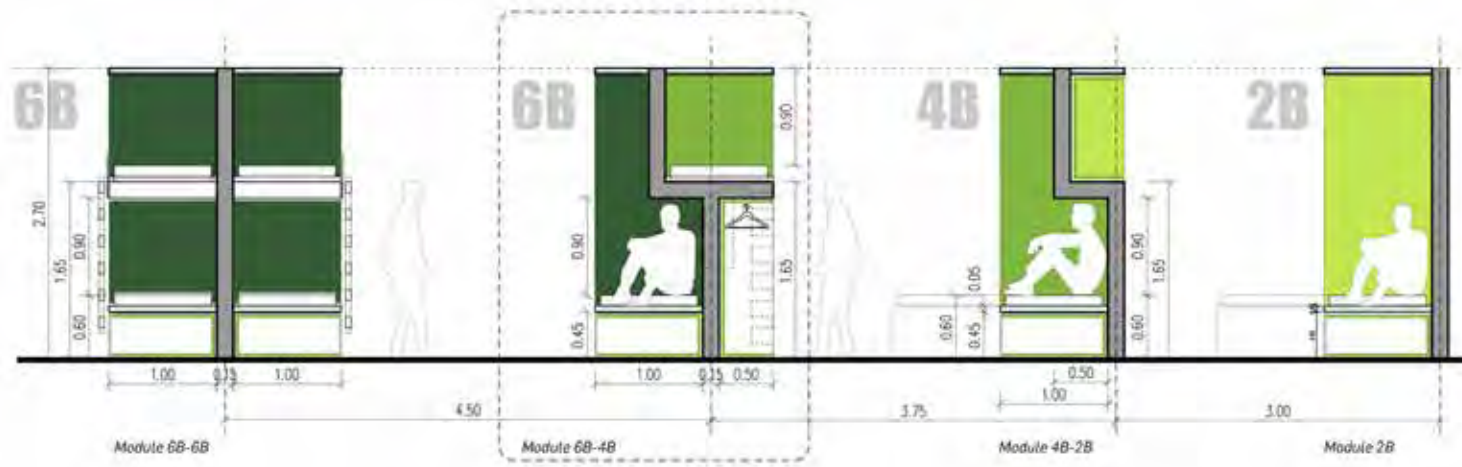


THERE ARE FLEXIBLE ROOM WALLS WITH CONTEMPORARY MODULAR 'BUILT-IN FURNITURE' ELEMENTS; AND ROOMS, GROUNDS AND SPORTS FIELDS ARE ALL WHEELCHAIR ACCESSIBLE.

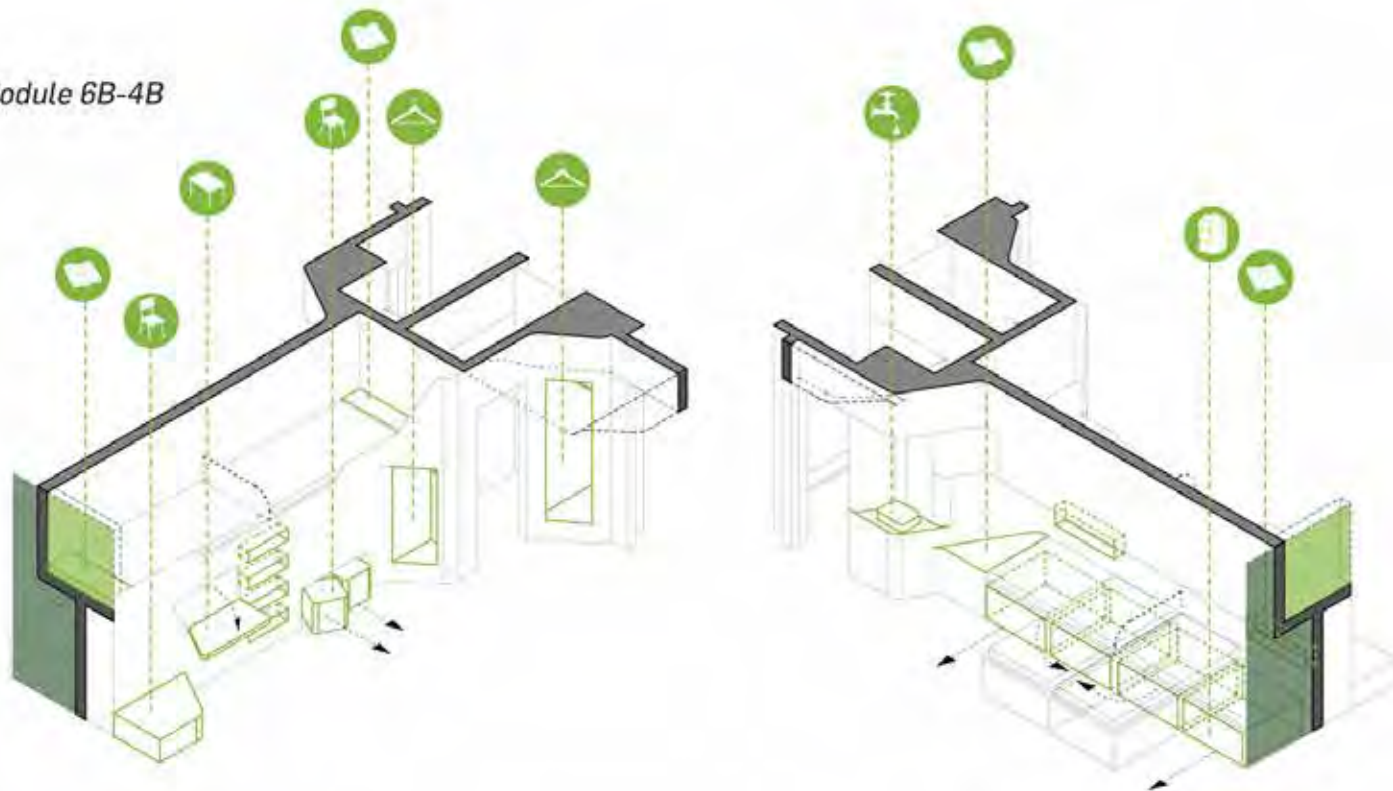
THE DESIGNER AGE MEANS GEN Y TRAVELLERS WANT FUNKY DESIGN, ACCESS TO ONLINE AND COMMUNITY, UNIQUE EXPERIENCES, NOT JUST A CLEAN BED AND SHOWER.

MODULAR BEDROOM UNITS FEATURING A COMBINATION OF TWO, FOUR AND SIX BEDS PLACED THROUGHOUT THE HOSTEL WILL OFFER MAXIMUM VERSATILITY FOR VISITING SPORTS TEAMS AND INDIVIDUAL GUESTS, SIMULTANEOUSLY CREATING OPPORTUNITIES FOR NETWORKING IN THE IN-BETWEEN SPACES. AMENITIES IN THE MODERN BEDROOMS INCLUDE HEATED FLOORS, IN-ROOM BATHROOMS, FLOOR-TO-CEILING WINDOWS AND COLLAPSIBLE DESK SPACE.

