

A decorative background consisting of a grid of light-colored wooden slats, with vertical slats on the left and right sides and horizontal slats across the top and middle.

조화
JOHWA

Community Healing & Education for Diabetes

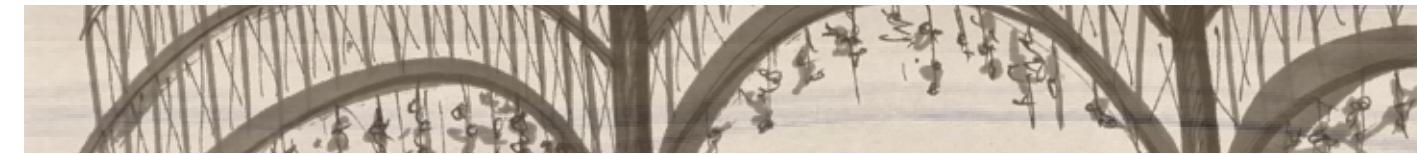
JOHWA'S JOURNEY



RESEARCH & DISCOVERY 9



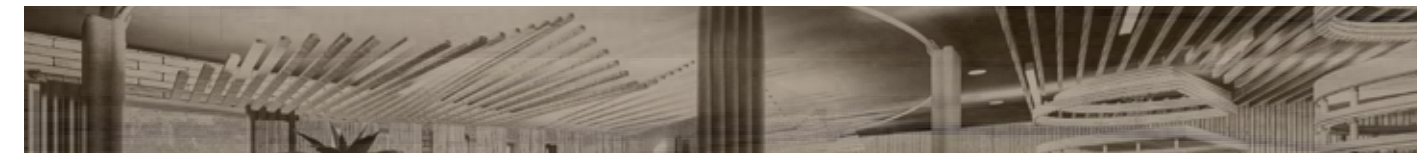
BUILDING & SITE ANALYSIS 37



CONCEPTION 50



DESIGN DEVELOPMENT 65



FINAL DESIGN 82

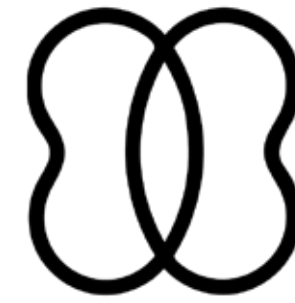
조화

/joh-hwa/ (noun) Korean for "harmony"

A sense of harmony is the goal for diabetes, dialysis, and chronic kidney disease patients because they deserve to feel connected and compatible with society, despite their declining health.

*In dedication to Kevin Yang-Soo Yang
3.16.1966 - 9.8.2019*

PROJECT DESCRIPTION



JOHWA is a mixed-use community healing and education center for those living with diabetes, chronic kidney disease, and receives dialysis treatment. Proposed to be located in Chicago, Illinois, JOHWA is designed to bring awareness of chronic kidney disease (CKD), promote disease prevention and healthy management, and foster a safe haven for kidney patients.

PROJECT OVERVIEW

BUILDING TYPE



Healthcare
&
Wellness Facility

DESIGN PROBLEM



Human Ecology
&
Social Justice

USERS



Everyone
indirectly/directly
affected by CKD



Prospect & Refuge

Prospect & Refuge Theory is informed by basic human psychological needs to provide environments that allow people to observe (prospect) without being seen (refuge).

This is important when considering diabetic patients who are familiar with experiences of high self-consciousness, social displacement, and emotional distress.



Nursing Environmental Theory

A theory designed by Florence Nightingale (1859) where it involves the nurse's initiative to configure environmental settings appropriate for the gradual restoration of the patient's health, and that external factors associated with the patient's surroundings affect life or biologic and physiologic processes, and their development.

This is important when considering dialysis patients due to the fact that they need exceptional patient care and specific environmental needs. The environmental factors that affect health, as identified in the theory, are: fresh air, pure water, sufficient food supplies, efficient drainage, cleanliness of the patient and environment, and light (particularly direct sunlight). If any of these areas is lacking, the patient may experience diminished health.



Supportive Design Theory (SDT)

A theory designed by Roger Ulrich (1991) which explores the ways a designer can utilize the built environment to reduce stress; by providing users a sense of control, access to social support and access to positive distractions in physical surroundings.

This is important when considering people living with chronic kidney disease (CKD) because they seek healthcare environments that will foster a therapeutic atmosphere that carry stress reducing influences, helping to ease their road to recovery.



To promote the understanding of acute and chronic kidney disease and the human aspects of a therapeutic healing environment by offering workshops, community support groups, and exceptional customer service in outpatient care.



To encourage and educate kidney patients in their own recovery and to provide a safe, physical setting that nurtures that goal by providing recreational grounds, workshops, and mentorship programs on disease management and prevention.



Address the diabetes epidemic and decrease the social stigma associated with it through seminars, interactive art exhibitions, community service opportunities, and nutritional programs.



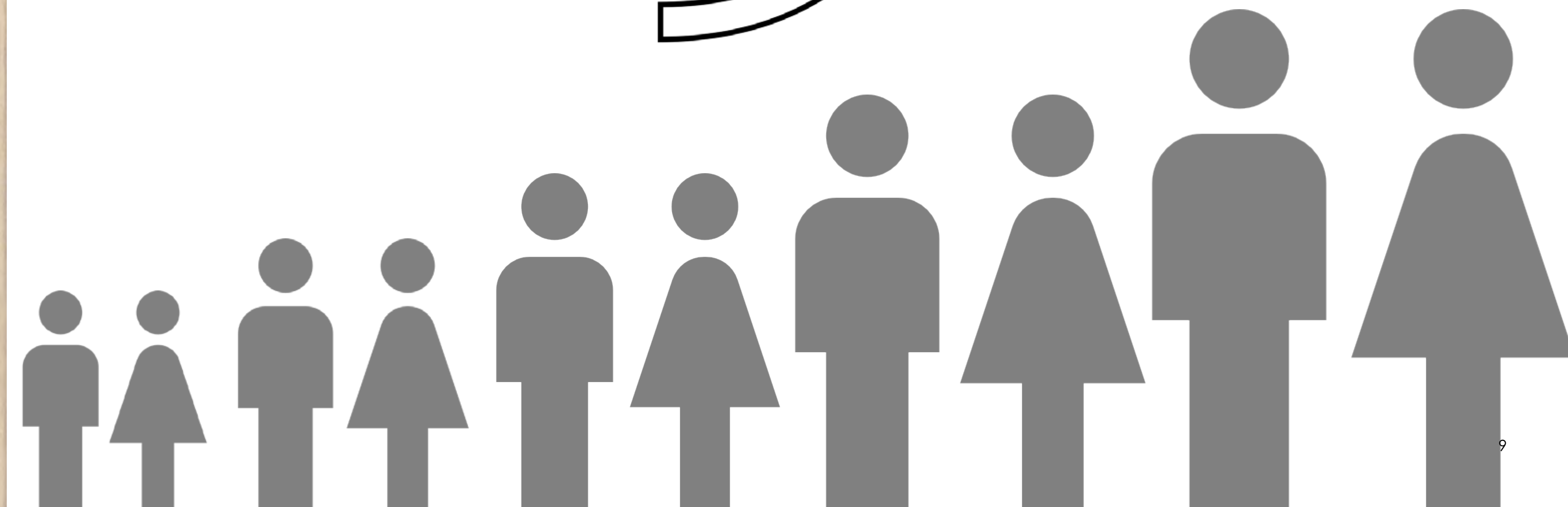
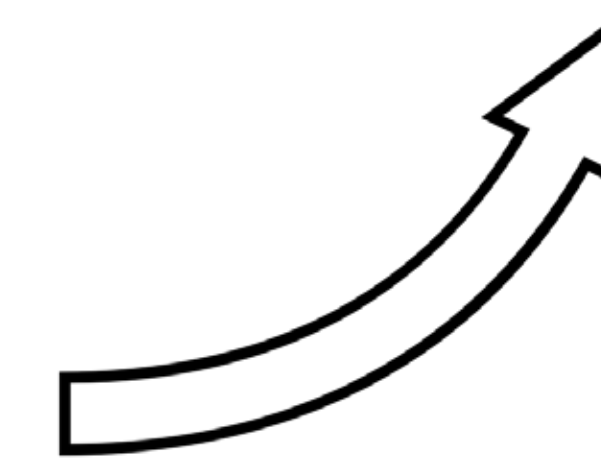
People living with diabetes and chronic kidney disease need a safe haven to properly recover, self-manage, and feel supported by the community.



RESEARCH
&
DISCOVERY

DIABETES IS ON THE

 **RISE** 



It is one of the *fastest growing diseases*, and without action, approximately **700 million people** around the world will have diabetes by the year **2045**

Number of adults (20-79) with diabetes worldwide



WORLD

2045	700 MILLION	↑ 51% INCREASE
2030	578 MILLION	
2020	463 MILLION	

EUROPE

2045	68 MILLION	↑ 15% INCREASE
2030	66 MILLION	
2020	59 MILLION	

- 1 in 6 live births are affected by hyperglycaemia in pregnancy
- this region has the highest number of children and adolescents (0-19) with Type 1 diabetes - 297,000 in total

WESTERN PACIFIC

2045	212 MILLION	↑ 33% INCREASE
2030	197 MILLION	
2020	163 MILLION	

- 1 in 3 adults with diabetes lives in this region
- 1 in 3 deaths due to diabetes occur in this region

NORTH AMERICA & CARIBBEAN

2045	63 MILLION	↑ 33% INCREASE
2030	56 MILLION	
2020	48 MILLION	

- 1 in 6 adults in region is at risk for Type 2 diabetes
- 43% of global diabetes-related health expenditure occurs in this region

SOUTH & CENTRAL AMERICA

2045	49 MILLION	↑ 55% INCREASE
2030	40 MILLION	
2020	32 MILLION	

- 2 in 5 people with diabetes were undiagnosed
- Only 9% of global diabetes-related health expenditure occurs in this region

AFRICA

2045	47 MILLION	↑ 143% INCREASE
2030	29 MILLION	
2020	19 MILLION	

- 3 in 5 people with diabetes are undiagnosed
- 3 in 4 deaths due to diabetes were in people under the age of 60

MIDDLE EAST & NORTH AFRICA

2045	108 MILLION	↑ 96% INCREASE
2030	76 MILLION	
2020	55 MILLION	

- 1 in 8 people have diabetes
- 1 in 2 deaths due to diabetes were in people under the age of 60

SOUTHEAST ASIA

2045	153 MILLION	↑ 74% INCREASE
2030	115 MILLION	
2020	88 MILLION	

- 1 in 5 adults with diabetes lives in this region
- 1 in 4 live births are affected by hyperglycaemia in pregnancy

PROBLEM IDENTIFICATION

Diabetes is the **7th** leading cause of death in the United States.



1 in 11 Americans has diabetes



More than 34 million people in the U.S. have diabetes and 1 in 5 of them *don't know they have it...*



More than 88 million U.S. adults—over a third—have prediabetes, and more than 84% of them *don't know they have it...*



A big issue that's associated with diabetes is **SOCIAL STIGMA**

SOURCES OF STIGMA



- THE MEDIA
- FAMILY & FRIENDS
- HEALTHCARE PROFESSIONALS

COMMON PRACTICES



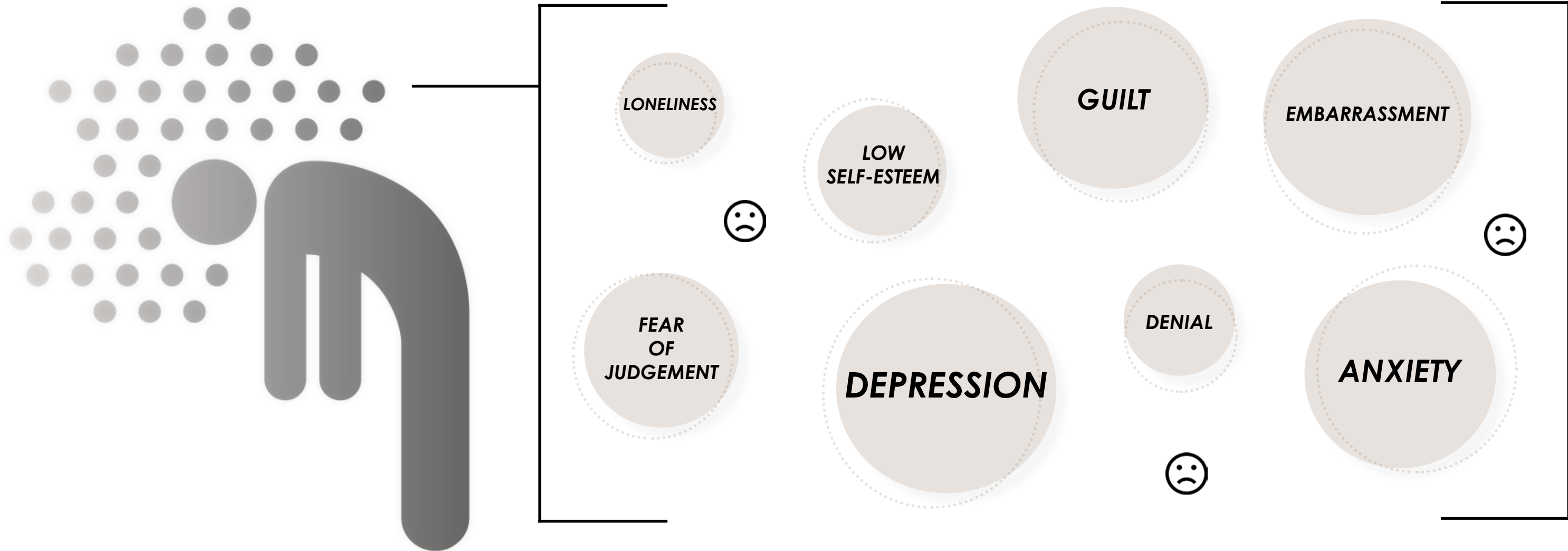
- LACK OF EMPATHY
- GUILT TRIPPING
- INSENSITIVE COMMENTS
- LOOKS OF CONTEMPT

STEREOTYPES



- UNHEALTHY
- OVERWEIGHT/UNDERWEIGHT
- LAZY
- LACKING CONTROL
- ILLICIT DRUG USER

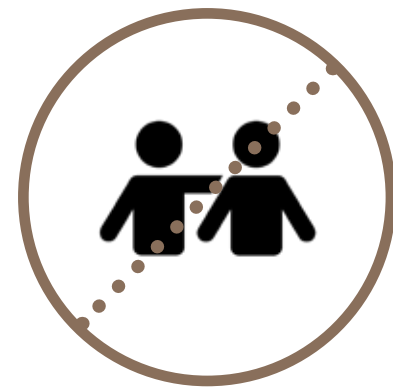
Patients who feel stigmatized reported experiencing feelings of...



HOW IS QUALITY OF LIFE AFFECTED?