PRECEDENT

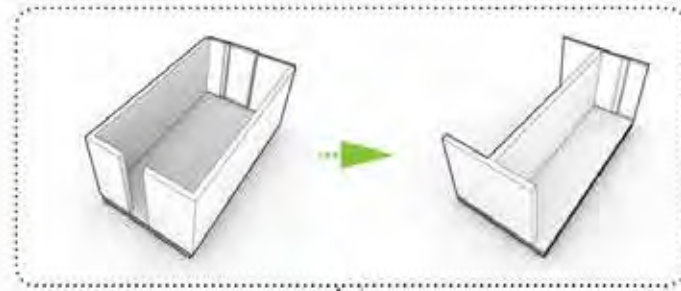


Module 6B-4B

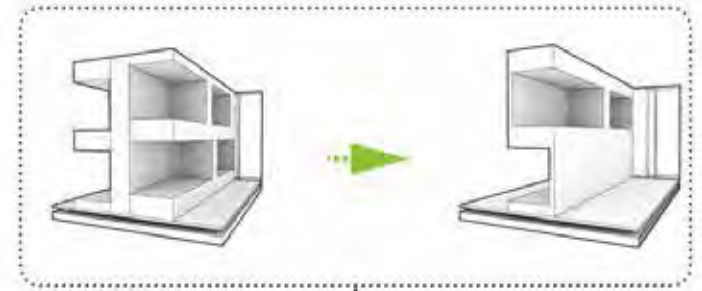




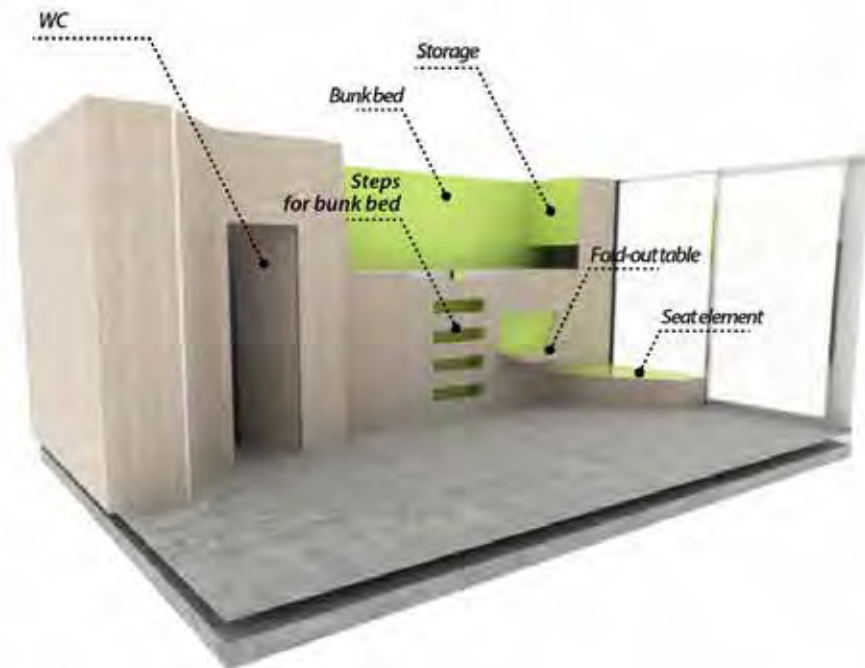
Positive - Negative



Room to wall

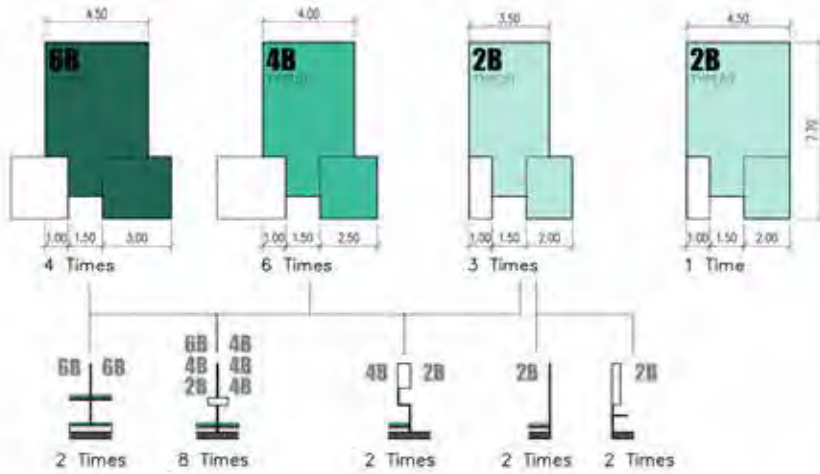


Customized wall module

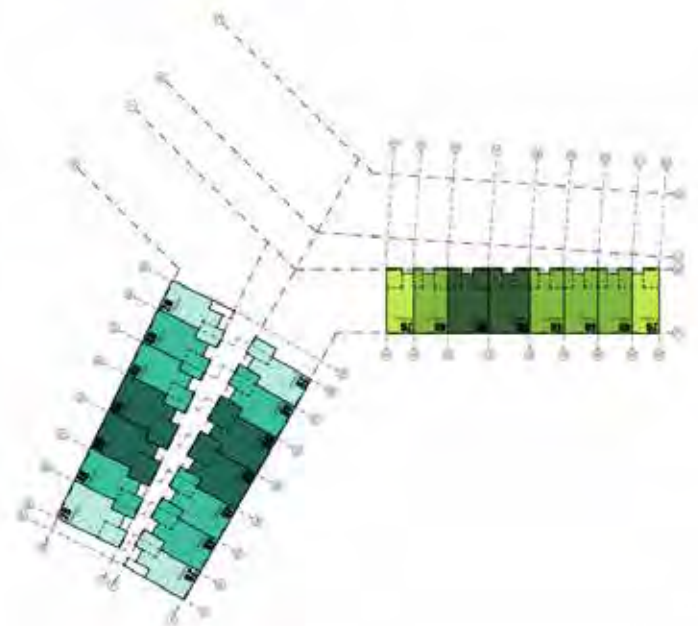
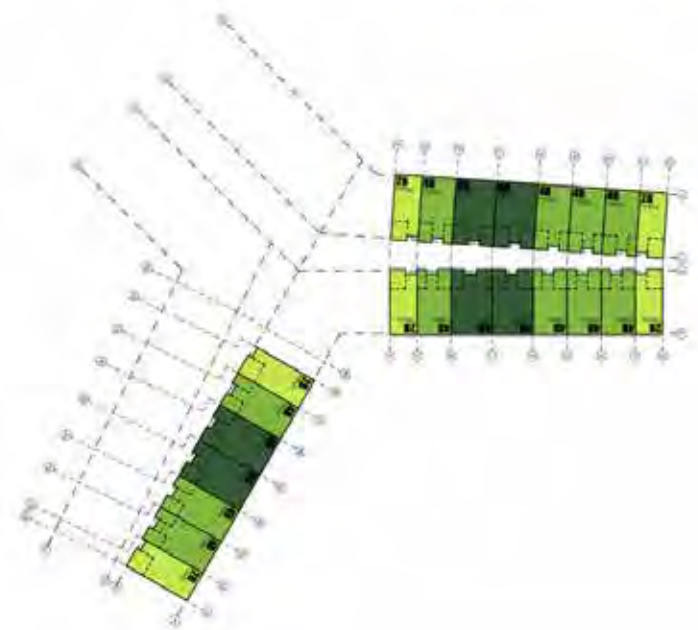
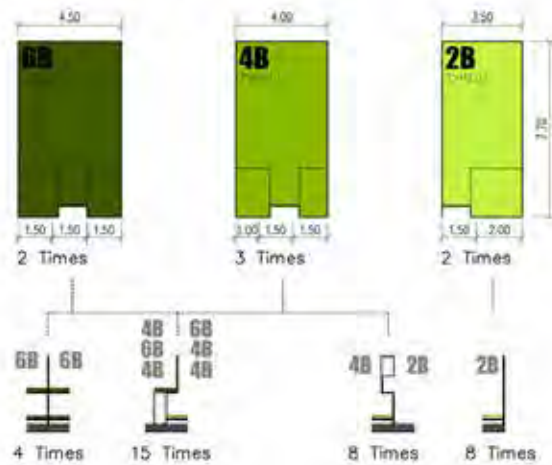


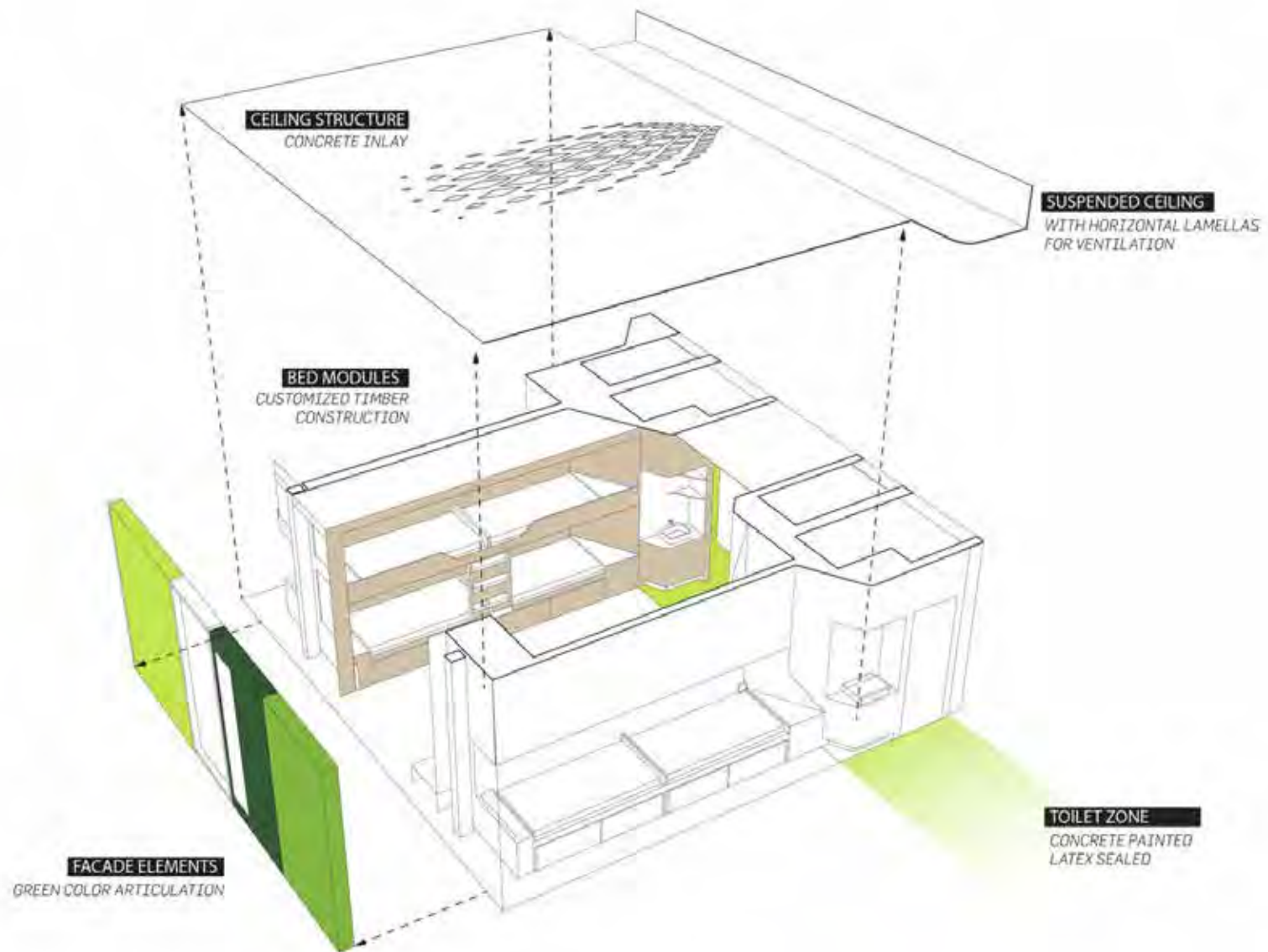
PRECEDENT

WHEELCHAIR ACCESSIBLE MODULE



STANDARD MODULE





PRECEDENT

CHILDCARE CENTRE IN LOMME

ARCHITECT: COLBOC FRANZEN & ASSOCIES

LOCATION: LILLE, FRANCE

AREA: 1277 SQM



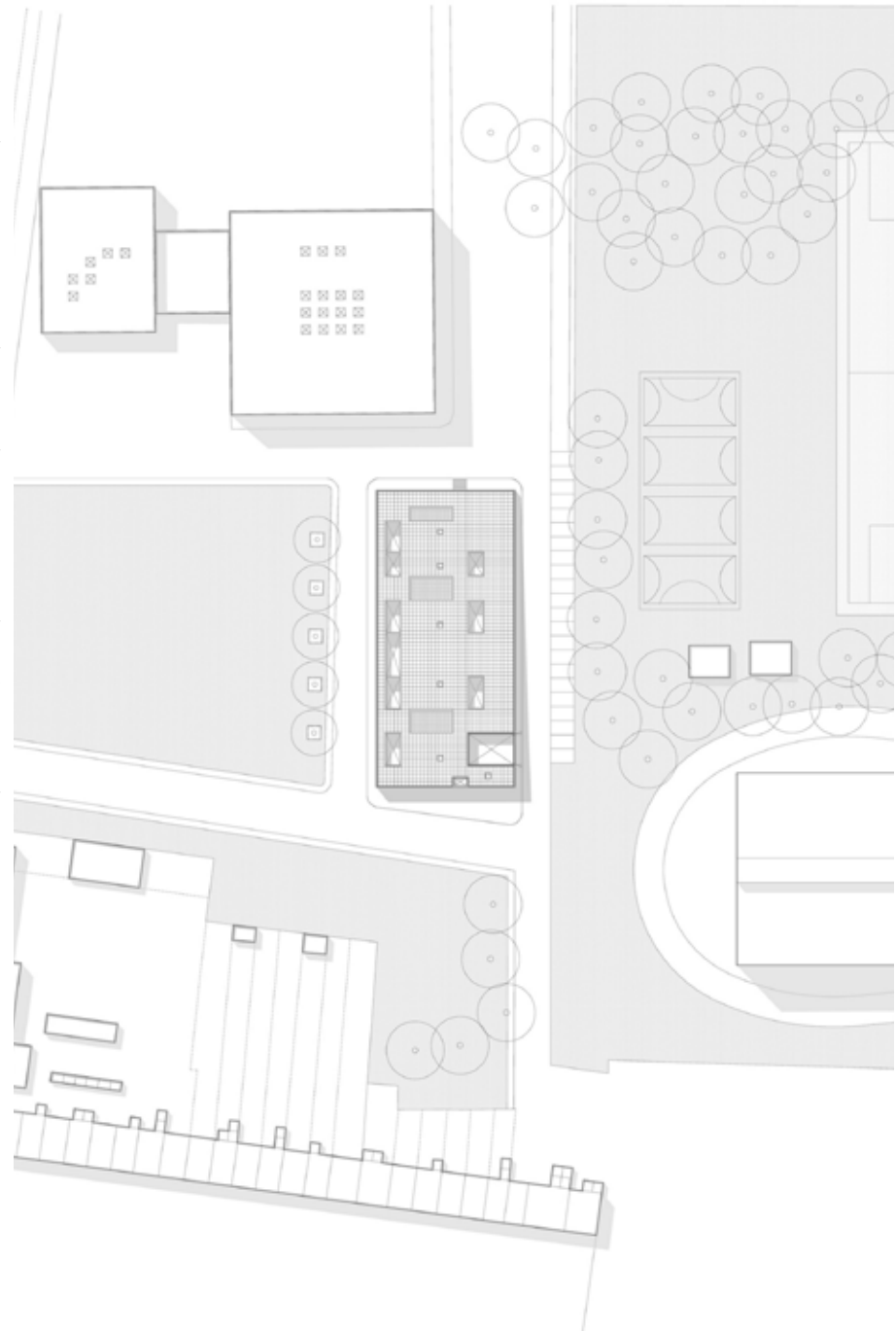
THE CHILDCARE CENTRE IS ACTUALLY A VILLAGE FOR SMALL CHILDREN. EACH HOUSE IS DESIGNED FOR A DIFFERENT PURPOSE AND A DIFFERENT AGE GROUP, BUT IS ALSO ADAPTED TO SPECIFIC RHYTHMS, LIGHTING AND SPACES. GLASS WALLS PROVIDE A VISUAL CONTINUITY BETWEEN THE GARDEN, THE OUTDOOR PLAYGROUNDS, THE PATIO, THE LIVING AREAS AND THE INDOOR STREET TO ALLOW SMALL CHILDREN TO GET THEIR BEARINGS, ENCOURAGE THEM TO SOCIALIZE AND EXPLORE.

BECAUSE MY PROJECT WILL DEAL WITH DIFFERENT AGE GROUPS AND GENDERS, THIS PRECEDENT WILL BE CRUCIAL IN HOW I DEAL WITH THE MIXING OF THOSE TYPES OF PROGRAM SPACES.

PRECEDENT

THE CHILDCARE CENTRE IS CONFINED SITUATED TO THE SOUTH OF THIS TO THE GROUND FLOOR, MAKING THE STREET. THE INFANT CENTRE HAS MOST OF THE FACT THAT THE BUILD- AN 18-CRIB SECTION NEAR THE EN- ING SITE IS A RECTANGULAR, ALMOST TRANCE AND THEN THREE FURTHER PERFECTLY HORIZONTAL PLOT WITH A 18-CRIB UNITS. ALL OF THESE OPEN SURFACE AREA IS ALMOST EXACTLY OUT TO THE SOUTH ONTO COVERED THE SAME SIZE AS THE PROJECT IT- AND OPEN PLAYGROUNDS, A GARDEN SELF (INCLUDING ITS GROUNDS). THIS AND A VEGETABLE PATCH. NORTH FACILITATES THE TEACHERS, WORK OF THE INDOOR STREET ARE THE RE- AND MAKES IT EASY FOR CHILDREN TO CEPTION, THE TOILETS, THE LAUNDRY GET AROUND. THE SPACE IS STRUC- AND AN OFFICE FOR THE NURSERY TURED AROUND AN INDOOR STREET NURSE, ALL OF WHICH ARE NATURAL- THAT RUNS THE WHOLE LENGTH OF LY LIT AND VENTILATED BY THREE THE BUILDING FROM EAST TO WEST. PATIOS. THESE PATIOS GIVE THE THE MAIN ENTRANCE IS LOCATED AT STREET EXTRA LIGHT AND LEND IT A THE WESTERN END OF THIS STREET RHYTHM THAT ENCOURAGES CHILDREN AND LOOKS OUT OVER THE ENTRANCE TO MAKE THE SPACE THEIR OWN. BE- TO THE PARK AND A NEARBY CAN- HIND THESE AREAS IS A CORRIDOR TEEN USED BY SEVERAL SCHOOLS. AN THAT ALLOWS SUPERVISORY STAFF OPEN-ACCESS ENTRANCE HALL MEANS TO GET TO THE MOTHER AND CHILD ALLOWS PARENTS WHO NEED TO WAIT CARE CENTRE, THE OFFICES, MEETING FOR THEIR CHILDREN TO DO SO UNDER AND STAFF ROOMS, AND THE KITCH- COVER AND AWAY FROM THE NOISE OF EN, WHICH IS NEXT TO THE SERVICE THE ROAD OUTSIDE. COURTYARD. THESE AREAS HAVE A

THE RECEPTION IS AT THE END OF NORTH. THIS INDOOR STREET IN ORDER TO MONITOR VISITORS AS WELL AS WEL- COME PARENTS, ESPECIALLY USERS OF THE MOTHER AND CHILD CARE CENTRE LOCATED BEHIND THE RECEPTION DESK AREA.



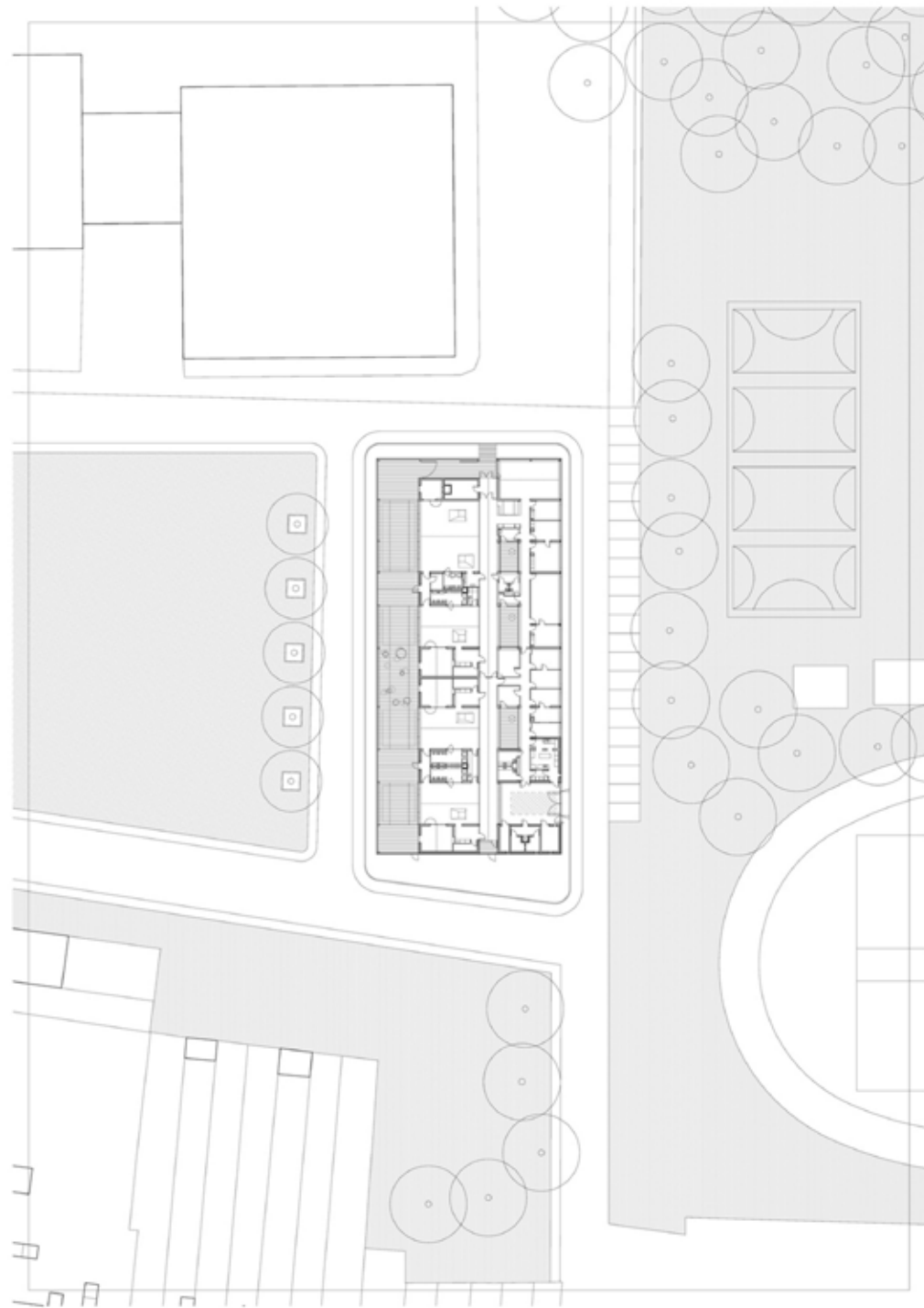


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PRECEDENT

THE CHILDCARE CENTRE IS ACTUALLY A VILLAGE FOR SMALL CHILDREN. EACH HOUSE IS DESIGNED FOR A DIFFERENT PURPOSE AND A DIFFERENT AGE GROUP, BUT IS ALSO ADAPTED TO SPECIFIC RHYTHMS, LIGHTING AND SPACES. IT OFFERS THE CHILDREN A VARIETY OF GENTLE AND CONTRASTING SENSORY STIMULI. SO THE LIVING SPACES, THE DORMITORIES, THE INDOOR STREET AND THE MOTHER AND CHILD CARE CENTRE'S WAITING ROOM ARE ALL SHAPED LIKE TYPICAL HOUSES WITH POINTED ROOFS. GLASS WALLS PROVIDE A VISUAL CONTINUITY BETWEEN THE GARDEN, THE OUTDOOR PLAYGROUNDS, THE PATIO, THE LIVING AREAS AND THE INDOOR STREET TO ALLOW SMALL CHILDREN TO GET THEIR BEARINGS, ENCOURAGE THEM TO SOCIALIZE AND EXPLORE, AND HELP THEM TO OVERCOME THEIR ANXIETY IN THE MORNING WHEN THEIR PARENTS LEAVE. THE FITTINGS ARE SUNK INTO THE FLOOR AND WALLS TO ENSURE UNBLOCKED VIEWS.





THE INTERIOR FITTINGS LIVE UP TO THE HIGHEST LEVELS OF HEALTH, SAFETY AND COMFORT WHILE ALSO TRYING TO CONCEAL THE STANDARDIZED FEATURES COMMONLY FOUND IN THIS KIND OF ESTABLISHMENT. FOR EXAMPLE, ONE DOESN'T NOTICE THE FINGER PROTECTION STRIPS COVERING THE HINGES BECAUSE THEY RUN THE WHOLE LENGTH OF THE DOOR. MOST OF THE TECHNICAL INSTALLATIONS, VENTILATION AND EXTRACTION, HANGERS AND RECESSED LIGHTS ON DIMMERS, USE ROUNDED, SOFT, FUN SHAPES. THE ACOUSTIC FITTINGS BECOME PATTERNS THAT BLEND IN WITH THE SCULPTED CEILINGS. ALL OF THESE DESIGN FEATURES COMBINE TO MAKE THE CENTRE MORE THAN JUST A COMMUNITY DAY-CARE FACILITY: IT IS A HOME FROM HOME FOR THE CHILDREN AND THEIR PARENTS.

PRECEDENT





PRECEDENT

BEIERSDORF CHILDRENS DAY CARE CENTRE

ARCHITECT: KADAWITTFELDARCHITEKTUR

LOCATION: HAMBURG, GERMANY

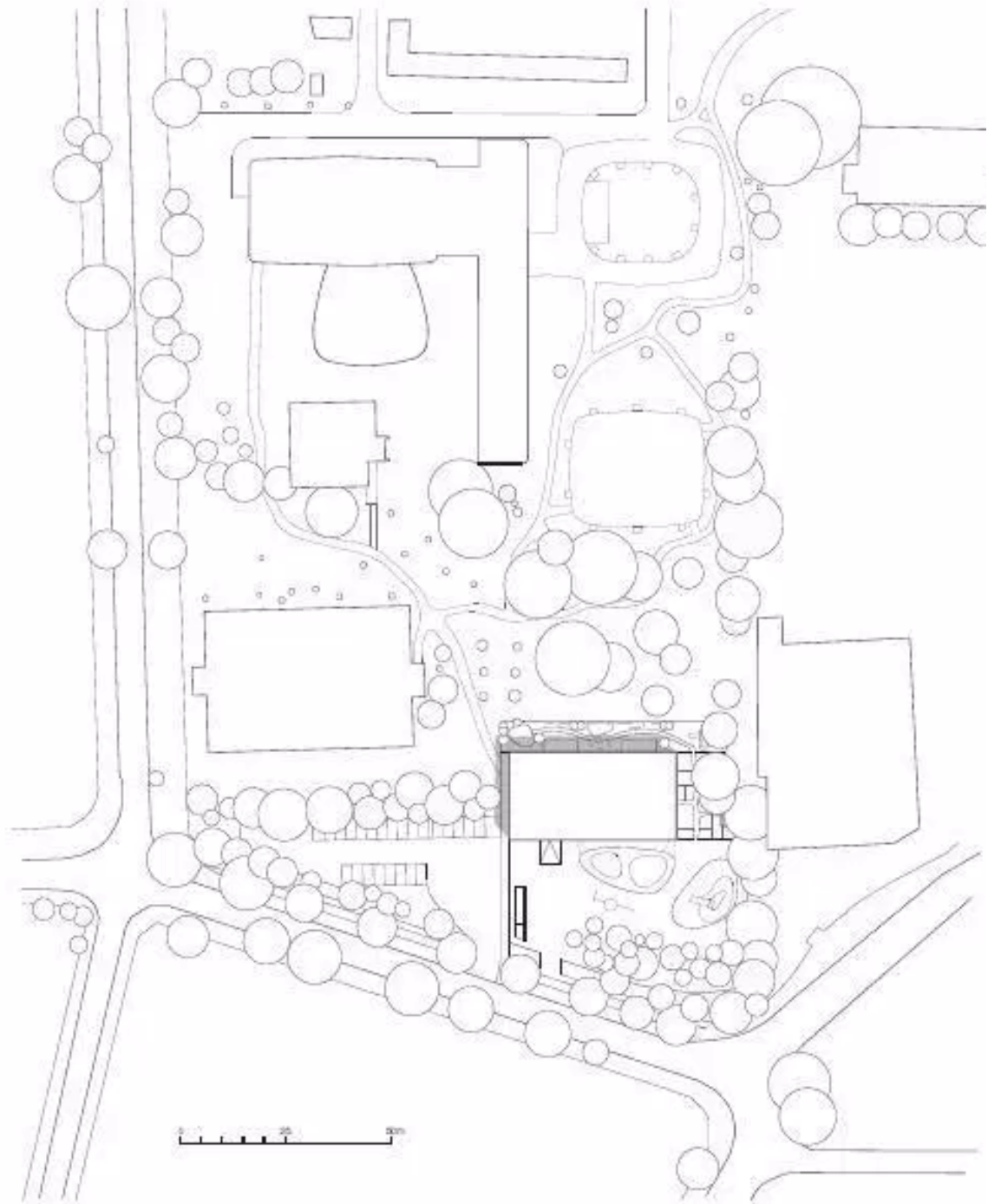
AREA: 1750 SQM



THE TWO-STORY BUILDING IS LOCATED NEXT TO A GREEN AREA ON THE INNER-CITY GROUNDS OF HAMBURG. THE EXTREMELY COMPACT RECTANGULAR STRUCTURE IS ARRANGED AROUND A CENTRAL, TWO-STORY MULTI-PURPOSE ROOM, WHICH FUNCTIONS AS A PLAY AREA AND GATHERING SPACE. FEATURING A SHELF-LIKE STRUCTURE, THE FACADE CATERS FOR A VARIETY OF FUNCTIONS AND REQUIREMENTS AND, AT THE SAME TIME, CREATES A LIGHT AND TRANSPARENT ATMOSPHERE INDOORS. THE LARGE WINDOW FORMATS PROVIDE PERFECT CONDITIONS FOR PLAY AND EDUCATIONAL WORK.