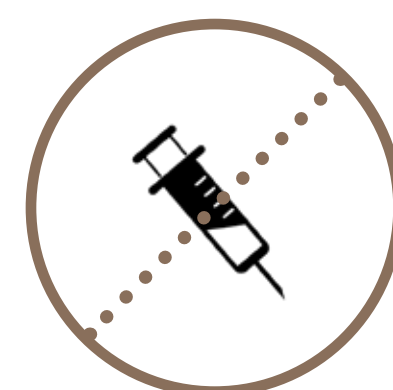
TRAVELING



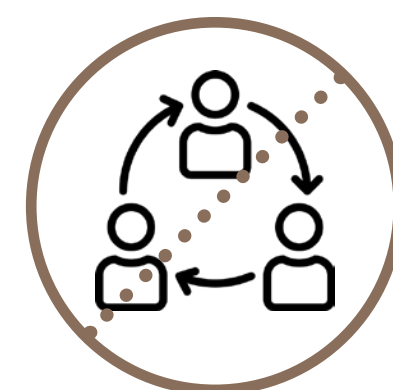
MAINTAINING FRIENDSHIPS



WORKPLACE DISCRIMINATION

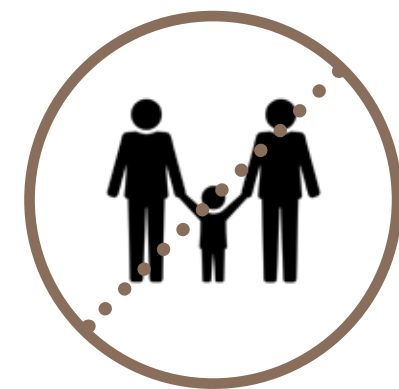


INJECTING INSULIN IN PUBLIC



FINDING A SUPPORTIVE COMMUNITY

Patients feel limitations in...



ADOPTING CHILDREN RESULTING FROM DIABETES STIGMA



SUCCESSFUL SELF-MANAGEMENT



BEING OPEN ABOUT THEIR CONDITION



ENGAGING IN SOCIAL ACTIVITIES



HEALTHY EMOTIONAL/ MENTAL HEALTH

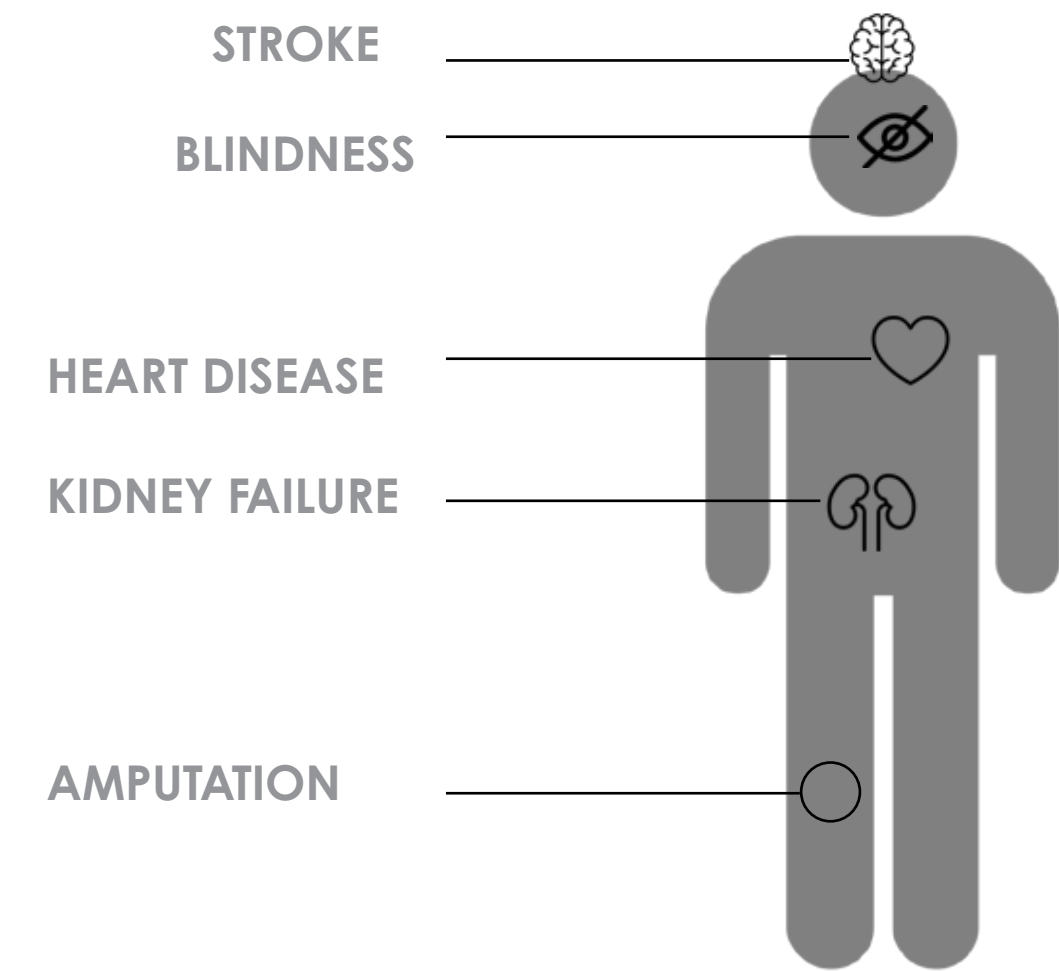
So, what is diabetes?



DIABETES

a chronic (long-lasting) health condition that affects how your body turns food into energy.

What are the physical complications?



If you have diabetes, your body either doesn't make enough insulin or can't use the insulin it makes as well as it should. Over time, that can cause serious health problems, such as heart disease, vision loss, but especially, **chronic kidney failure.**

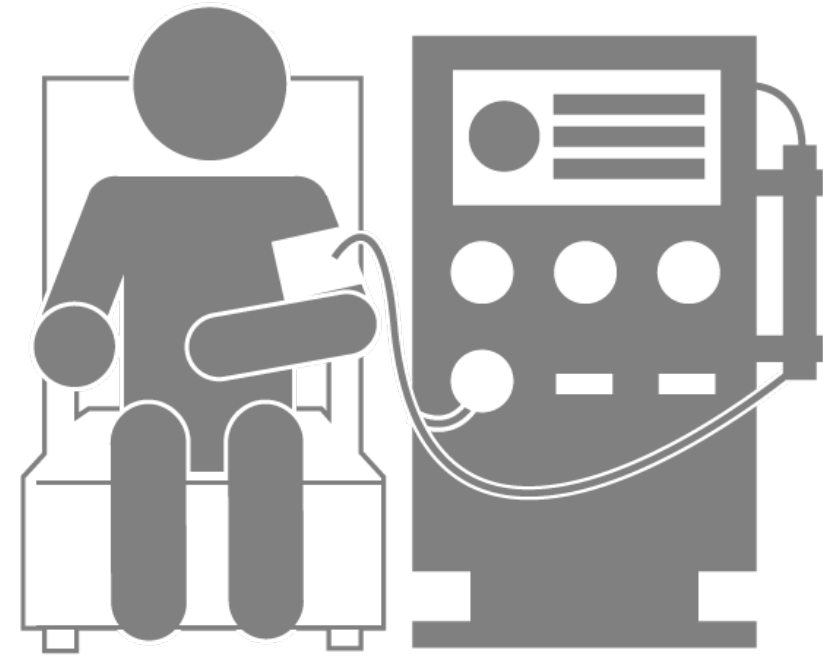
How do you care for chronic kidney failure (CKD)?



DIALYSIS

primary treatment for failing kidneys
(result from long term complication of diabetes)

Why do we need dialysis centers?



Given the increase of chronic kidney disease, **now, more people are getting dialysis treatment earlier.**

"BLANK"

"STERILE"

"COLD"

"WHITE"

"LOTS OF MACHINES"

"OUTDATED"

The issue is...dialysis centers in the U.S. aren't doing enough in terms of providing a therapeutic built environment.

After asking the general public about their opinions on current healthcare design in dialysis centers, common answers included

"PAINFUL"

"SCARY"

"DEPRESSING"

"BORING"

"LIKE A HOSPITAL"

TODAY'S DIALYSIS CENTER

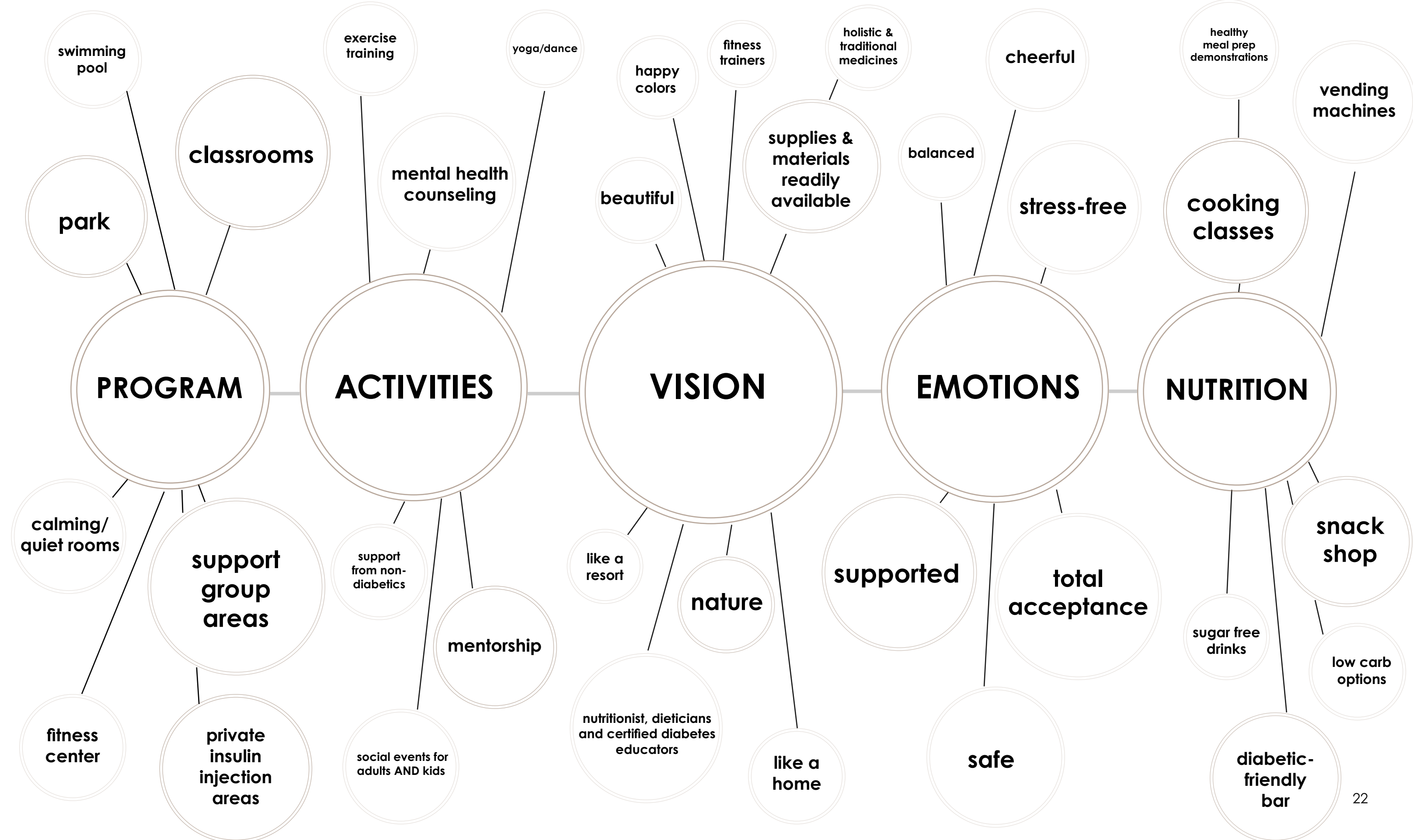
PHOTOS COURTESY OF PRIMARY USER, ROBERT ORCA



HOW CAN WE **TRANSFORM** DIALYSIS CENTER DESIGN?



DIABETES PATIENT SURVEY



PRIMARY USER PROFILES



Robert Orca Dialysis Patient

Age: 53
Gender: Male
Ethnicity: Filipino
Job: Patient Care Technician (PCT) at Davita Dialysis Center
Health: Diabetes & high blood pressure
Family: wife & 4 kids
Education: University of California-Berkeley
Hobbies: trying new restaurants with family, watching basketball, & traveling
Goals: don't let his disease bring him down & to travel as much as possible

INTROVERTED	EXTROVERTED
ANALYTICAL	CREATIVE
PASSIVE	ACTIVE
THINKING	FEELING

NOTES:
 - Loves his family more than anything and wishes they can be there with him during/after treatment
 - Has fun working as a dialysis technician when not in dialysis treatment
 - Stresses that dialysis centers need modern updates



Tina Han, MD Kidney Doctor

Age: 47
Gender: Female
Ethnicity: Korean
Job: Nephrologist at Advocate Lutheran General Hospital
Health: healthy
Family: husband & 2 kids
Education: MD at University of Pittsburgh School of Medicine
Hobbies: reading, meditation, bible studying, watching cooking shows
Goals: provide quality kidney care that is open, inclusive and compassionate, delivered with dignity and empathy for all

INTROVERTED	EXTROVERTED
ANALYTICAL	CREATIVE
PASSIVE	ACTIVE
THINKING	FEELING

NOTES:
 - Known for excellent patient care across Chicagoland
 - Specializes in Nephrology, Hypertension, and Renal Medicine
 - Wants to mentor medical staff and patients along the way
 - Thoroughly explains diseases and lab results for patients to understand easily



Warren Vrba Dialysis Patient

Age: 50
Gender: Male
Ethnicity: German
Job: Bank Teller at Northern Trust
Health: Diabetes & CKD
Family: wife & 3 kids
Education: Houston Community College
Hobbies: watching baseball, playing guitar, attending car shows, & going on nature walks with family
Goals: monitor diabetes condition so well that it doesn't faze him

INTROVERTED	EXTROVERTED
ANALYTICAL	CREATIVE
PASSIVE	ACTIVE
THINKING	FEELING

NOTES:
 - Wants friends & coworkers to understand his full health story or be more empathetic
 - Doesn't want kids to worry about him
 - Looking for new recipes and nutritional tips



SECONDARY USER PROFILES



Byamba Bayur
Wicker Park, Chicago Resident

Age: 28
Gender: Female
Ethnicity: Mongolian
Job: server/community service volunteer
Health: healthy, family history of immune diseases
Family: parents & 1 sister
Education: Northeastern Illinois University
Hobbies: makeup, fashion, traveling, photography, and finding new cute coffee shops
Goals: become a social worker