THE PLAYFUL FACADE AND FLEXIBILITY OF SPACES ARE QUALITIES I WANT TO PROPOSE FOR MY PROJECT. THESE ASPECTS WILL LIVEN UP MY PROGRAM AND MAKE THE CENTER MORE COMFORTING TO THE CHILDREN.

PRECEDENT





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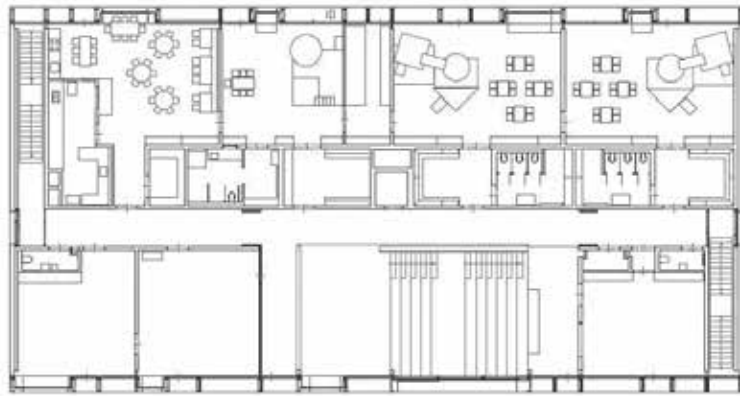


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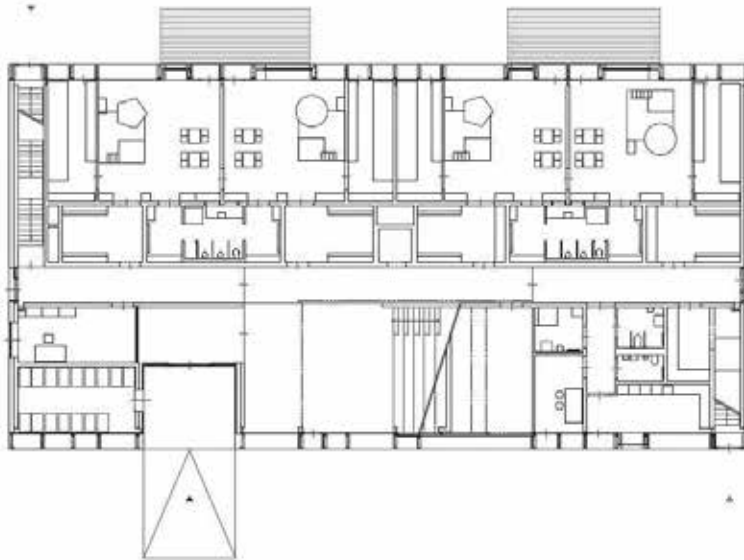
PRECEDENT

THE INSERTED COLOURED FRAMES SHAPE AND STRUCTURE THE FACADE ON THE OUTSIDE AND OFFER THE CHILDREN A SENSE OF DIRECTION AND A WAY OF IDENTIFYING WITH THEIR GROUP. ON THE INSIDE, THE FRAMES ARE ACCESSIBLE AND SUPPLEMENT THE PLAY AREA WITH EXCITING ELEMENTS: PLATFORMS, BOXES, SPACES TO SIT, CLIMB AND PLAY, DESIGNED TO STIMULATE THE CHILDREN'S CREATIVITY AND IMAGINATION.





FIRST FLOOR PLAN



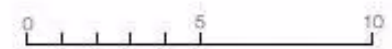
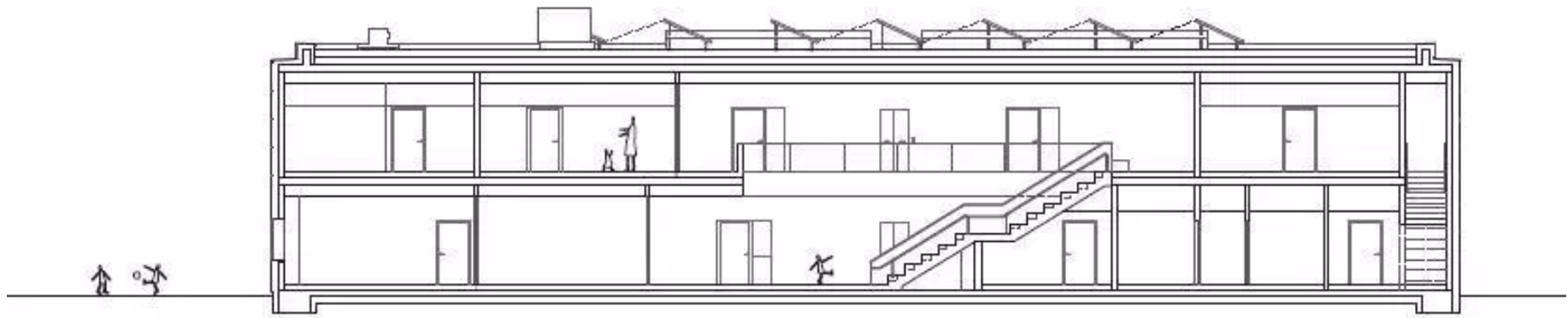
SECOND FLOOR PLAN

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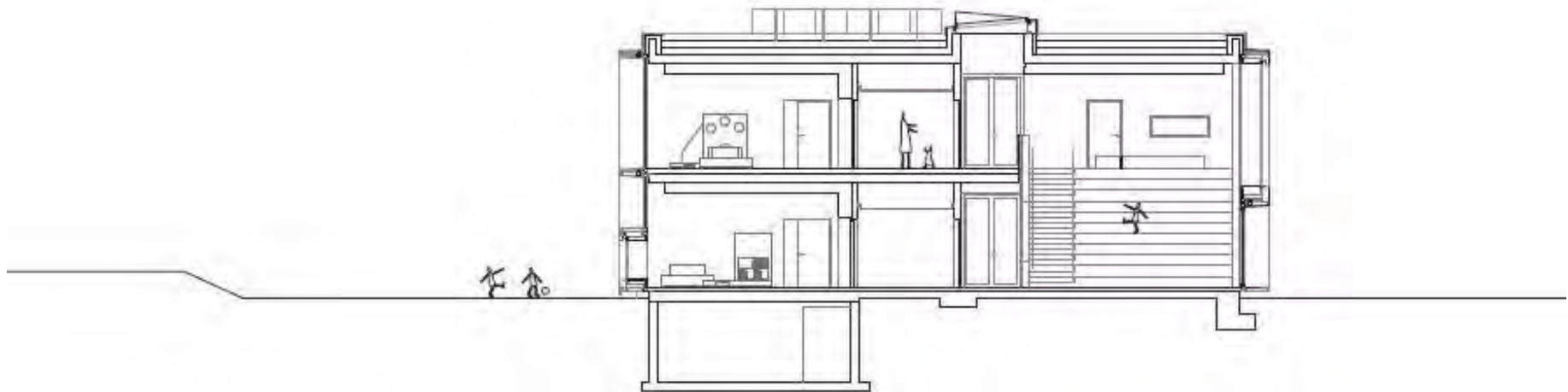


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PRECEDENT



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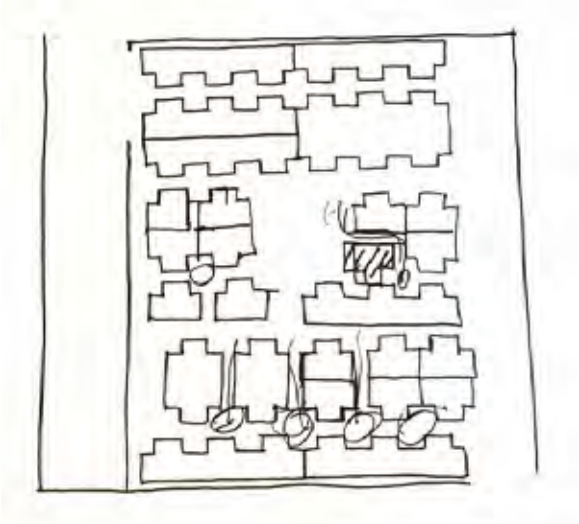
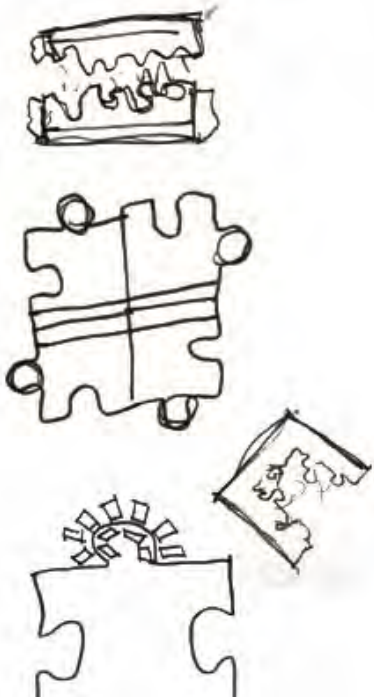
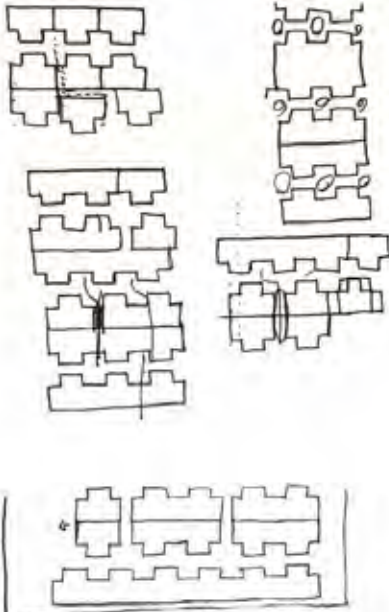
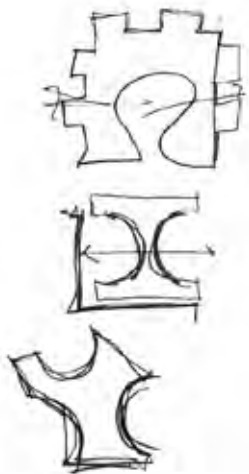


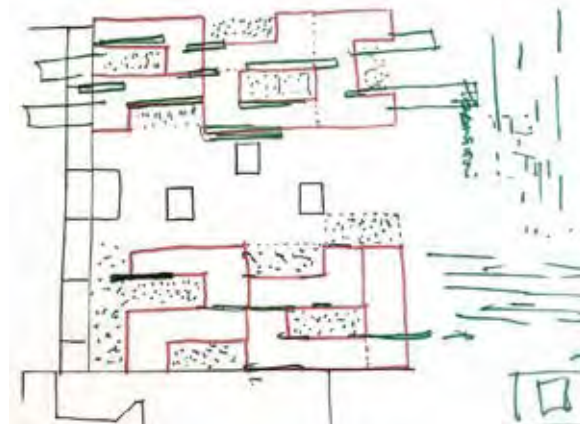
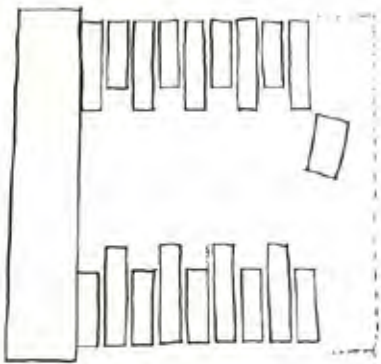
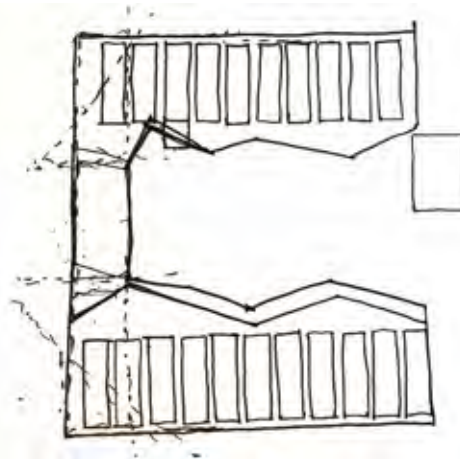
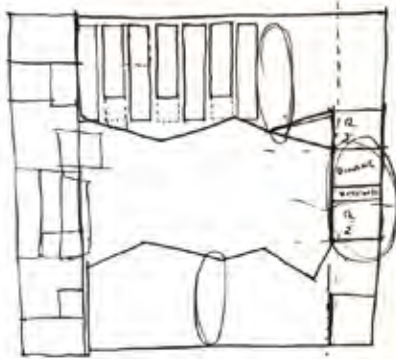
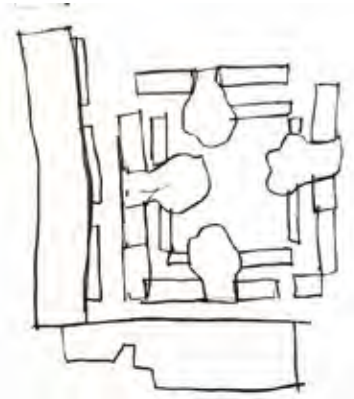
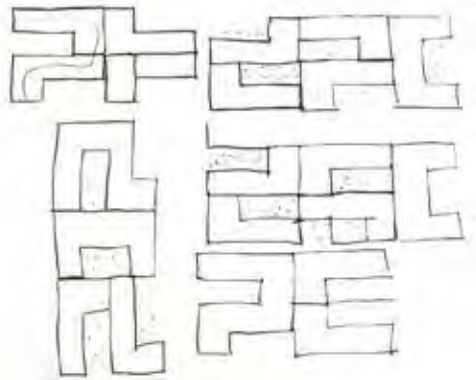
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EIGHT | FINAL PROJECT

PRELIMINARY SKETCHES





MY GOAL FOR THIS DESIGN WAS TO CREATE A SECURE, COMFORTABLE, AND SAFE ENVIRONMENT FOR THESE CHILDREN. I WANTED TO PROVIDE A SENSE OF HOME AND RELIEF FOR THEM AFTER TRAVELING SO FAR AND LONG. THEIR ACCESS TO OUTDOOR SPACE IS CRUCIAL AND THE COMFORT OF THE SLEEPING UNITS EVEN MORE SO. BECAUSE OF THE LARGE NUMBER OF CHILDREN USING THE FACILITY, I ALSO TOOK INTO CONSIDERATION THE VARIETY OF ACTIVITIES THERE MUST BE FOR THEM. WITH SECURITY BEING AN ISSUE, THE STAFF WILL BE A LARGE FACTOR IN THE DESIGN. BY INTEGRATING ALL OF THESE CONCEPTS, I BELIEVE I HAVE CREATED A COMPLEX THAT IS AN "OASIS IN THE DESERT" OF SORTS.





ARRIVAL	PRIVATE	COMMUNITY	SERVICE
WAITING AREA	FAMILY UNITS	LOUNGE/TV/GAME CENTER	MULTIPURPOSE
MEDICAL CENTER	INFANT UNITS	CRAFT AREA	STORAGE
PATIENT ROOMS	TYPICAL UNITS	LEARNING CENTER	(ADDED TO EXISTING WAREHOUSE)
CLOTHING BANK		DINING HALL	LAUNDRY
PROCESSING		STADIUM	KITCHEN
U.S. CENTER			SECURITY
IMMIGRATION			STAFF OFFICES
TELEPHONE BANK			NUSERY
16,200 SQFT	67,840 SQFT	10,170 SQFT	21,550 SQFT

TOTAL SQUARE FOOTAGE : APPROX. 115,760



LONGITUDINAL SECTION

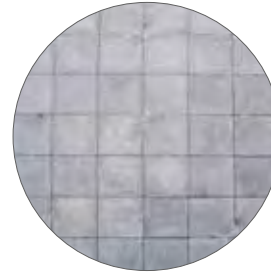
CURRENTLY, THERE IS AN EXISTING WAREHOUSE ON THE SITE WHERE THE CHILDREN ARE BEING HELD. THE NOGALES LOCATION ISN'T EQUIPPED TO HANDLE THIS TYPE OF CONDITION SO THEY TRANSFORMED THEIR STORAGE WAREHOUSE INTO HOUSING OF SORTS. I HAVE CHOSEN TO DEMOLISH THE MAJORITY OF THE WAREHOUSE, LEAVING A SLIVER ON THE WEST SIDE OF THE BUILDING FOR THEIR REMAINING STORAGE AND TO HOUSE THE SERVICE PROGRAM FOR THE COMPLEX (I.E, OFFICES, MULTIPURPOSE, DINING HALL, KITCHEN) WHEN THE CHILDREN ARE BROUGHT TO THE CENTER, THEY ENTER THROUGH THE EXISTING WAREHOUSE (THAT HAS BEEN REDESIGNED) INTO A WAITING AREA. FROM THERE, THEY ARE PROCESSED THROUGH A MEDICAL FACILITY, IMMIGRATION, AND A CLOTHING BANK. THERE IS ALSO A SEPARATE PROCESSING AREA IN CASE SOMEONE COMING IN HAS MENTAL ISSUES OR THERE IS ANY OTHER SORT OF PROBLEM. THIS WAY THE SITUATION CAN BE HANDLED IN A DIFFERENT AREA. THERE IS ALSO A TELEPHONE BANK IN THIS ZONE FOR THE CHILDREN TO CALL FAMILY MEMBERS. MANY CHILDREN COMING INTO THE COUNTRY ARE PLANNING ON LIVING WITH RELATIVES IN THE STATES. AFTER THE PROCESSING, THE CHILDREN ARE TAKEN TO THEIR ROOMS.



WAREHOUSE ELEVATION



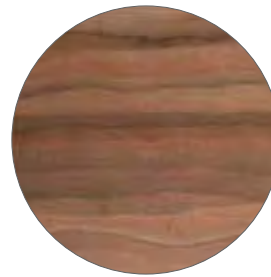
THE MATERIALS I CHOSE FOR THE SITE ARE ORGANIC AND NATURAL TO THE ENVIRONMENT IN ARIZONA. STOVE PAVERS REGULATE THE HEAT FOR THE PATHS THROUGHOUT THE SITE. THE RAMMED EARTH WALL IS THE RETAINING WALL FOR THE INTERIOR OF THE CENTRAL SPACE. THIS PARTICULAR WALL IS USED OFTEN IN DESERT CONSTRUCTION. THE PLANT LIFE I CHOSE IS ALL LOW-WATER VEGETATION. MEANING THAT THESE PLANTS AND TREES DO NOT NEED A LOT OF WATER OR HYDRATION TO SURVIVE.



STONE PAVERS



FRUITLESS OLIVE



RAMMED EARTH



HYBRID PALO VERDE



MESQUITE GRASS



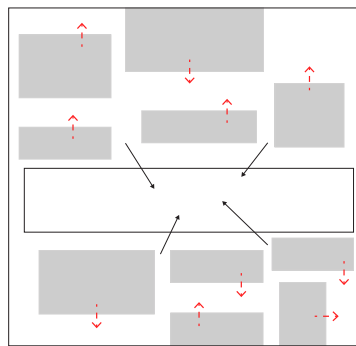
MASTIC TREE



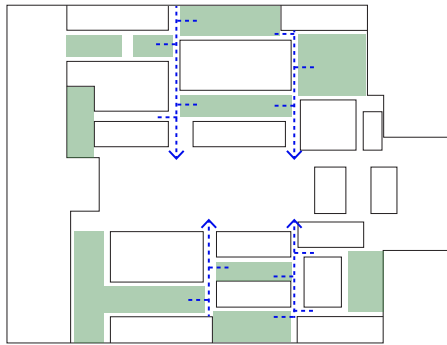
MY CONCEPT BEHIND THE OVERALL DESIGN WAS TO CREATE OUTDOOR SPACES SCATTERED THROUGHOUT THE COMPLEX WITH A LARGER CENTRAL SPACE FOR COMMUNITY GATHERING. EACH UNIT OPENS UP TO AN OUTDOOR SPACE OF SOME SORT. SOME OF THE UNITS FACE EACH OTHER AND SHARE A ZONE WHILE OTHERS FACE JUST THE OPEN SPACE. A PATH SYSTEM CONNECTS THE INTERMEDIATE OUTDOOR SPACES WITH THE LARGE COMMUNITY SPACE. TWO MAIN AXIS PATHS RUN PERPENDICULAR TO THE CENTRAL SPACE AND THE SMALLER SPACES BRANCH OFF OF THOSE.

BECAUSE THE AGE GROUP VARIES FROM 0-17, CERTAIN CONSIDERATIONS NEED TO BE TAKEN INTO ACCOUNT. THE YOUNGER CHILDREN ARE IN THEIR OWN AREA OF THE COMPLEX THAT IS MORE CONTROLLED AND ENCLOSED. IT CONTAINS A SEPARATE NURSERY FOR THEM AS WELL AS STAFF ROOMS LOOKING IN ON THE OUTDOOR SPACE AND ALSO A COUPLE INTEGRATED WITHIN THE UNITS.

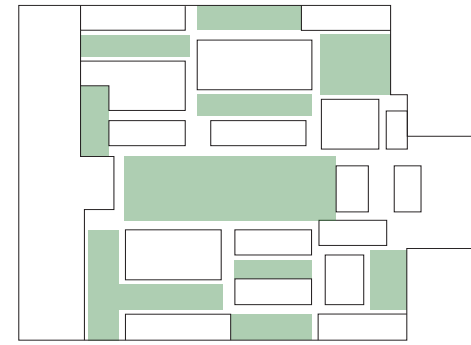
BECAUSE OF THE LARGE NUMBER OF CHILDREN HERE, THERE ARE STAFF ROOMS INTEGRATED WITHIN THE HOUSING UNITS TO WATCH OVER THE OUTDOOR SPACES AND KEEP AN EYE ON THE KIDS. EVERY FEW HOURS, THE STAFF MEMBERS WILL WALK THROUGH THEIR PORTION OF THE SITE AND MAKE SURE NOTHING IS OUT OF THE ORDINARY.