Randy So
Wicker Park, Chicago Resident

Age: 25
Gender: Male
Ethnicity: Korean-American
Job: student
Health: healthy, family history of cancer
Family: parents & 2 siblings
Education: MA Business University of Illinois at Urbana-Champaign
Hobbies: fitness, golf, photography, food, and movies
Goals: travel the world



Paul Rheingruber
Chicago Suburb Resident

Age: 21
Gender: Male
Ethnicity: Polish-American
Job: barista at Starbucks
Health: acute kidney failure and kidney stones
Family: parents & 2 siblings
Education: Harper Community College
Hobbies: playing the guitar and drums, making music in the studio with friends, & choir
Goals: own a coffee shop with live music and study rooms

INTROVERTED	EXTROVERTED
ANALYTICAL	CREATIVE
PASSIVE	ACTIVE
THINKING	FEELING

NOTES:
- Has a true passion for helping those with difficult upbringings or low self esteem
- Loves practicing empathy, teamwork, and promoting positive, amusing environments
- Puts others before herself
- Just moved to Chicago and wants to find a loving community

INTROVERTED	EXTROVERTED
ANALYTICAL	CREATIVE
PASSIVE	ACTIVE
THINKING	FEELING

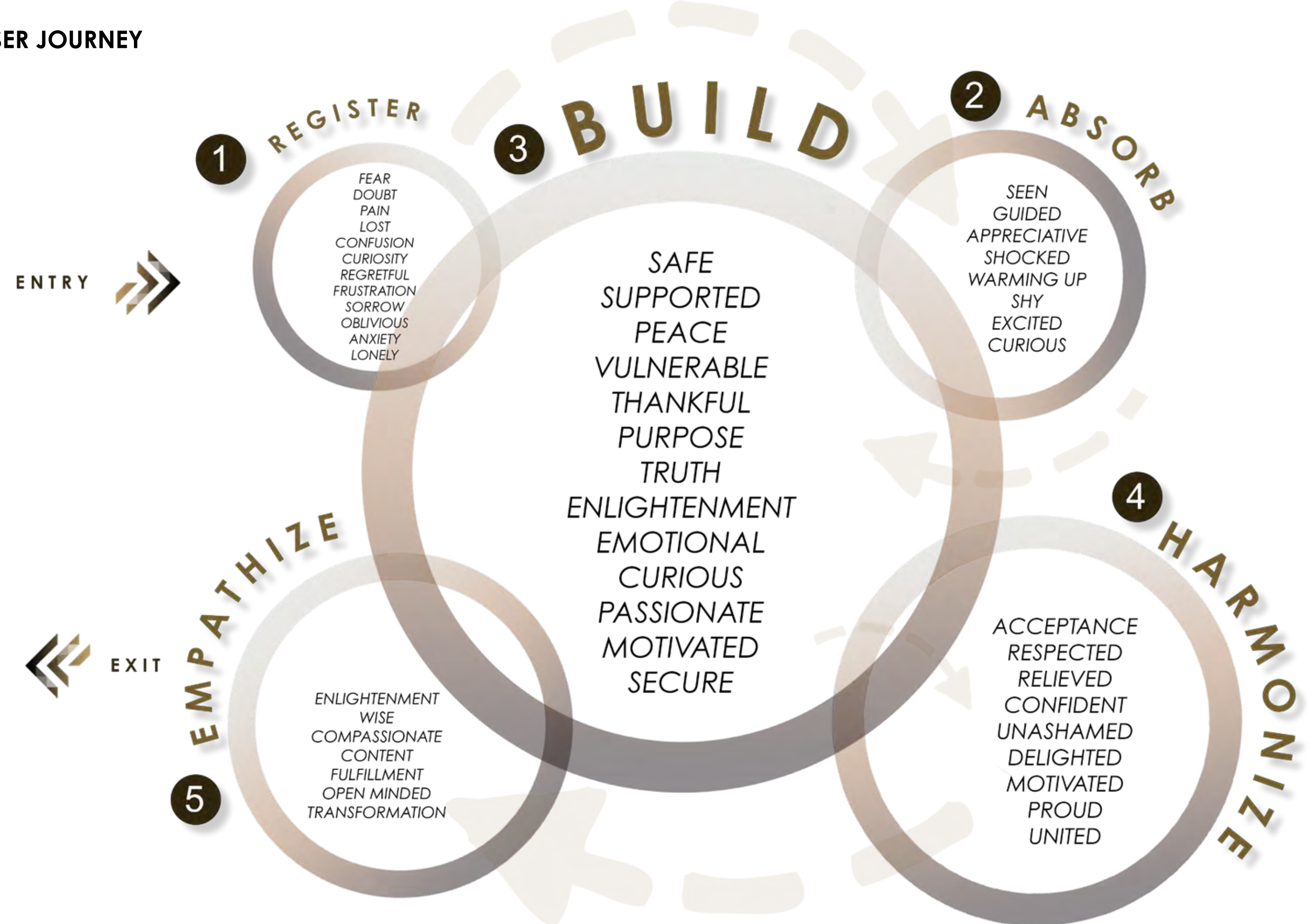
NOTES:
- Would love to learn more about disease support after mom passing away from cancer
- Looking for grief counseling, chronic disease education, and a community that understands the hardships of having an ill family member

INTROVERTED	EXTROVERTED
ANALYTICAL	CREATIVE
PASSIVE	ACTIVE
THINKING	FEELING

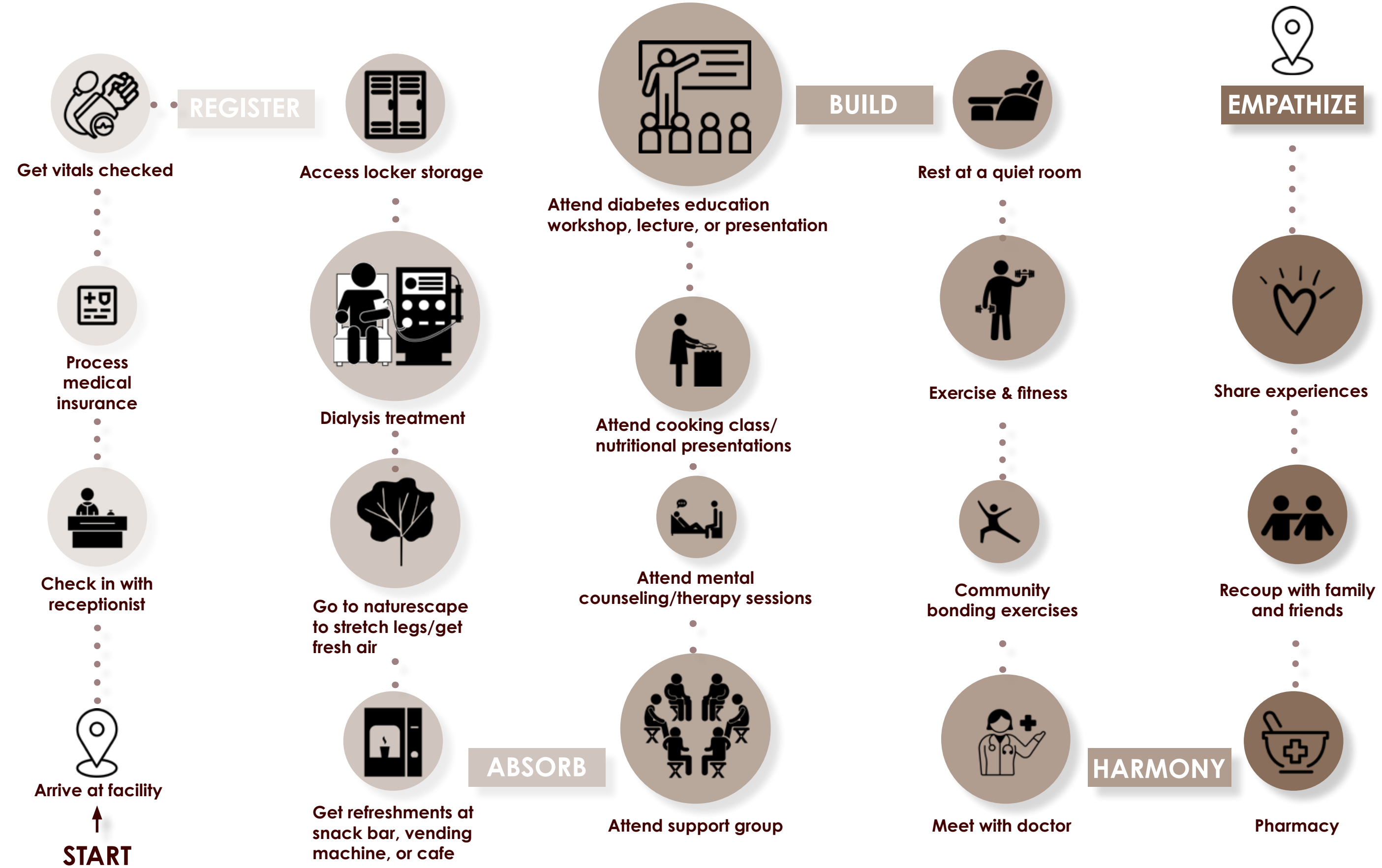
NOTES:
- Fears his future health and would like to learn more about chronic kidney disease
- Wants to find more people going through a similar health situation as him. Wants a support group that feels like family.



USER JOURNEY



PRIMARY USER JOURNEY

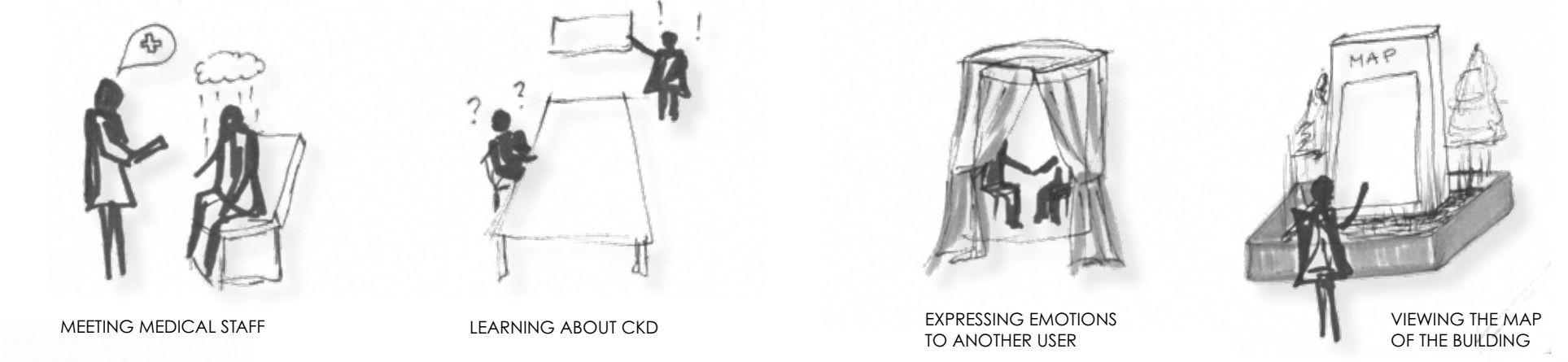


*Journey is interchangeable

KEY EXPERIENCES

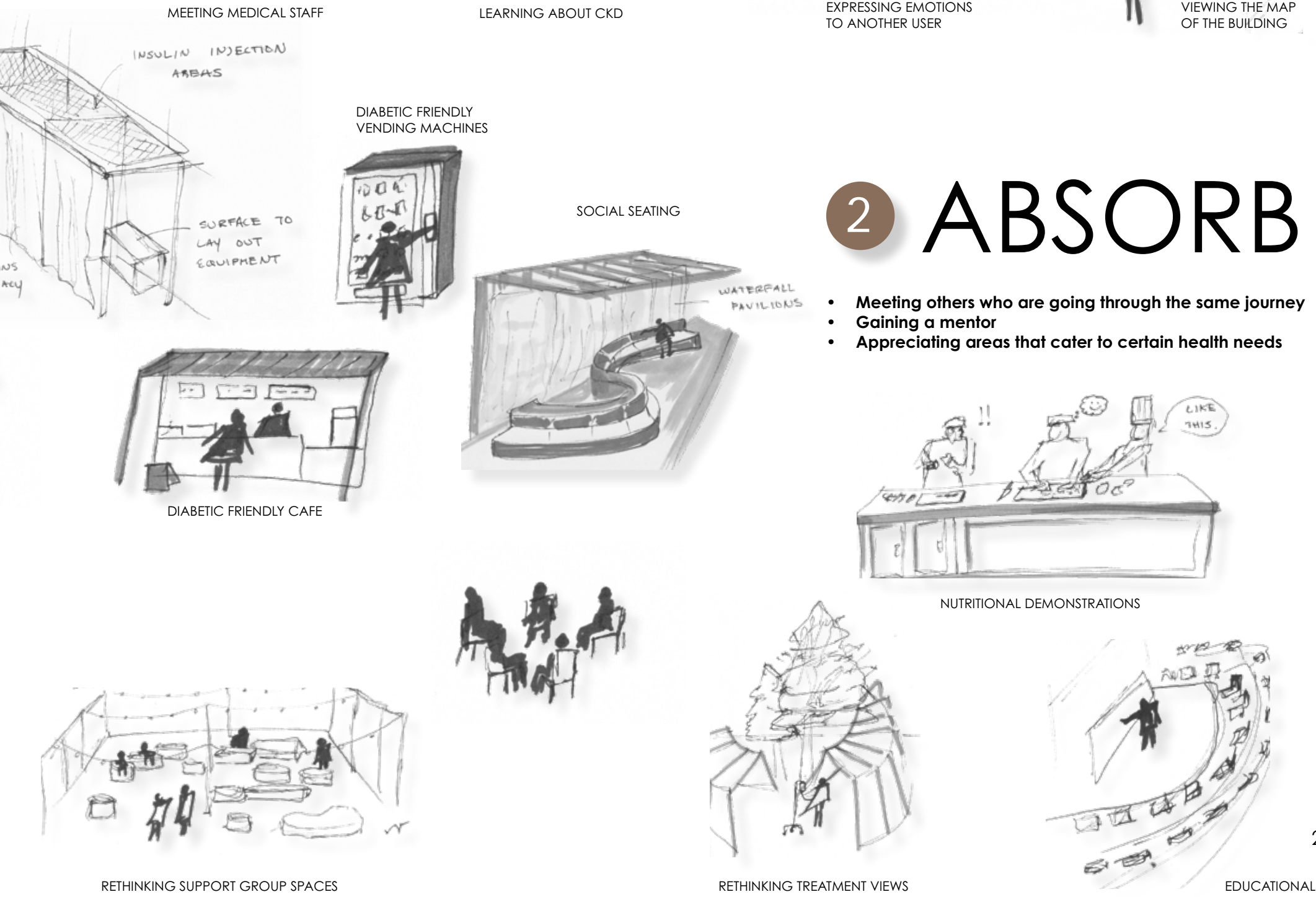
1 REGISTER

- Realizing the seriousness of the disease
- Searching for answers
- Acknowledging negative feelings, looking for positive