CONCEPT



CIRCULATION



OUTDOOR SPACE

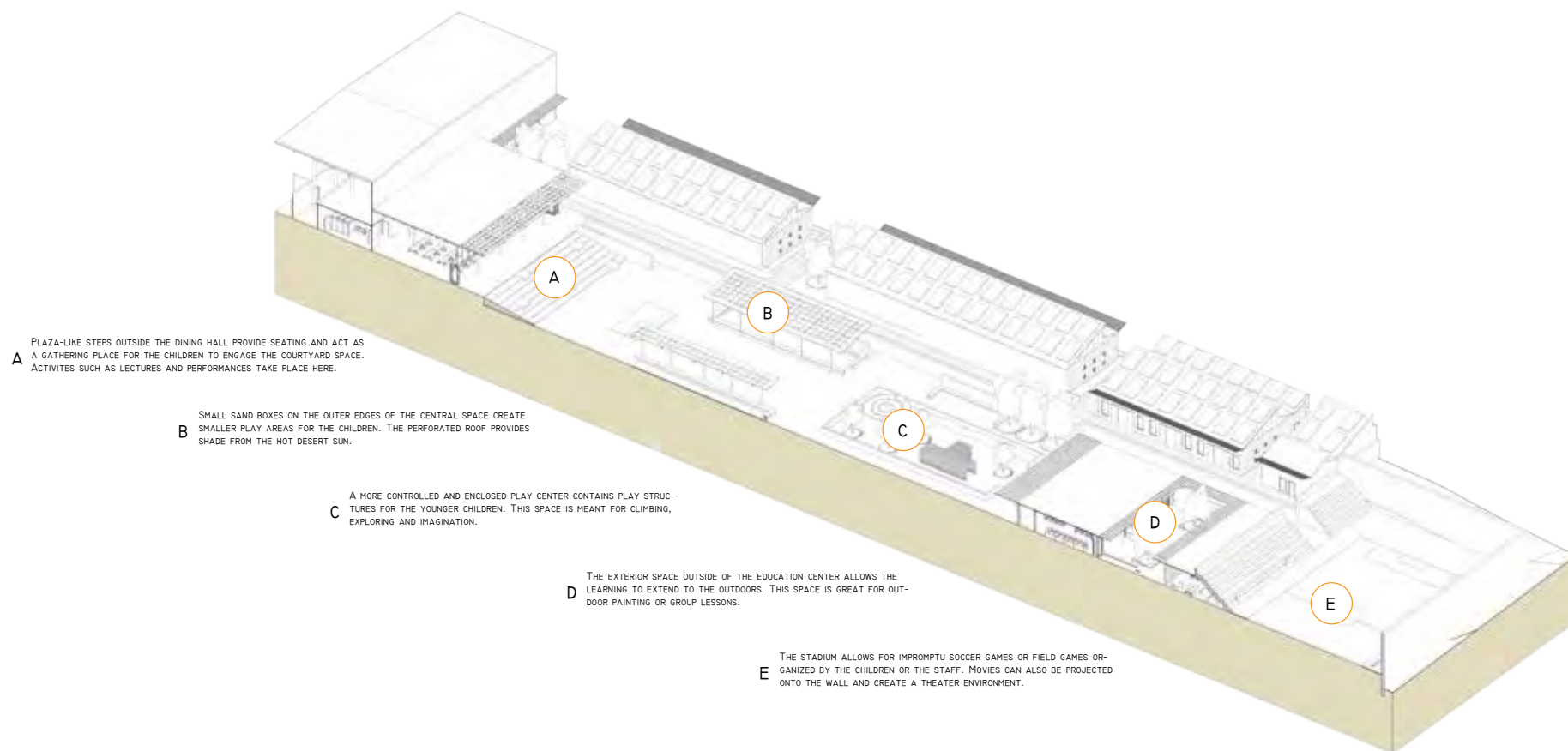


THE MAIN SPACE OF THE COMPLEX IS THE CENTRAL COURTYARD. SUNKEN DOWN 4 FEET, THE CENTRAL COURTYARD CONTAINS THE COMMUNITY SHARED SPACES SUCH AS A CRAFT CENTER, A LEARNING CENTER AS WELL AS THE DINING HALL AT ONE END OF THE SPACE AND THE PLAYING FIELDS AT THE OPPOSITE END. EACH SPACE HAS DIRECT CONNECTION TO THE OUTDOOR COURTYARD. THE LEARNING AND CRAFT CENTERS HAVE COVERED OUTDOOR SPACES USING PERFORATED METAL TO CREATE A SUN SHADING DEVICE. THE PLAYING FIELDS HAVE STADIUM-LIKE SEATS THAT ALLOW FOR A LOUNGE CENTER UNDERNEATH FOR THE KIDS TO WATCH SOME TELEVISION OR PLAY GAMES. THE COMMUNITY SPACES ARE THE SAME PANELIZED MATERIAL AS THE UNIT EXCEPT EACH SPACE IS A DIFFERENT COLOR SO THE CHILDREN CAN DIFFERENTIATE THE PROGRAMS.



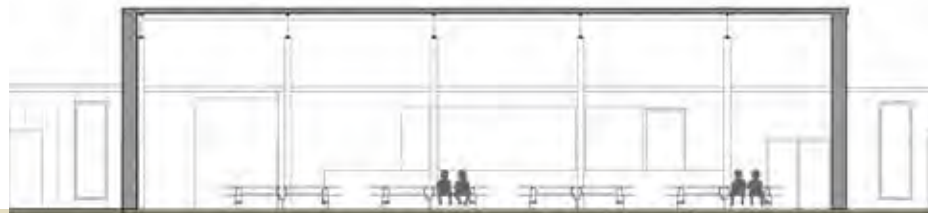








CRAFT/LEARNING CENTER



DINING HALL SECTION



STADIUM/PLAYING FIELD



STADIUM SECTION



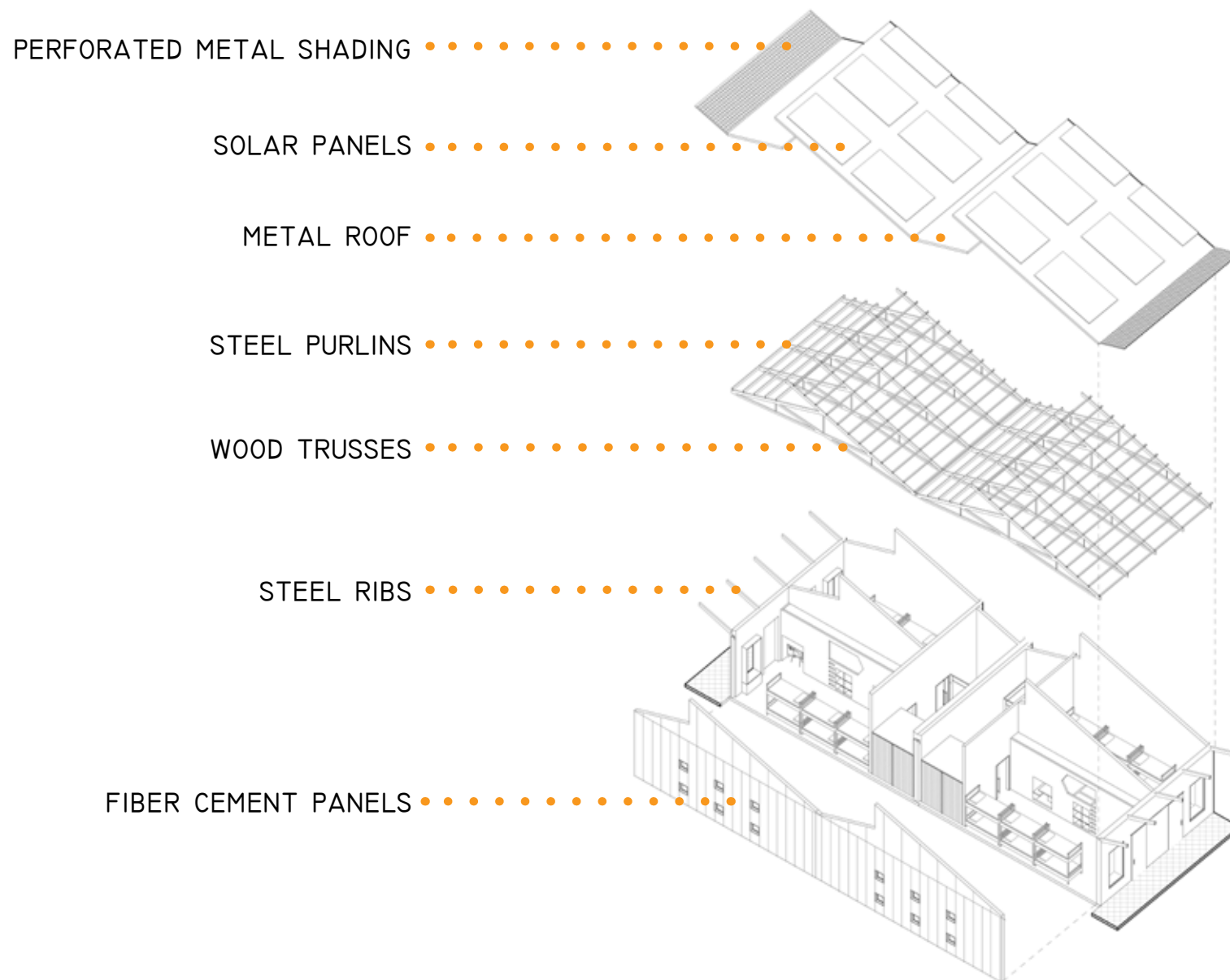
CRAFT/LEARNING CENTER SECTION



LONGITUDINAL UNIT SECTION

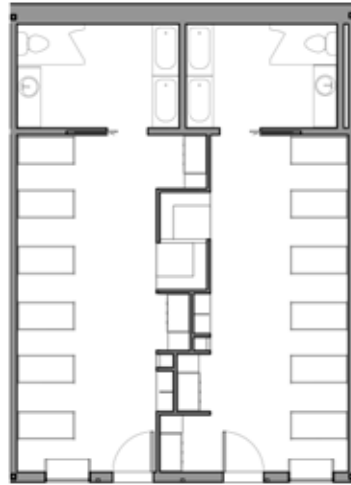


CROSS UNIT SECTION



INFANT UNIT

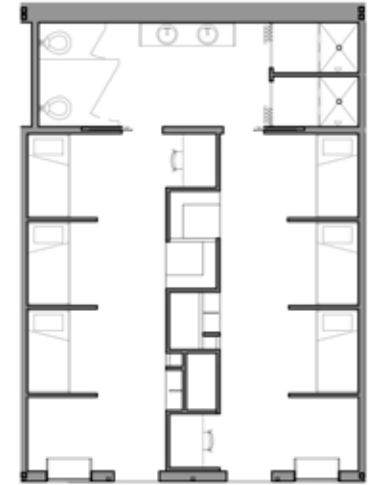
THERE ARE THREE UNIT TYPES: INFANT, FAMILY, AND TYPICAL. EACH UNIT IS 400 SQUARE FEET. THE INFANT UNITS ARE IN THEIR ZONE THAT IS HIGHLY MONITORED BY STAFF MEMBERS. THE FAMILY UNITS FOR SIBLINGS THAT COME IN TOGETHER OR TEEN PARENTS. THIS UNIT HAS A VARIETY OF BED TYPES. THE TYPICAL UNIT CAN HOLD 6 PEOPLE (3 BUNK BEDS). IN EACH UNIT THERE IS A THICK DIVIDING WALL THAT HAS BEEN PUSHED AND PULLED TO CREATE A DESK SPACE, CUBIES FOR BELONGINGS, A TABLE AREA, AND A COUPLE SEATING SPACES FOR EACH UNIT. THE UNITS ARE LAID OUT SO ONE MODULE CONTAINS 12 PEOPLE AND THEY SHARED A BATHROOM. ALL OF THE UNITS CONTAIN A SLIDING DOOR THAT ALLOWS FOR EACH UNIT TO OPEN UP TO THE OUTDOORS. THE INTERIOR COLORS ARE MEANT TO BE PLAYFUL AND PROMOTE LEARNING AND CREATIVITY.