3 BUILD

- Growing knowledge and sense of community
- Viewing treatment process differently
- Finding a purpose



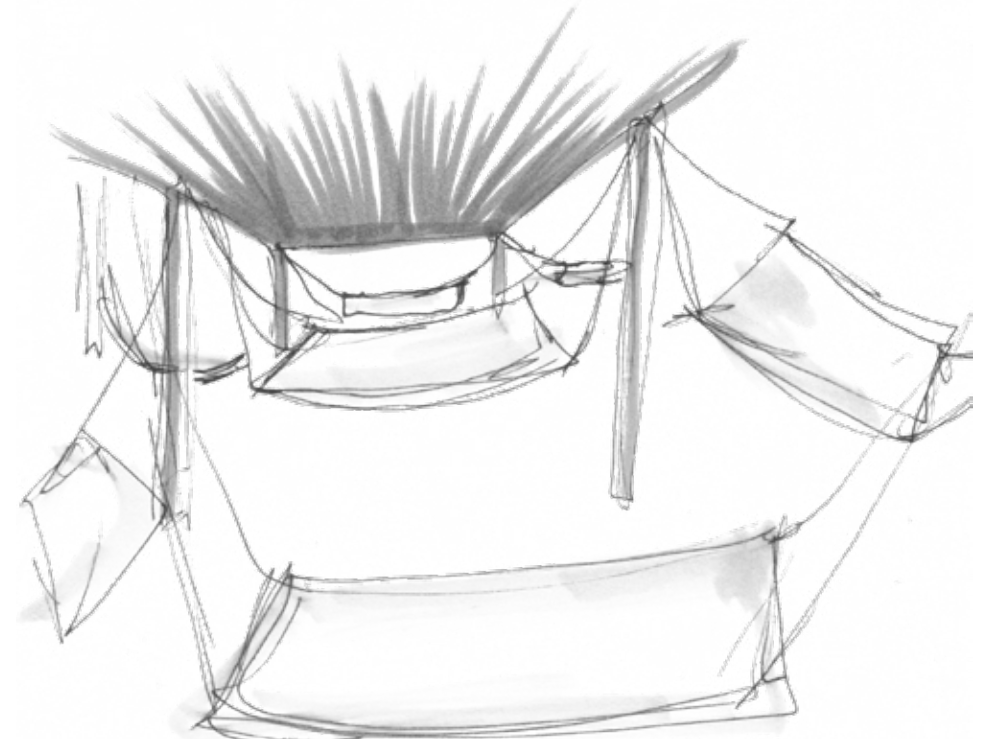
2 ABSORB

- Meeting others who are going through the same journey
- Gaining a mentor
- Appreciating areas that cater to certain health needs

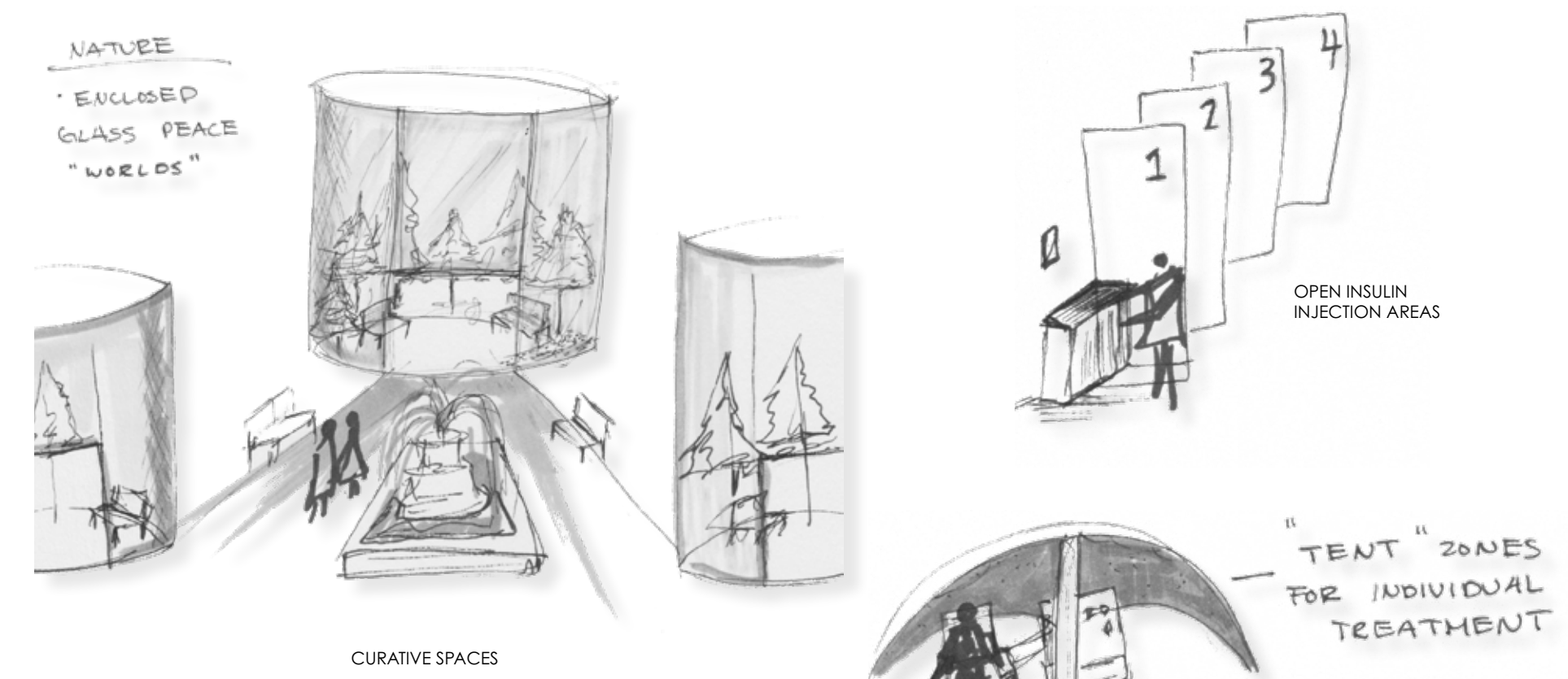


4 HARMONIZE

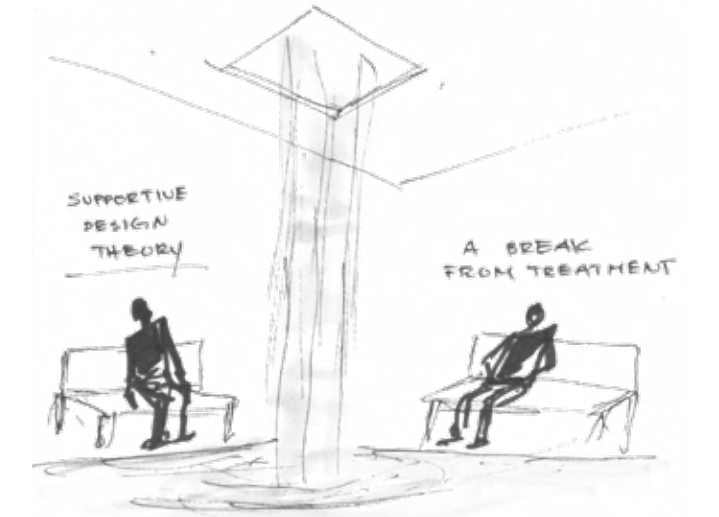
- Feeling total acceptance and balance
- People living with the condition + people not living with the condition respect each other
- Feeling confident in disease management + openness



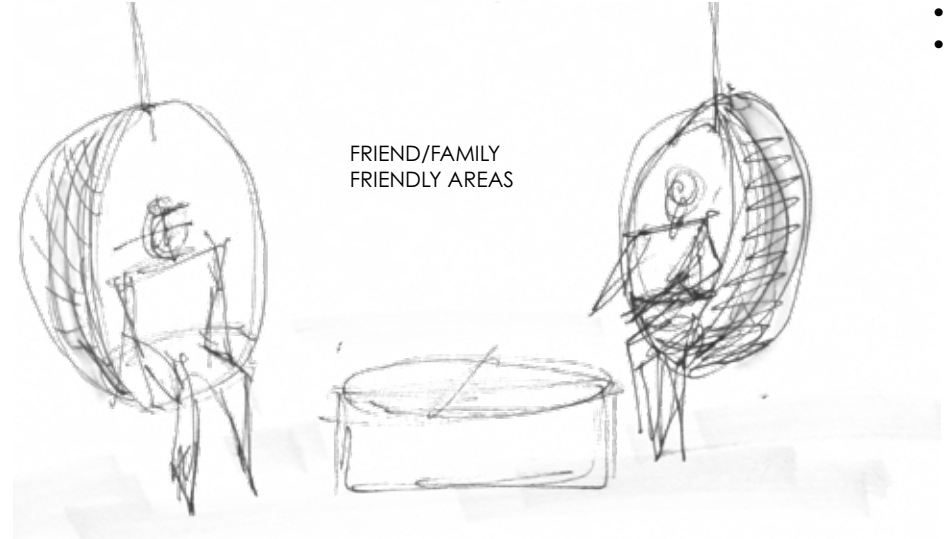
LOUNGES MADE TO ENCOURAGE SOCIAL PLAY & OPEN-MINDEDNESS



CURATIVE SPACES



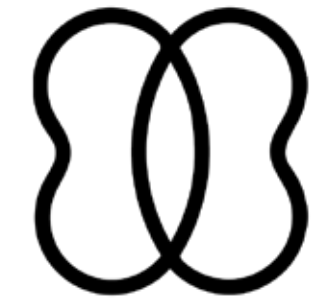
FRIEND/FAMILY FRIENDLY AREAS



5 EMPATHIZE

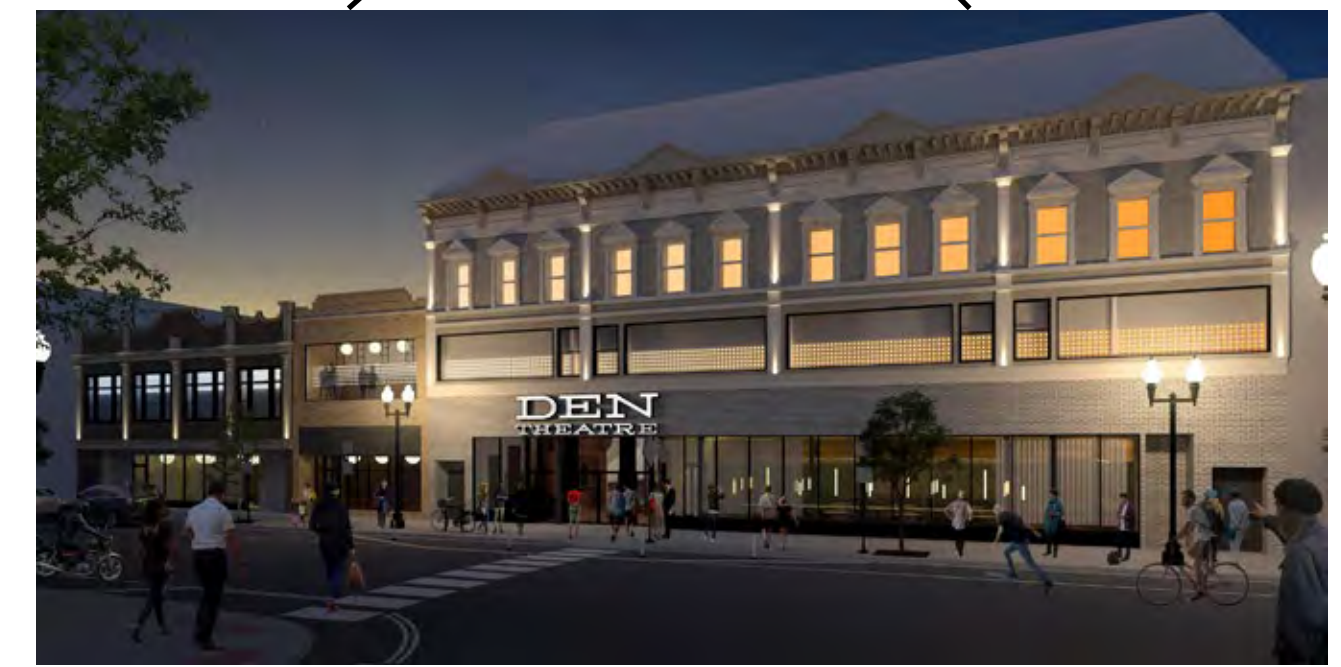
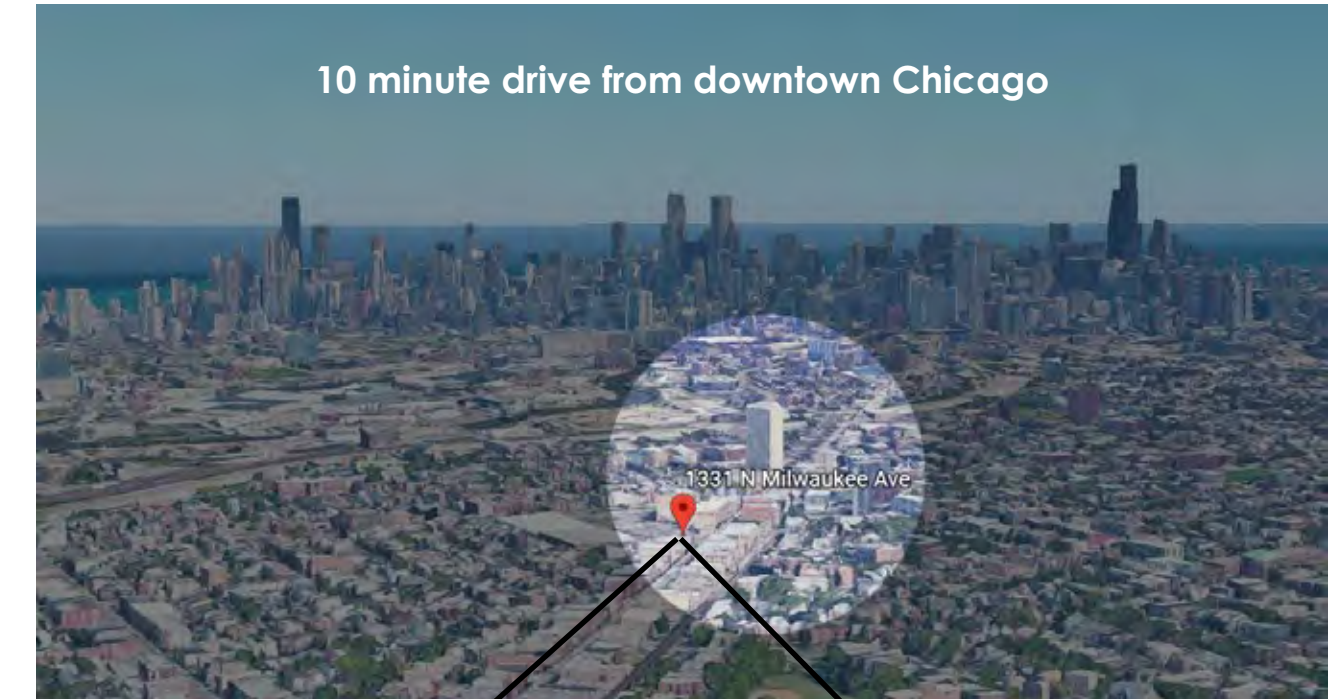
- Spread compassion & awareness
- Attack the right medical war