FAMILY UNIT



TYPICAL UNIT

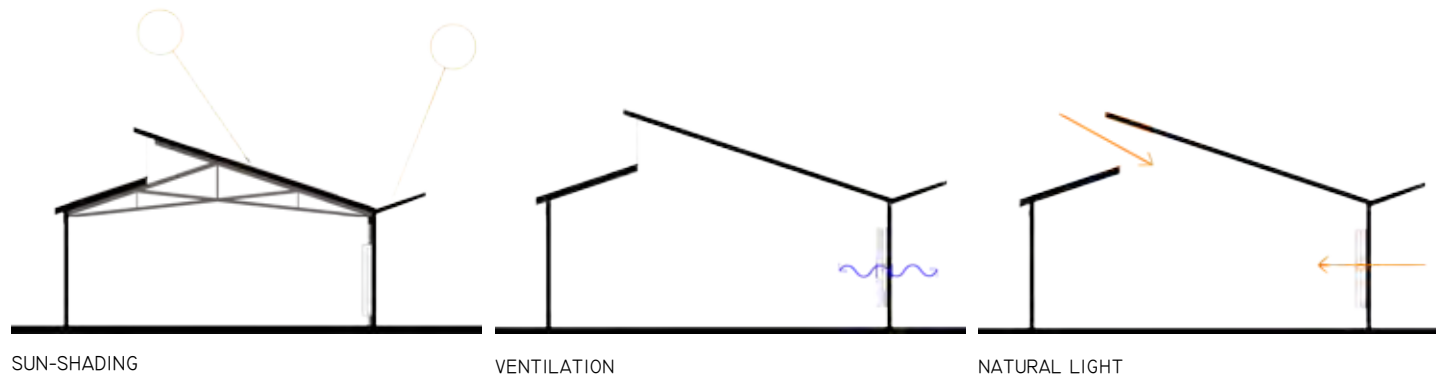


PROGRAM



THE OUTDOOR WALK IS COVERED BY A PERFORATED METAL ROOF TO PROTECT FROM THE HARSH ARIZONA SUN. ALL THE OUTDOOR WALKS CONNECT TO REACH THE CENTRAL SPACE. A CLERESTORY RUNS ALONG THE NORTH SIDE OF THE UNITS TO BRING IN INDIRECT NATURAL LIGHT. THE SOUTH-FACING ROOF ALLOWS FOR SOLAR PANELS TO POWER EACH UNIT AND BRING HOT WATER INTO THE UNITS. EACH UNIT ALSO CONTAINS OPERABLE WINDOWS AND A WINDOW SEAT FOR EXTRA SEATING AND VENTILATION.

THE FACADES OF THE UNITS ARE CLAD IN FIBER CEMENT PANELS. THIS MATERIAL IS DURABLE, LOW-MAINTENANCE, LOW-COST, AND EASY TO INSTALL. THE COLOR PALETTE I CHOSE FOR THE PANELS ARE NATURAL DESERT COLORS. I WANTED THE UNITS TO PROMOTE A FEELING OF CALM AND COMFORT AND THE WARM ORGANIC COLORS DO JUST THAT.





UNIT END ELEVATION



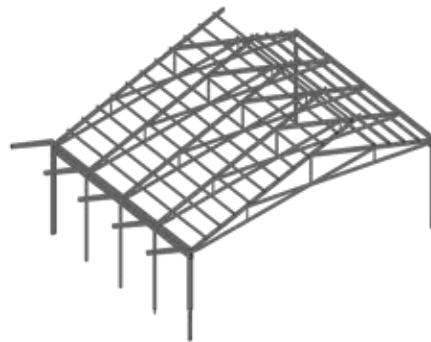
STAFF/UNIT ELEVATION



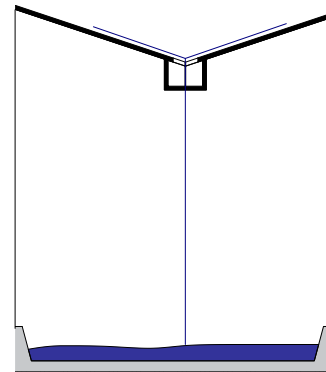
UNIT ELEVATION

THE STRUCTURE I HAVE CHOSEN IS A STEEL FRAME WITH A STEEL AND WOOD TRUSS FOR THE UNITS. WHERE THE EAVES OF THE ROOFS MEET THERE IS A LARGE SCUPPER THAT COLLECTS THE WATER AND SPILLS IT INTO COLLECTING POOLS LOCATED THROUGHOUT THE SITE. THESE POOLS ARE THEN CONNECTED TO UNDERGROUND CISTERNS THAT CAN RECYCLE THE WATER TO REUSE THROUGHOUT THE COMPLEX. THE COLLECTING POOLS WILL ALSO PROVIDED A COOLING WHEN THERE IS A BREEZE ON HOT DAYS.

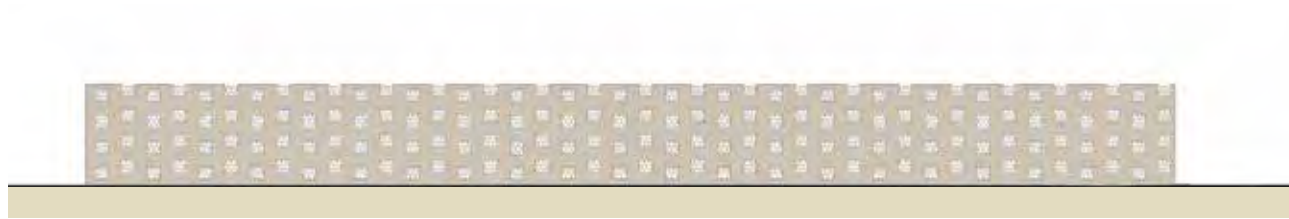
BECAUSE SECURITY IS AN ISSUE, THE WALL THE ENCLOSES THE SITE IS A MAIN ELEMENT IN THE DESIGN. I CHOSE TO ENCLOSE THE COMPLEX WITH A POURED-IN-PLACE CONCRETE WALL WITH OPENINGS. I WANTED THE CHILDREN TO BE ABLE TO LOOK BEYOND THE WALL AND NOT FEEL LIKE THEY ARE IMPRISONED. THE INTERIOR SIDE OF THE WALL IS COVERED WITH THE SAME PERFORATED METAL USED THROUGHOUT THE SITE.



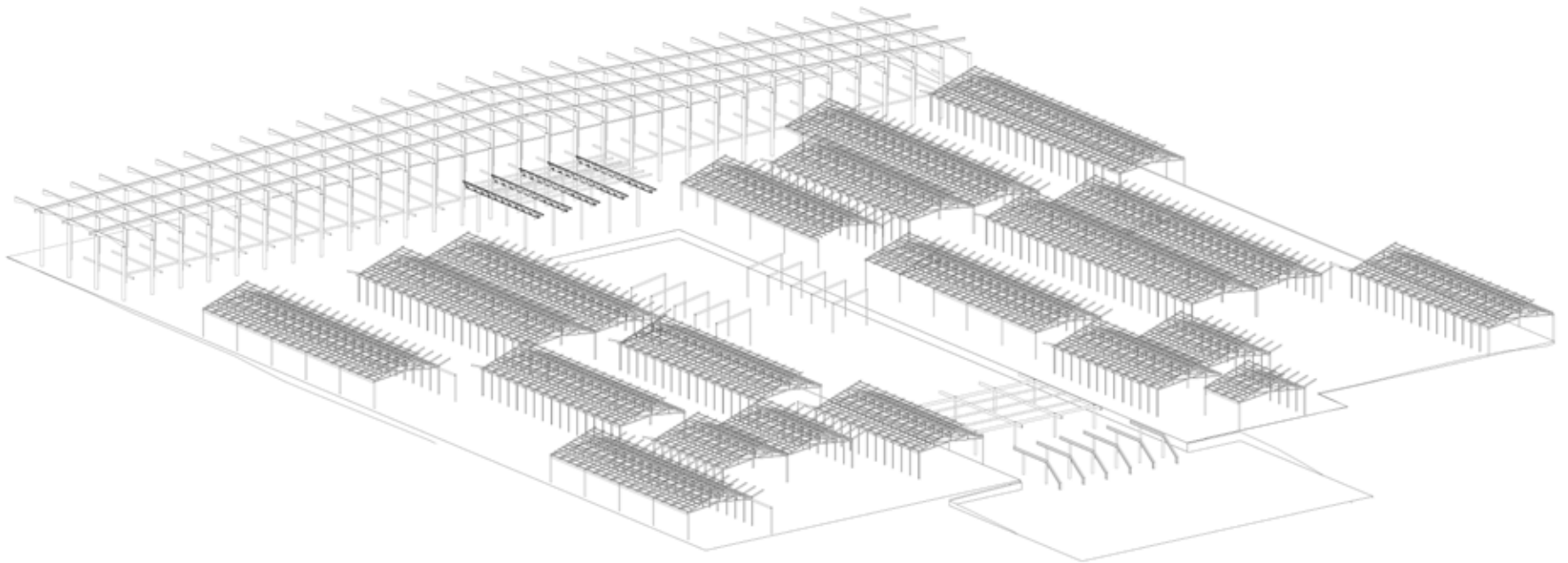
STRUCTURE



DRAINAGE



ENCLOSURE WALL



STRUCTURAL AXON

NINE | APPENDIX

FROM THE BORDER
TEMPORARY STAY CENTERS FOR MIGRANT YOUTH



"SINCE OCTOBER, 17,000 CHILDREN HAVE BEEN CAUGHT CROSSING THE SOUTHERN BORDER WITHOUT PARENTS OR OTHER FAMILY MEMBERS, A MORE THAN 90% INCREASE FROM LAST YEAR." "MORE THAN 800 OF THE YOUNGESTS ARE BEING HELD AT A FORMER WAREHOUSE IN NOGALES, ARIZ., NOW ALSO DEPLOYED AS A DETENTION CENTER FOR MIGRANT YOUTH."

PROBLEM STATEMENT

WITHIN THE PAST COUPLE YEARS, THE NUMBER OF YOUTH IMMIGRANTS HAS INCREASED GREATLY. THE CHILDREN ARE BEING SENT TO THE UNITED STATES ALONE IN HOPES OF BEING ABLE TO COME IN TO THE US. THEIR JOURNEYS ARE LONG AND TOUGH BECAUSE OF THE NUMBER OF CHILDREN AND YOUNG ADULTS TRYING TO CROSS THE BORDER. THE BORDER CONTROL CENTERS HAVE NO SPACE FOR THEM. THE OVERFLOW OF KIDS HAVE BEEN SENT TO WAREHOUSES WHERE THEY MUST SLEEP ON BLANKETS ON CONCRETE FLOORS. SIMILAR CONDITIONS ARE OCCURRING IN THE CENTERS THEMSELVES. THESE CENTERS WERE NOT MADE TO HOUSE CHILDREN FOR AS LONG AS THEY ARE. AT MOST THE YOUTH COMING TO THE US SHOULD STAY IN THESE CONTROL CENTERS FOR THREE DAYS, BUT MOST ARE STAYING WEEKS BEYOND THAT. FROM THE CONTROL CENTER, THE CHILDREN SHOULD BE SENT TO HEALTH AND HUMANE SERVICES THAT ACTS AS A CAMP FOR THE YOUNG UNTIL THEY CAN BE PLACED. ONE CENTER THAT IS MEANT TO HOLD 250 IS HOLDING DOUBLE THAT. THE CONDITIONS AT THE CENTERS ARE SPARE BECAUSE THEY WERE SET UP FOR ONLY BRIEF STAYS. AND THEY WERE NOT MEANT TO HOUSE MINORS. SOME OF THE BORDER CONTROL CENTERS HAVE BEEN DESCRIBED AS INHUMANE AND ABUSIVE.

PROJECT STATEMENT

EVEN THOUGH THE MIGRANT YOUTH HAVE A PLACE TO BE SENT AFTER THEIR "SHORT" STAY AT THE CONTROL CENTERS, THAT TRANSFER MIGHT NOT HAPPEN FOR WEEKS. BECAUSE OF THIS I PROPOSE TO PROVIDE CENTERS ON THE BORDERS TO THE U.S. TO HOUSE THE CHILDREN COMING INTO THE COUNTRY WITHOUT THEIR PARENTS. THESE CENTERS WILL CONTAIN TEMPORARY SHELTER FOR THESE CHILDREN FOR THE TIME THEY ARE BEING HELD. THE SHELTER WILL ACT AS A HOSTEL. IT WILL PROVIDE FOOD AND BED FOR THOSE IN NEED AND WILL HAVE ACTIVITIES FOR THE CHILDREN.

SITE

THE SITE CHOSEN IS IN NOGALES, ARIZONA. NOGALES HAS THE SECOND LARGEST BORDER CONTROL CENTER IN THE UNITED STATES. IT LIES JUST NORTH OF THE US-MEXICO BORDER ALONG THE PAMAJITO MOUNTAIN RANGE. THE SITE SITS AT THE TOP OF THE UNITED STATES BORDER CENTER COMPLEX. BEING IN SUCH A ROCKY AREA, THE SITE ITSELF IS RELATIVELY FLAT, WITH ONLY A TEN FOOT DIFFERENCE IN ELEVATION OVER THE 540,000 SQUARE FOOT AREA. THE CLIMATE IN NOGALES IS MAINLY DRY WITH THE MOST HUMID AND COMFORTABLE MONTHS IN JULY AND AUGUST. AUGUST IS ALSO THE RAINY SEASON IN NOGALES WITH MOSTLY THUNDERSTORMS. THE AVERAGE TEMPERATURE IN THIS AREA IS AROUND 80 DEGREES WITH THE HOTTER MONTHS REACHING 90+ AND THE COLDER MONTHS BETWEEN 40-70 DEGREES.