BUILDING & SITE ANALYSIS



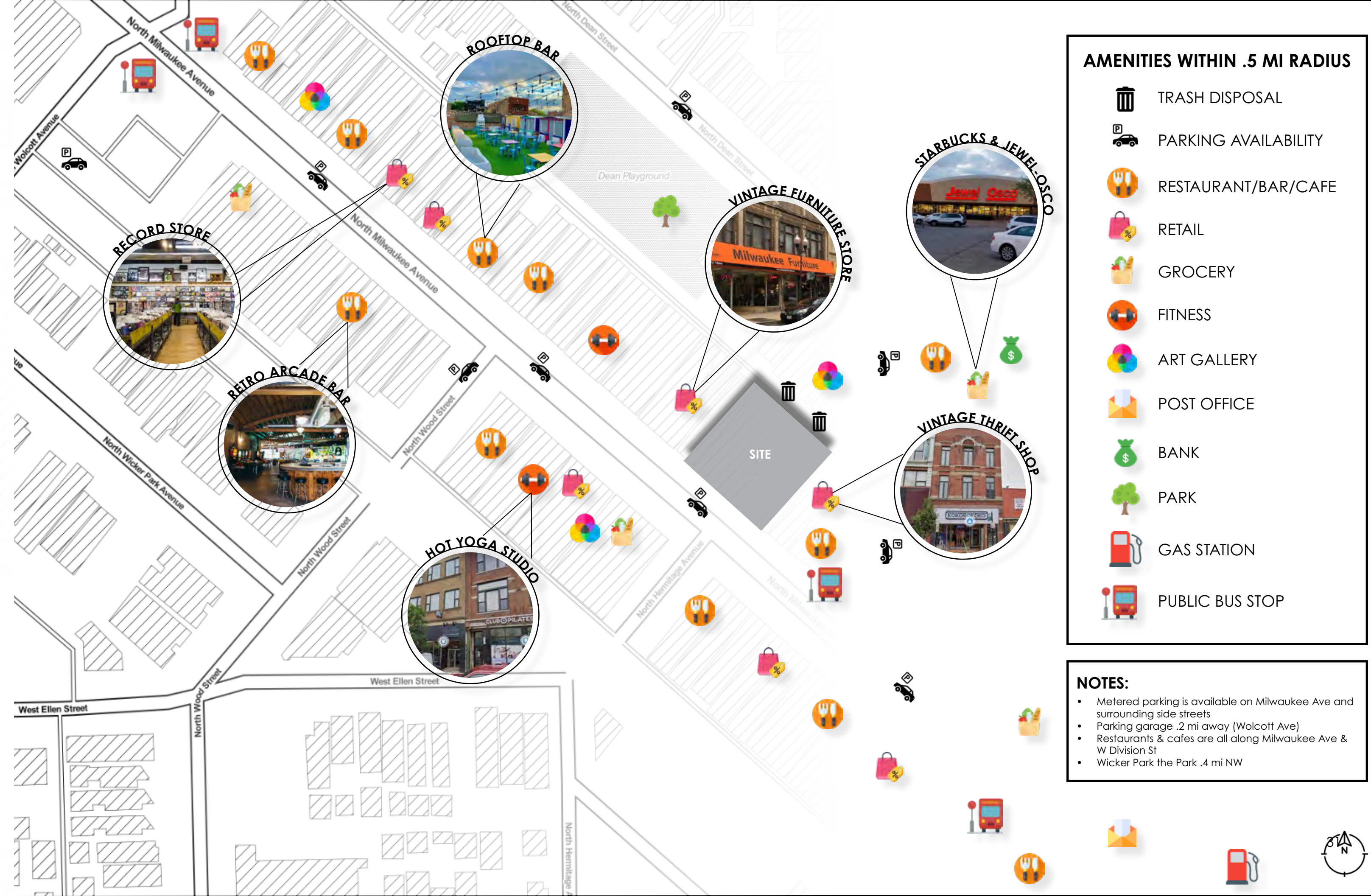
BUILDING & SITE

ADAPTIVE REUSE THEATER → DIALYSIS CENTER



URBAN NEIGHBORHOOD OF WICKER PARK

1327-1335 N. MILWAUKEE AVE, CHICAGO, IL 60622



- AMENITIES WITHIN .5 MI RADIUS**
- TRASH DISPOSAL
 - PARKING AVAILABILITY
 - RESTAURANT/BAR/CAFE
 - RETAIL
 - GROCERY
 - FITNESS
 - ART GALLERY
 - POST OFFICE
 - BANK
 - PARK
 - GAS STATION
 - PUBLIC BUS STOP

- NOTES:**
- Metered parking is available on Milwaukee Ave and surrounding side streets
 - Parking garage .2 mi away (Wolcott Ave)
 - Restaurants & cafes are all along Milwaukee Ave & W Division St
 - Wicker Park the Park .4 mi NW



PROGRAMMING

FIRST FLOOR: 11,547 SQ FT | KNOWLEDGE, ABSORPTION, GROWTH

SPACE	SIZE (XS, S, M, L, XL)	QTY.	OCCUPANCY TYPE	AREA	LOAD FACTOR	TOTAL (GROSS)
Reception/Lobby #1	M	1	A-3 Assembly	30' X 15' = 683 SQ FT	15 net	45
Medical Insurance Room #2	XS	1	S Storage	8' X 6'-4 3/4" = 51 SQ FT	300 gross	1
Family Consultation Room #3	S	1	B Business	13" X 8- 6 1/4" = 111 SQ FT	100 gross	2
Family Consultation Room #4	S	1	B Business	14-4 1/2" X 8- 6 1/4" = 122 SQ FT	100 gross	2
Support Group #5	M	1	B Business	19'-11" X '19-11 1/2" = 459 SQ FT	100 gross	5
Lecture Theater #6	XL	1	A-3 Assembly	3335 SQ FT	208 per seat	16
Community Courtyard #7	L	1	A-3 Assembly	32'-4 1/4" X 42' = 1360 SQ FT	15 net	91
Diabetic Friendly Cafe #8	M	1	A-2 Assembly	31'-7" X 22'-3/4" = 686 SQ FT	15 net	46
Library #9	M	1	A-3 Assembly	32'-4 1/4" X 26'-1/4" = 673 SQ FT	100 net	7
Fitness/Yoga Room #10	M	1	A-3 Assembly	24'-2 X 22-3/4" = 540 SQ FT	50 gross	11
				8020 SQ FT		226

SUPPORT	SIZE (XS, S, M, L, XL)	QTY.	OCCUPANCY TYPE	AREA	LOAD FACTOR	TOTAL (GROSS)
W.C. #11 #12	XS	2	A-3 Assembly	6' X 7" = 42 SQ FT	15 net	3 (6)
Men's Restroom #13	S	1	A-3 Assembly	8'-10 3/4" x 15-10 3/4"= 141 SQ	15 net	9
Women's Restroom #14	S	1	A-3 Assembly	8'-10 3/4" x 21'- 3/4"= 188 SQ FT	15 net	13
Mechanical #15	XS	1	S Storage	4'-7" X 6'-11 1/2" = 32 SQ FT	300 gross	1
Electrical #16	XS	1	S Storage	4'-7" X 6'-11 1/2" = 32 SQ FT	300 gross	1
Janitor's Closet #17	XS	1	S Storage	7'-1 1/4"X 5'-1 1/2" = 36 SQ FT	300 gross	1
				471 SQ FT		31

NET: 8491 SQ FT
 CIRCULATION (35% of Net): 2972 SQ FT
 GROSS: 11,463 SQ FT
 REMAINING: 84 SQ FT

TOTAL OCCUPANTS: 257

A-2 ASSEMBLY:46 (686 SQ FT TOTAL)
 A-3 ASSEMBLY: 198 (6962 SQ FT TOTAL)
 S STORAGE: 4 (151 SQ FT TOTAL)
 I-2 INSTITUTIONAL: 0
 B BUSINESS: 9 (692 SQ FT TOTAL)

PROGRAMMING

SECOND FLOOR: 11,194 SQ FT | TREATMENT, MANAGEMENT, RECOVERY

SPACE	SIZE (XS, S, M, L, XL)	QTY.	OCCUPANCY TYPE	AREA	LOAD FACTOR	TOTAL (GROSS)
Community Courtyard #18	XL	1	A-3 Assembly	2315 SQ FT	15 net	154
Clinical Exam Room #19	XS	2	S Storage	10'-7" X 11'-10" = 125 SQ FT	300 gross	1
Clinical Exam Room #20	XS	2	S Storage	11'-11" X 11'-10" = 141 SQ FT	300 gross	1
Clinical Exam Room #21	XS	2	S Storage	11'6 1/4 " X 11'-10" = 136 SQ FT	300 gross	1
Family Consultation Room #22	S	1	B Business	18 3/4 ' X 9'-10 1/2" = 178 SQ FT	100 gross	2
Staff Lounge #23	S	1	B Business	20'-4 3/4 ' X 10'-11 1/4" = 213 SQ FT	100 gross	2
Doctor's Office #24	S	2	B Business	10-4 1/4" X 9'-8 1/4" = 101 SQ FT	100 gross	2
Doctor's Office #25	S	2	B Business	15'-2 3/4" X 9'-8 1/4" = 146 SQ FT	100 gross	2
Dialysis Treatment Area #26	XL	12 Stations	I-2 Institutional	1950 SQ FT	100 gross	20
Educational Kitchen #27	XL	1	A-2 Assembly	46'-1 1/4" X 41'-9 1/4" = 1629 SQ FT	200 gross	8
Sanctuary #28	S	1	A-3 Assembly	26-1/2" X 21'-8 3/4" = 562 SQ FT	15 net	37
Roof Garden #29	M	1	-	1052 SQ FT	-	-
				8548 SQ FT 7316 W/O ROOF GARDEN		230

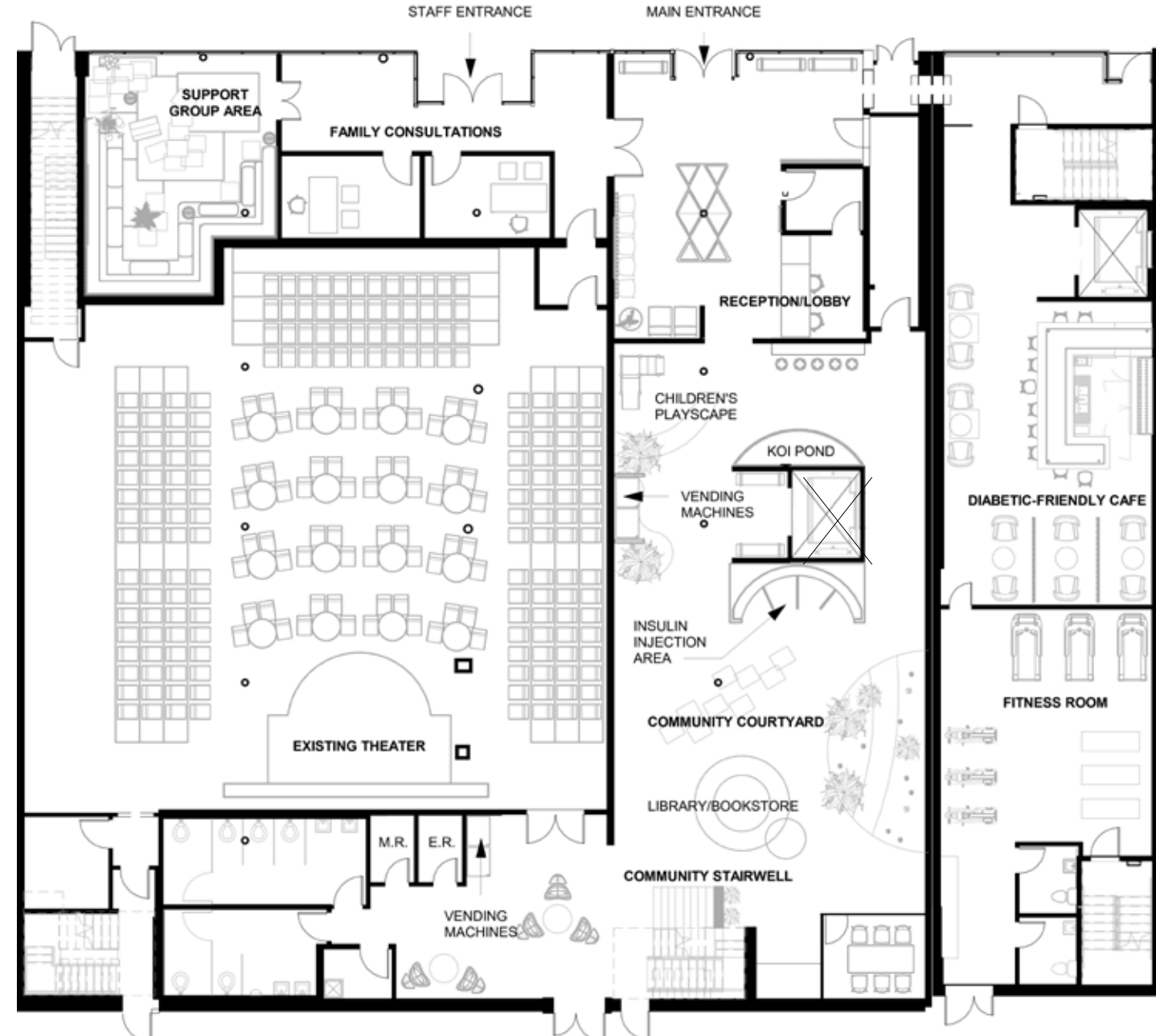
SUPPORT	SIZE (XS, S, M, L, XL)	QTY.	OCCUPANCY TYPE	AREA	LOAD FACTOR	TOTAL (GROSS)
W.C. #30 #31	XS	2	A-3 Assembly	7'-1" x 7'-3 1/2" = 52 SQ FT (104 TOTAL)	15 net	3 (6)
Men's Restroom #32	S	1	A-3 Assembly	6'-9 1/4" X 16'-7 1/2" = 112 SQ FT	15 net	7
Women's Restroom #33	S	1	A-3 Assembly	8'-3" X 16'-7 1/2" = 140 SQ FT	15 net	9
Janitor's Closet #34	XS	1	S Storage	3'-8" X 4'-11" = 18 SQ FT	300 gross	1
Mechanical #35	XS	1	S Storage	4'-8 1/2" X 6'-2 1/2" = 29 SQ FT	300 gross	1
Electrical #36	XS	1	S Storage	4'-9" X 6'-2 1/2" = 29 SQ FT	300 gross	1
W.C. #37	XS	1	A-3 Assembly	4'-9 1/2 " X 4'-4 1/2" = 21 SQ FT	15 net	1
				401 SQ FT		26

NET: 7717 SQ FT
 CIRCULATION (35% of Net): 2700 SQ FT
 GROSS: 10,417 SQ FT
 REMAINING: 777 SQ FT

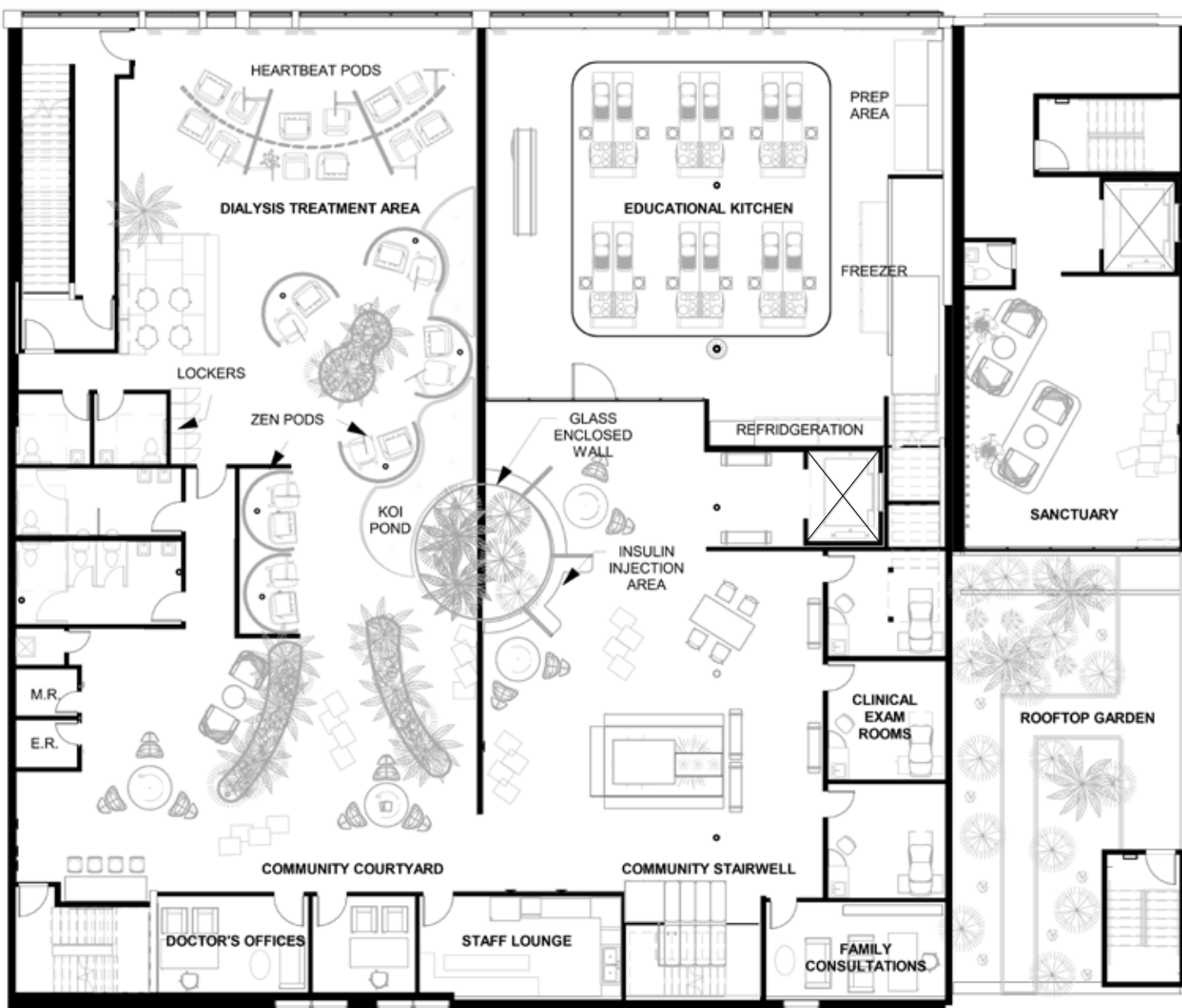
TOTAL OCCUPANTS: 256

A-2 ASSEMBLY: 8 (1629 SQ FT TOTAL)
 A-3 ASSEMBLY: 214 (3202 SQ FT TOTAL)
 B BUSINESS: 8 (638 SQ FT TOTAL)
 I-2 INSTITUTIONAL: 20 (1950 SQ FT TOTAL)
 S STORAGE: 6 (478 SQ FT TOTAL)