SITE SECTIONS



LONGITUDINAL SECTION

CHINA SECTION

INITIAL PROGRAM

SLEEPING AREAS	12,000+ SQFT
ACTIVITIES	
PLAYGROUND	4,000 SQFT
LOUNGE	500 SQFT
CRAFT CENTER	2,000 SQFT
BATHING FACILITIES	8,000+ SQFT
FACULTY OFFICES	1,000 SQFT
DINING AREA	3,000 SQFT
OUTDOOR SPACE	8,000-10,000 SQFT
MULTI-USE SPACES	3,000 SQFT
MISC (CUSTOMS, ETC.)	5,000 SQFT
TOTAL (NET)	50,000 + 83,333 GROSS (WITH OPENINGS)

PRECEDENTS

BAYREUTH YOUTH HOSTEL
ARCHITECT: LAVA
LOCATION: BAYREUTH, GERMANY
AREA: 34,000 SQM

BEIERSDORF CHILDRENS DAY CARE CENTRE
ARCHITECT: KLAMMTTELKOMMENTOR
LOCATION: HAMBURG, GERMANY
AREA: 1750 SQM

EURAILLE YOUTH CENTRE
ARCHITECT: JDD ARCHITECTS
LOCATION: LILLE, FRANCE
AREA: 6000 SQM

CHILDCARE CENTRE IN LOPPE
ARCHITECT: COLBOC FRANZEN & ASSOCIES
LOCATION: LILLE, FRANCE
AREA: 1277 SQM

LAVA'S DESIGN IS A YARDSTICK FOR THE SPORTS HOSTEL OF THE FUTURE THROUGH INNOVATIVE SPATIAL CONFIGURATIONS, SUSTAINABILITY AT ENVIRONMENTAL, STRUCTURAL, AND SOCIAL LEVELS, AND INTEGRATED SPORTING FACILITIES. THE HOSTEL OFFERS AN ABUNDANCE OF FLEXIBLE PUBLIC SPACES FEATURING BRIGHT COLOURS AND SOUNDING WINDOWS OVERLOOKING THE BAVARIAN LANDSCAPE.

I CHOSE THIS PRECEDENT BECAUSE THE VARIETY OF PROGRAM IN THE BUILDING. THE SPACES CONSIST OF MULTI-PURPOSE EVENT ROOMS, OUTDOOR ACTIVITY SPACES, LOUNGES, TERRACES, AND COMMON AREAS.

THE TWO-STORY BUILDING IS LOCATED NEXT TO A GREEN AREA ON THE INNER-CITY GROUNDS OF HAMBURG. THE EXTREMELY COMPACT RECTANGULAR STRUCTURE IS ARRANGED AROUND A CENTRAL, TWO-STORY MULTI-PURPOSE ROOM, WHICH FUNCTIONS AS A PLAY AREA AND A RECREATION SPACE, FEATURING A DRESS-UP STRUCTURE. THE FACILITY CATERES FOR A VARIETY OF FUNCTIONS AND REQUIREMENTS AND, AT THE SAME TIME, CREATES A LIGHT AND TRANSPARENT ATMOSPHERE INSIDE. THE LARGE WINDOW FORMATS PROVIDE PERFECT CONDITIONS FOR PLAY AND EDUCATIONAL WORK.

THE PLAYFUL FACADE AND FLEXIBILITY OF SPACES ARE QUALITIES I WANT TO PROPOSE FOR MY PROJECT. THESE ASPECTS WILL LIVE UP MY PROGRAM AND MAKE THE CENTER MORE COMFORTING TO THE CHILDREN.

THE EURAILLE YOUTH CENTRE IS A PROJECT THAT INCLUDES A YOUTH HOSTEL, OFFICES AND A RECREATION. BY PLACING A PROGRAM IN EACH POINT OF THE TRIANGULAR SITE THE BUILDING OFFERS MAXIMUM PRIVACY WHILE ALLOWING THEN A CLOSENESS AND CONTINUITY OF SPACE, ORGANIZED AROUND A GARDEN. THE LIFTING OF THE MASS OF THE PROGRAM AT THE CORNERS ILLUMINATES AND ACTIVATES THE ADJACENT PUBLIC SPACES AND CREATES A CONTINUITY FROM OUTSIDE TO INSIDE THE BUILDING.

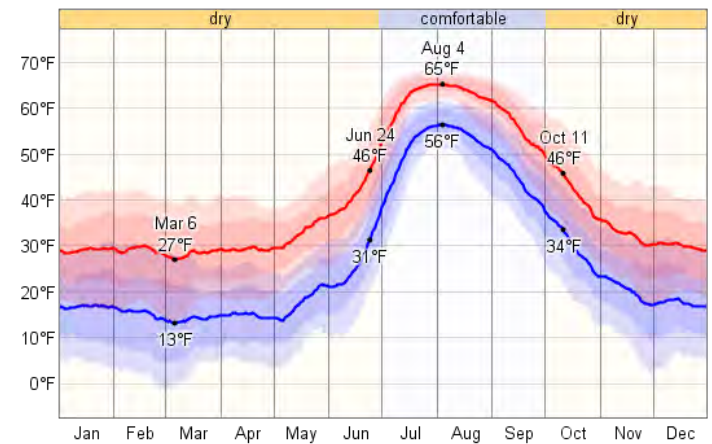
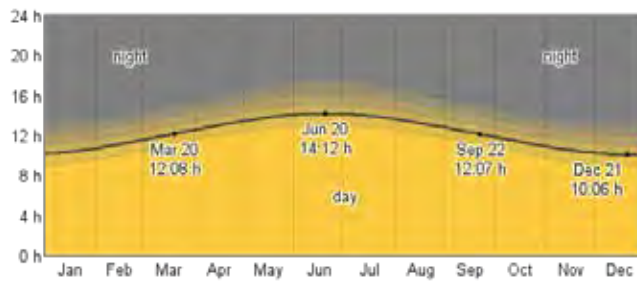
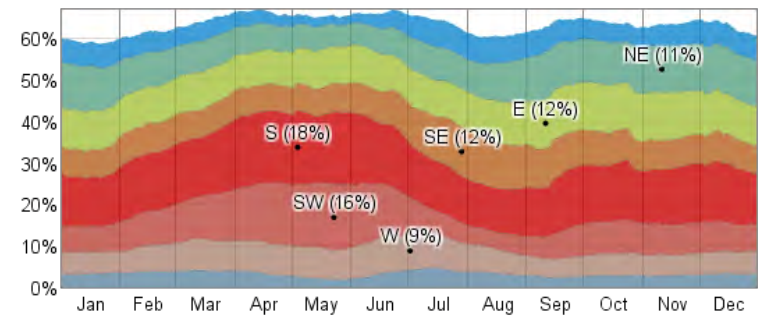
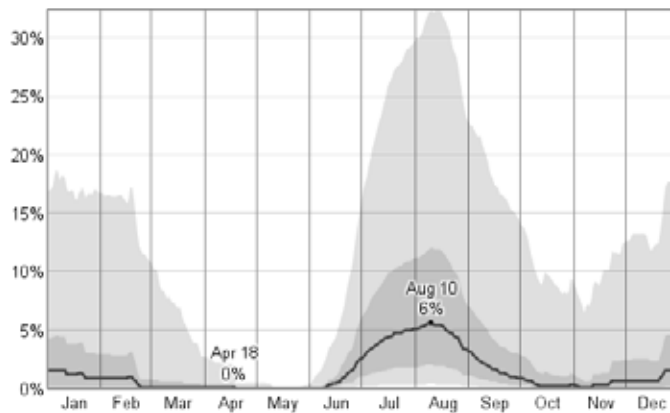
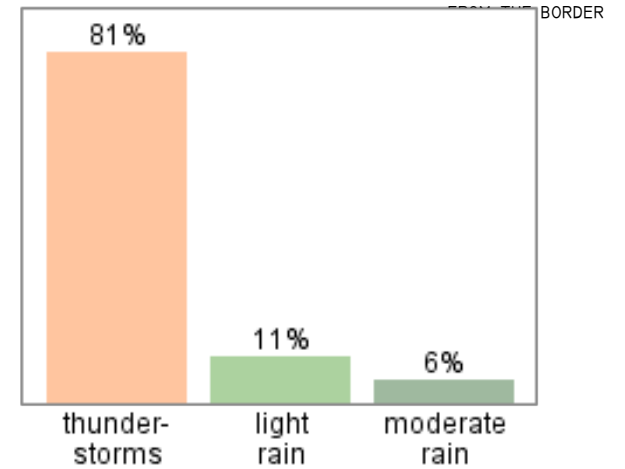
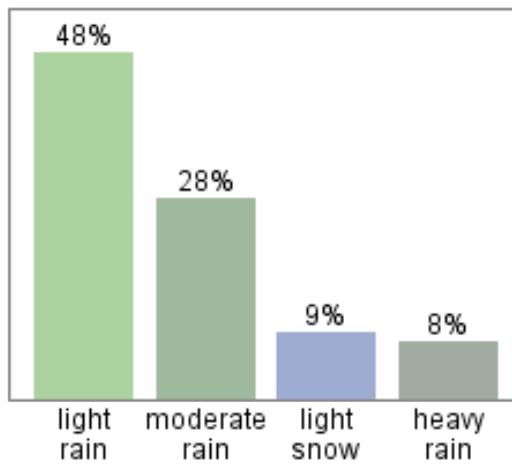
THIS PROJECT BRINGS TOGETHER SUCH A VARIETY OF PROGRAM AND ACCOMMODATES ALL DIFFERENT TYPES OF USERS THAT IT MAKES FOR A GREAT PRECEDENT FOR MY PROJECT.

THE MAIN USERS OF THE BUILDING WILL BE THE IMMIGRANT CHILDREN COMING FROM MEXICO OR CENTRAL AMERICA. THE BUILDING IS LEANED TOWARDS THESE CHILDREN. HOWEVER, THERE WILL BE OTHER USERS OF THE BUILDING AS WELL. THE BUILDING MUST ACCOMMODATE THE STAFF THAT RUNS THE BUILDING, AS WELL AS THE FACULTY THAT WILL BE TAKING CARE OF THE CHILDREN THERE. THERE COULD BE INSTANCES TOO WHERE PARENTS ARE TRAVELING WITH THEIR YOUNG CHILDREN, AND MAYBE THIS IS A PLACE WHERE THEY MAY STAY TOO.

THE CHILDCARE CENTRE IS ACTUALLY A VILLAGE FOR SMALL CHILDREN. EACH HOUSE IS DESIGNED FOR A DIFFERENT PURPOSE AND A DIFFERENT AGE GROUP. IT IS ALSO ADAPTED TO SPECIFIC RHYTHMS, LIGHTING AND SPACES. GLASS WALLS PROVIDE A VISUAL CONTINUITY BETWEEN THE GARDEN, THE OUTDOOR PLAYGROUNDS, THE PATIO, THE LIVING AREAS AND THE INDOOR STREET TO ALLOW SMALL CHILDREN TO GET THEIR BEARINGS, ENCOURAGE THEM TO SOCIALIZE AND EXPLORE.

BECAUSE MY PROJECT WILL DEAL WITH DIFFERENT AGE GROUPS AND GENDERS, THIS PRECEDENT WILL BE CRUCIAL IN HOW I DEAL WITH THE MIXING OF THOSE TYPES OF PROGRAM SPACES.





PHOTOS OF SITE FROM
VISIT TO THE NOGALES
BORDER CONTROL CENTER







OTHER PRECEDENTS | HAD
STUDIED

FROM THE BORDER



<http://www.archdaily.com/627266/seelenkiste-spirit-shelter-finding-arcadie-allergutendinge/5547f3e-be58ece5029000600-seelenkiste-spirit-shelter-finding-arcadie-allergutendinge-image>



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