FURNITURE PLAN



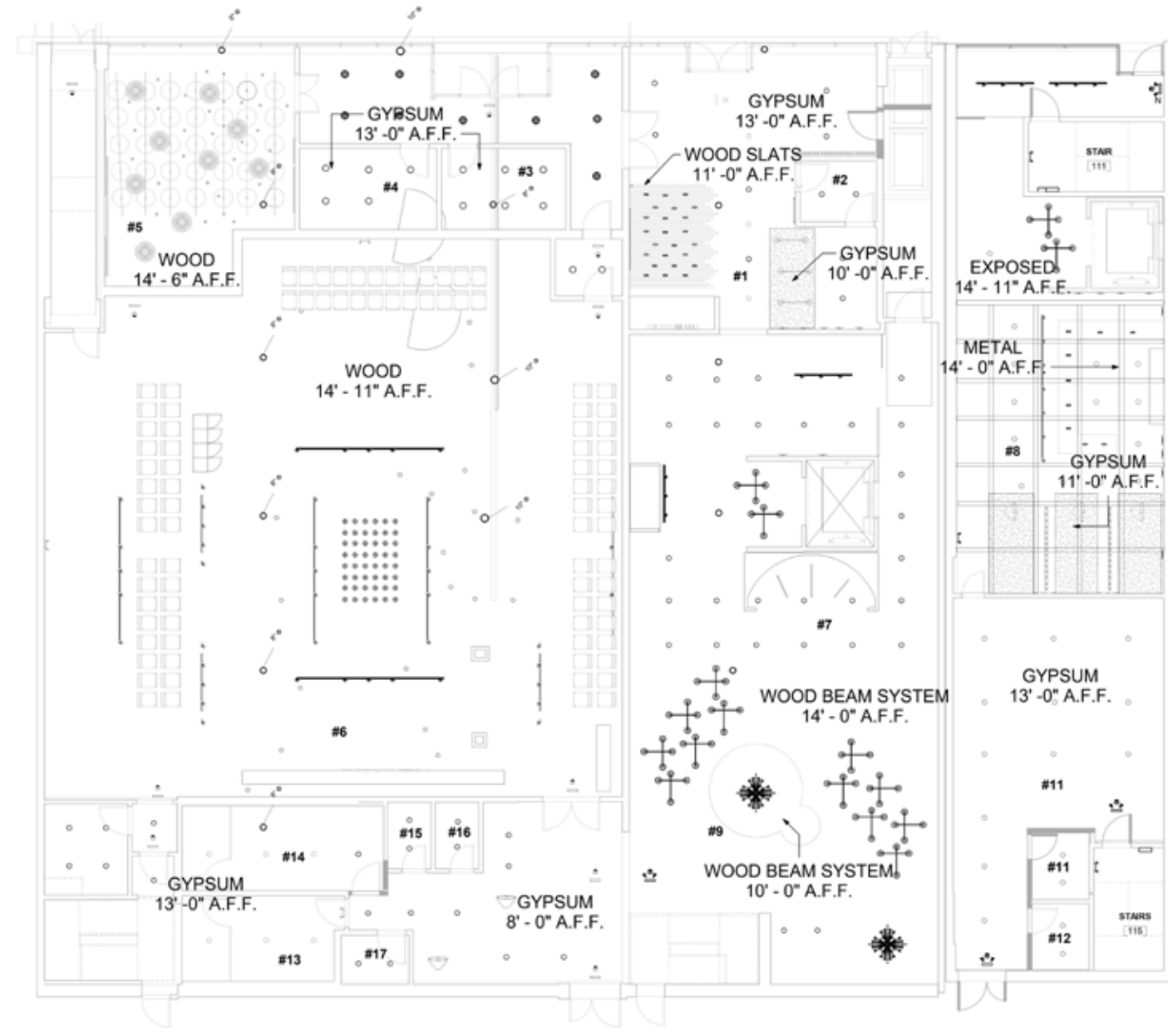
FIRST FLOOR



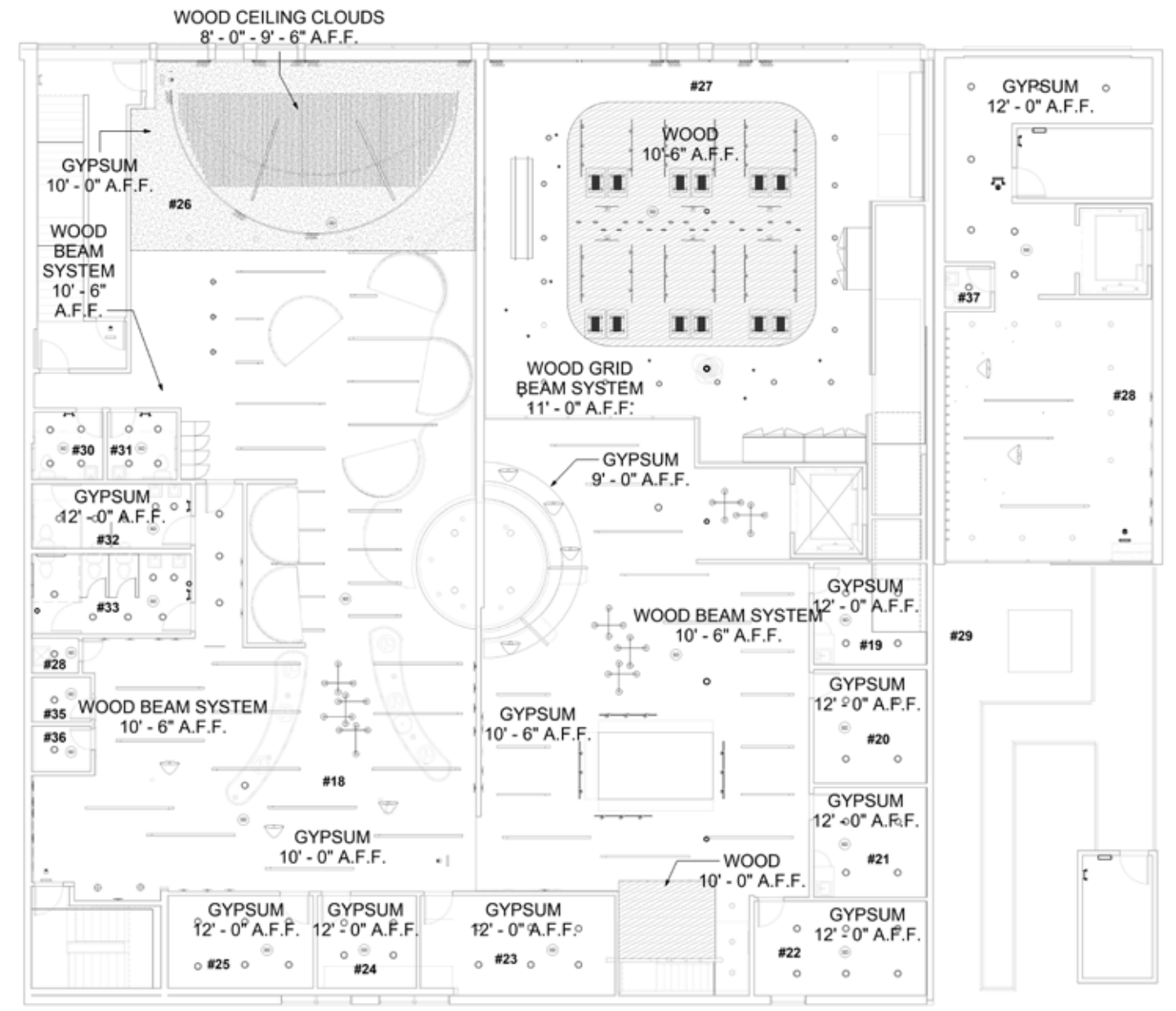
SECOND FLOOR



REFLECTED CEILING PLAN

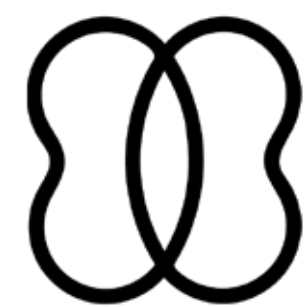


FIRST FLOOR



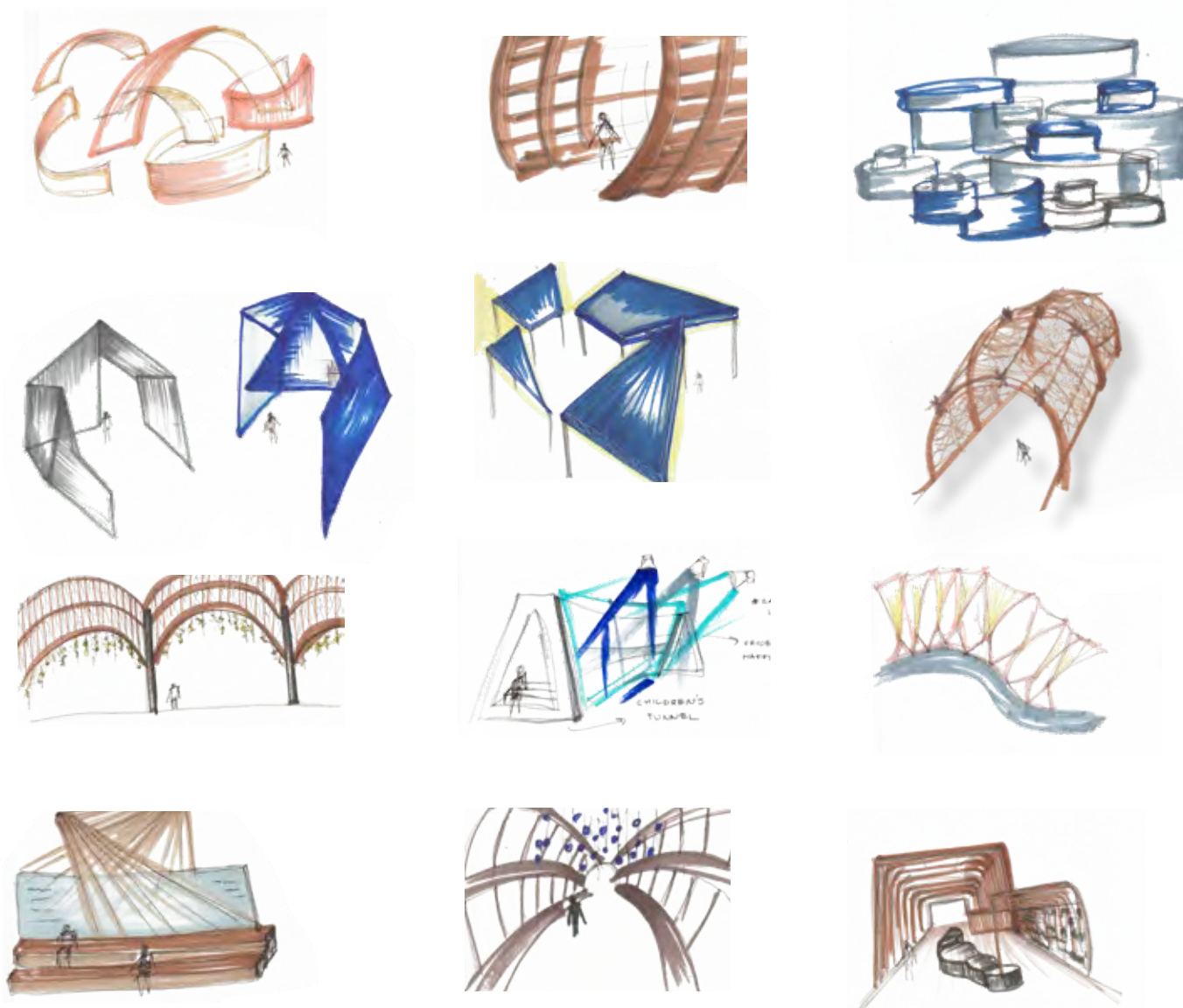
SECOND FLOOR





CONCEPTION

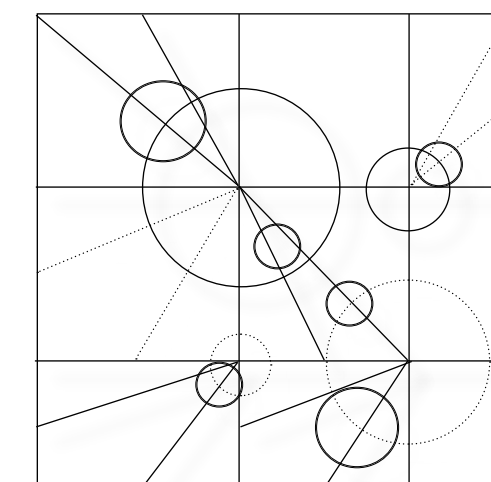
CONCEPT



Conceptual sketches are inspired from the zen imagery of climbing upwards in order to reach a sense of inner peace, wisdom, rewarding truth, or light within yourself. JOHWA is meant to release enlightenment, a new sense of awareness for diabetes, CKD, and dialysis.

Users will feel **fruitful in health, a heavenly ambiance, and transcendental in motion.**

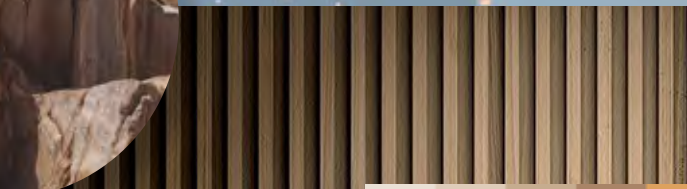
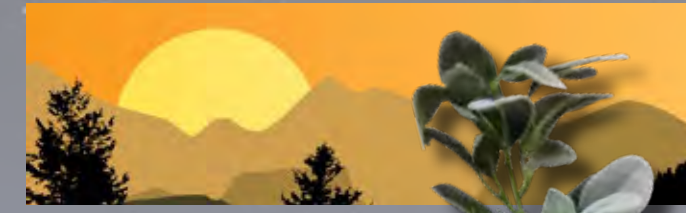
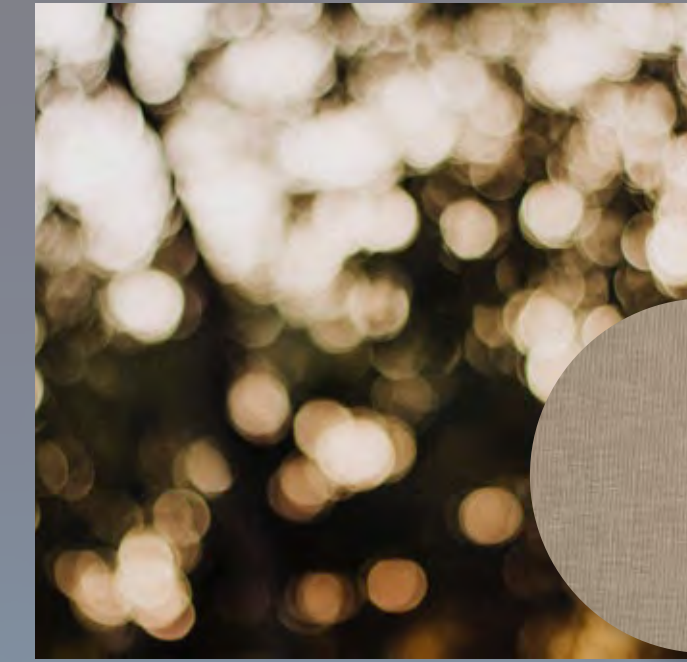
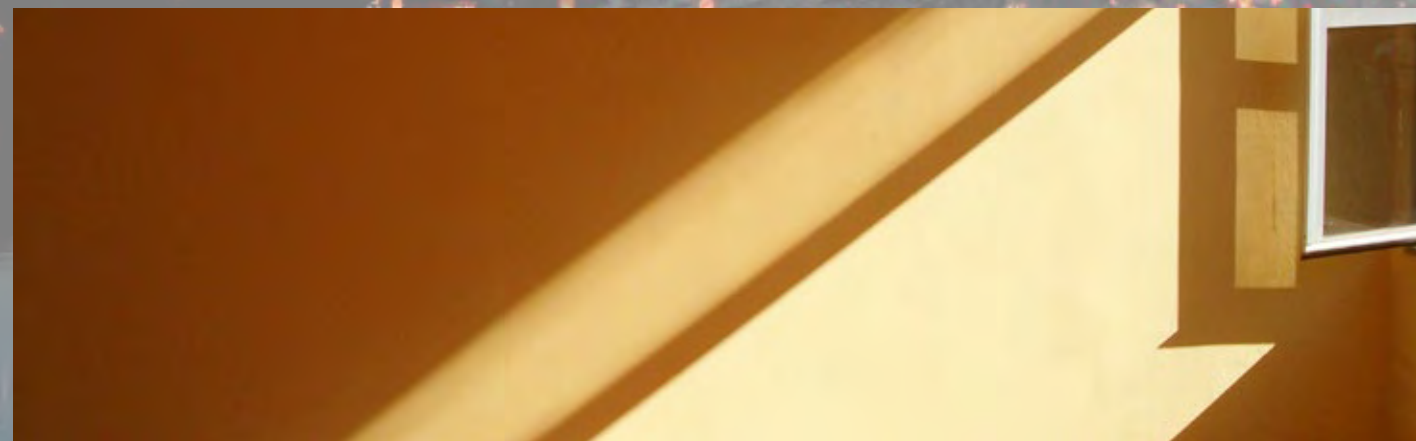
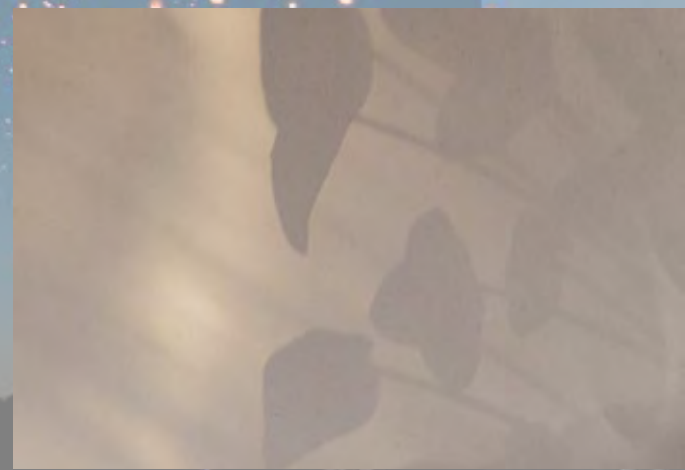
Parti diagram establishes layered safe zones, transcendental lines, shedding the old and gaining the new.



RELEASED ENLIGHTENMENT

CONCEPT STATEMENT

Enlightenment is universally the ultimate level of wisdom and peace. We yearn for this goodness because it spiritually holds us together. Johwa represents a **safe haven**, a community of those positively acknowledged where users will feel seen, related to, and totally accepted through a **transcendental, renewed experience**. All stigma, shame, blame and pain associated with diabetes will feel **lifted** and be replaced by healthy responsiveness and rewarding truth. Follow the fruitful lights in the world's darkness to release your enlightenment because when you do, **a therapeutic environment nobody ever expected to be one will be born and blessed.**





MEDITATIVE NATURE ELEMENTS



LINEWORK THAT RESEMBLES A JOURNEY



STRONG VERTICAL + HORIZONTAL RELATIONSHIP



LATTICEWORK

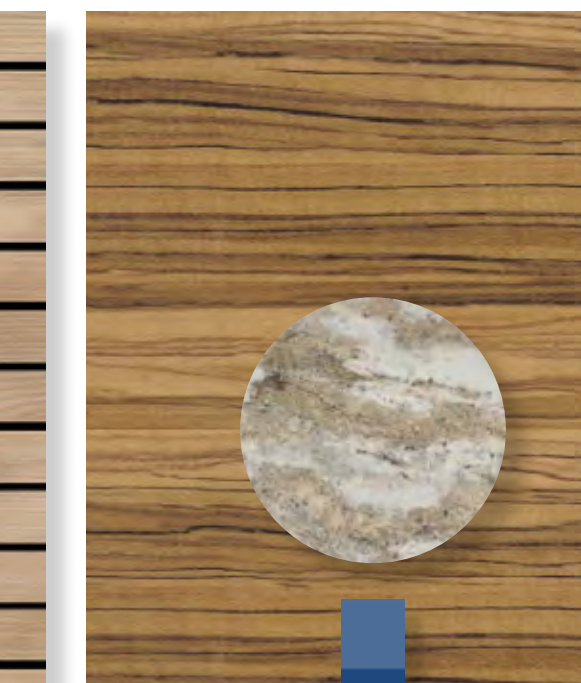


“HEAVENLY” OR “PARADISE” AESTHETICS

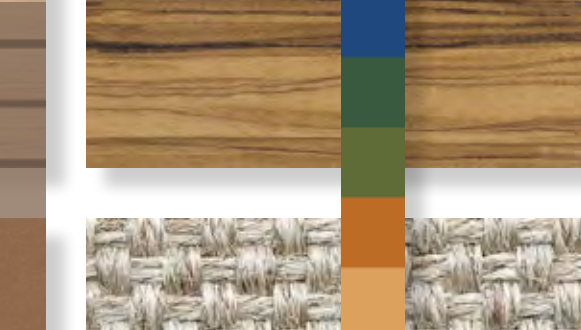


TRANSCENDING FORMS

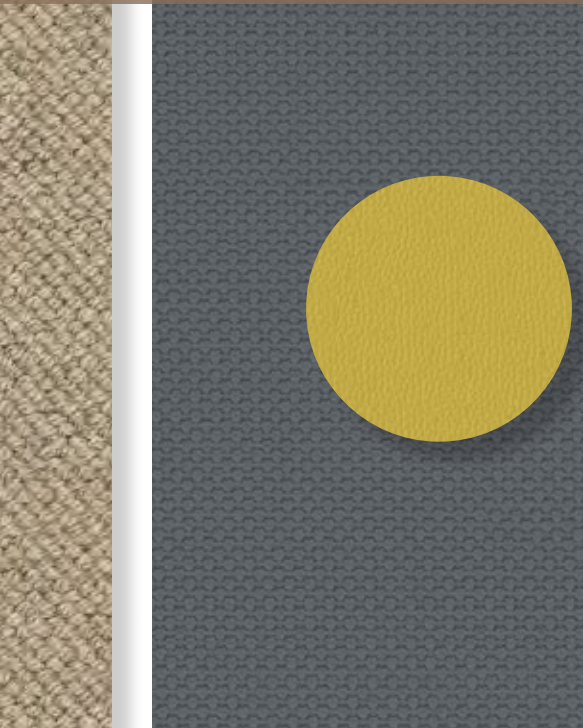
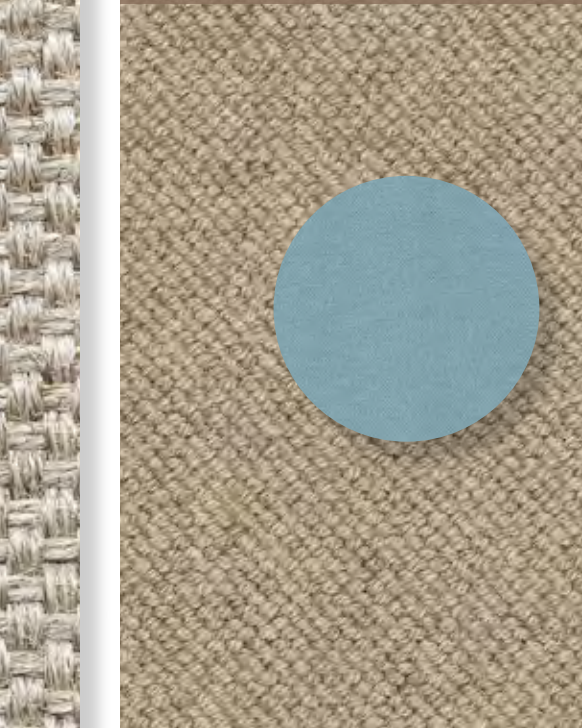
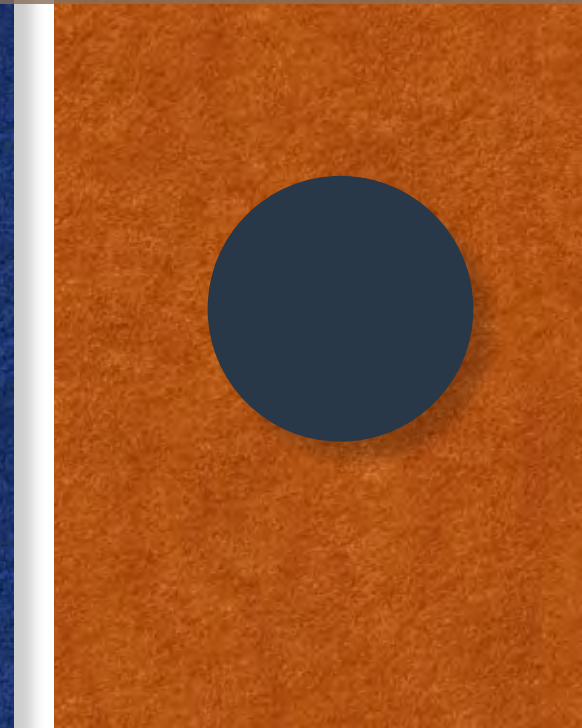
CONCEPT APPLICATION | MATERIALITY & COLOR PALETTE



Color palette contains earthy clay tones such as terra cotta and orange because clay is below us. Blues represent the waters of the earth, which is a level higher. And then the neutrals such as beiges and whites are from the colors of above, light or heaven.



Various light grain woods are used together to exemplify zen temple structures. Solid color linens and velvets are used to exemplify purified health after treatment. Patterns are only found through natural textures such as stones or metals to renew one's appreciation for raw materials.

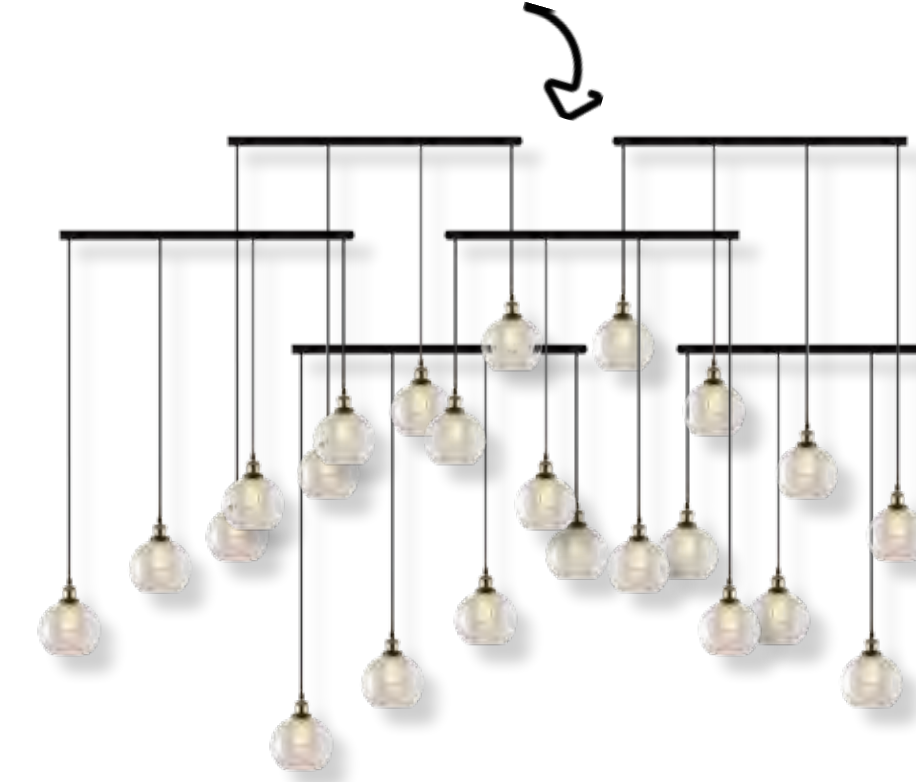


CONCEPT APPLICATION | LIGHTING



LAYERED LIGHTING TO CREATE **ART INSTALLATION EFFECT**

LINEWORK THAT **INDICATES LIFE AND BREATH**

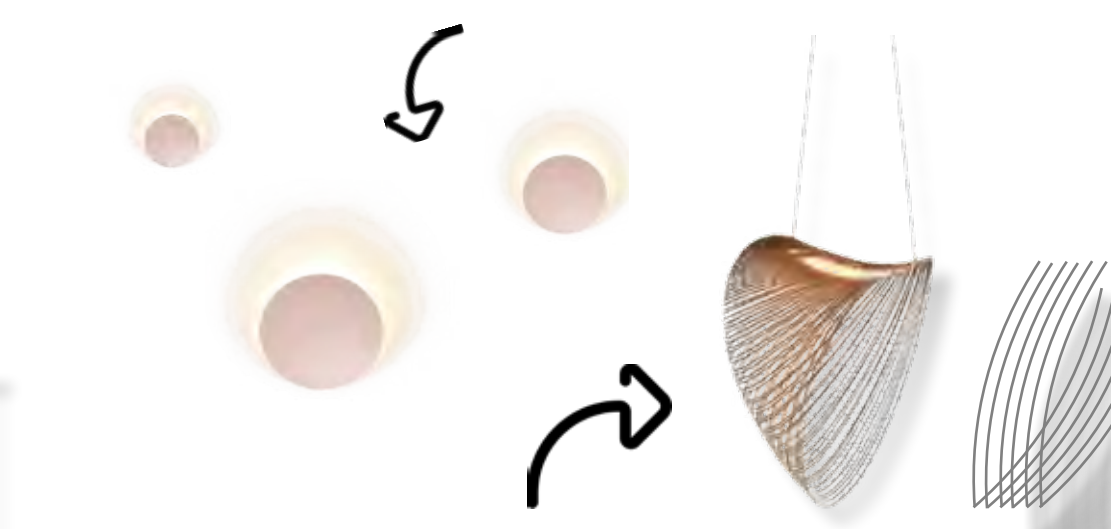


PENDANTS AT VARIOUS HEIGHTS TO RESEMBLE **TRANSCENDENTAL MOVEMENT**

BOLD LINEAR LIGHTING TO **ENCOURAGE LOOKING UP**



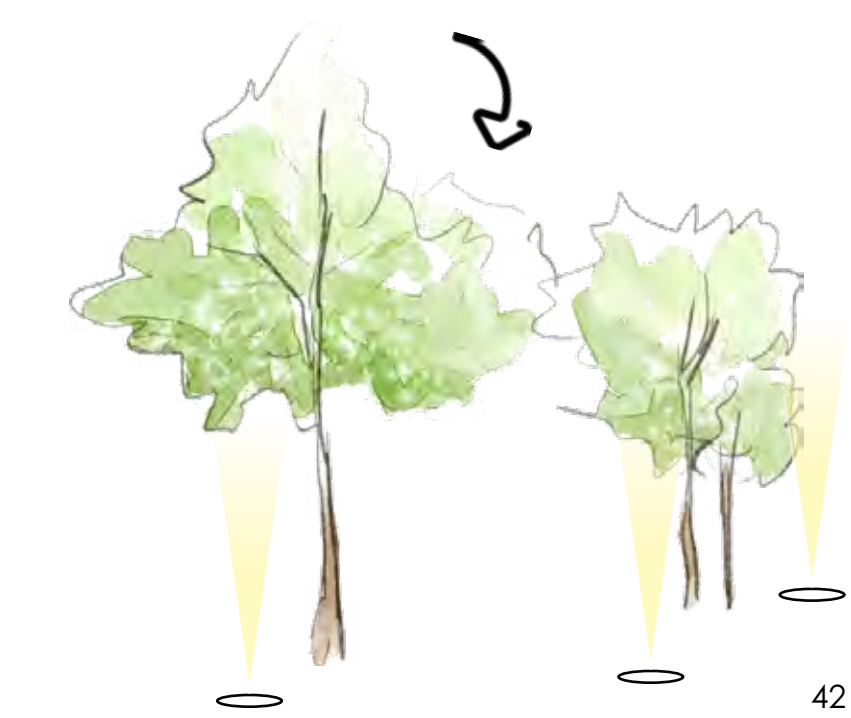
ILLUMINATION RESEMBLING THE **INNER GLOW WITHIN YOURSELF**



INTRICATE LIGHT & SHADOW PLAY TO **EMPHASIZE LIFTING EFFECTS**

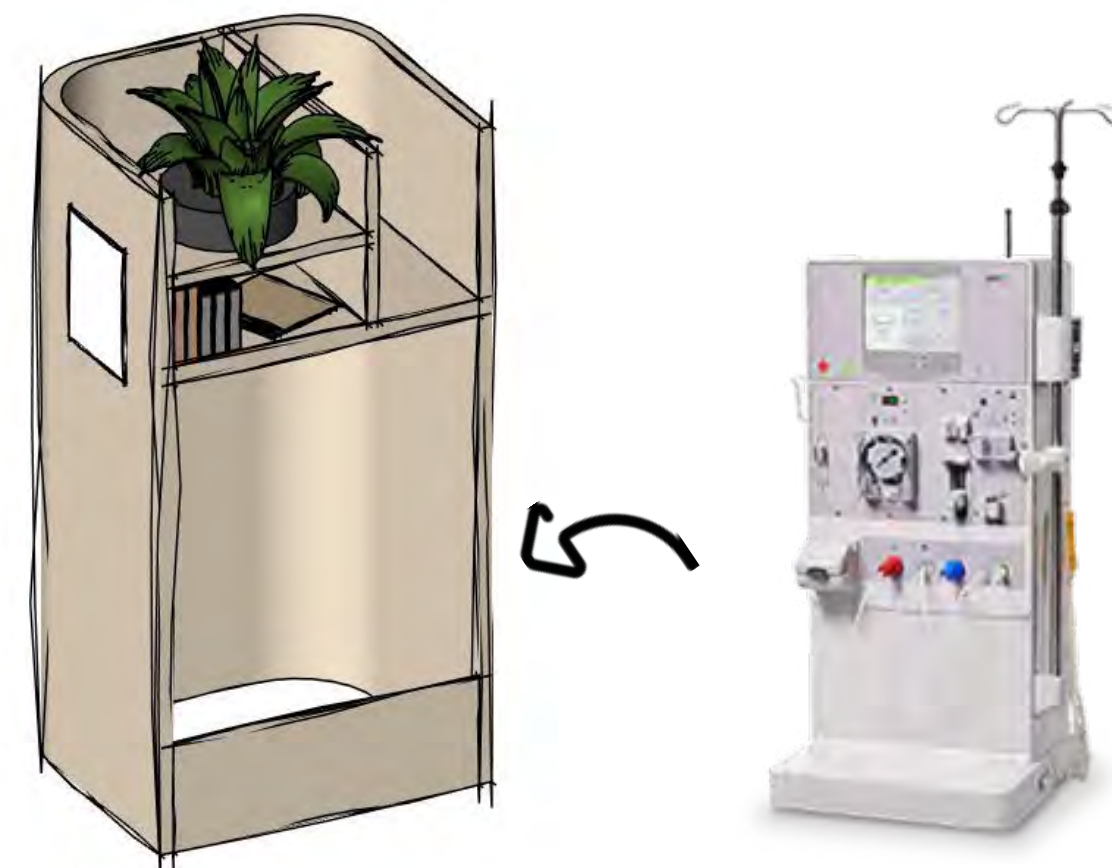


RECESSED FLOOR LIGHTS TO **ADD SPIRITUAL GLOW TO BIOPHILIC ELEMENTS**



CONCEPT APPLICATION | CUSTOM MILLWORK

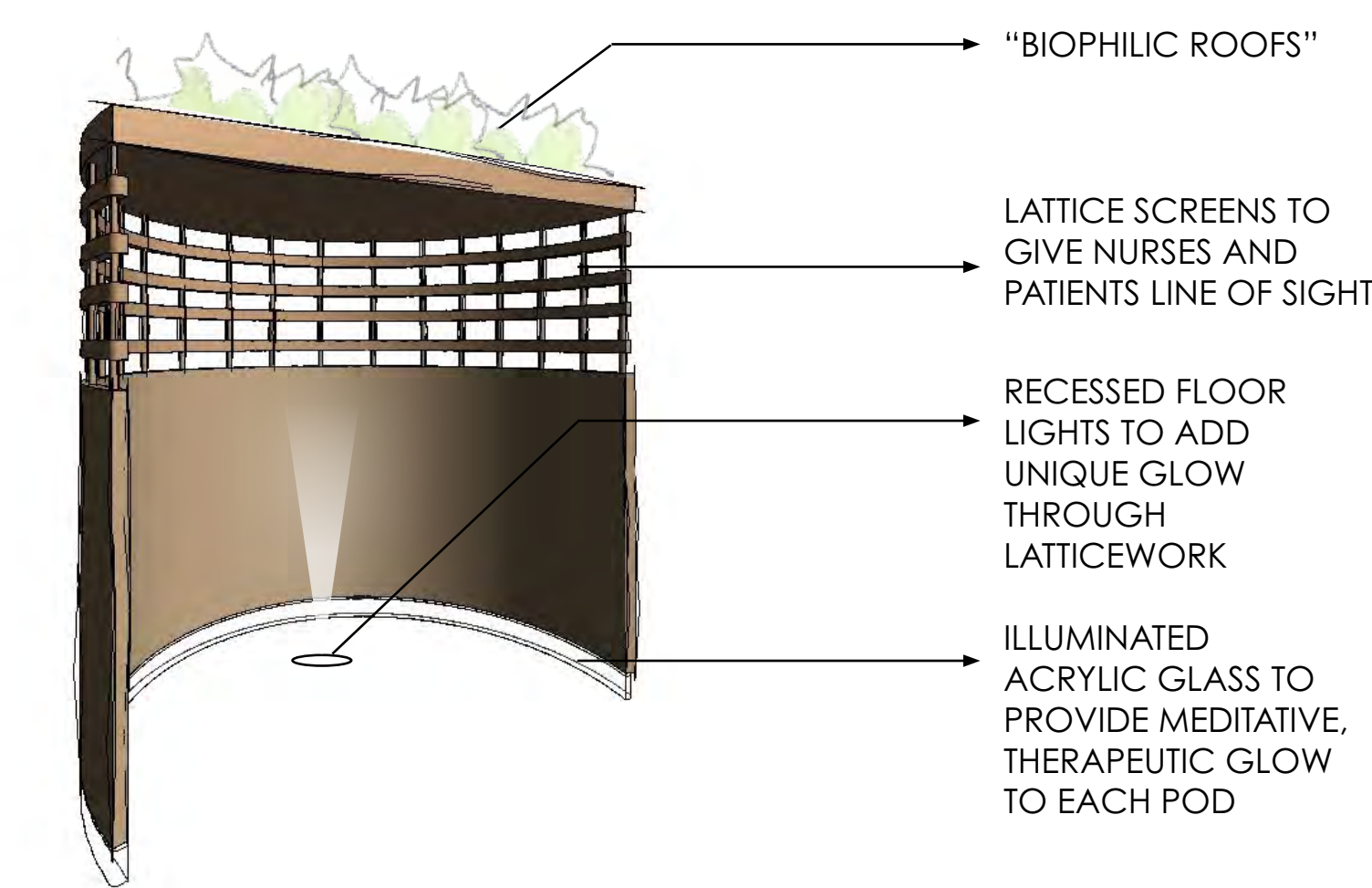
"all stigma, shame, blame and pain associated with diabetes will feel lifted..."



DIALYSIS MACHINE "COVER"

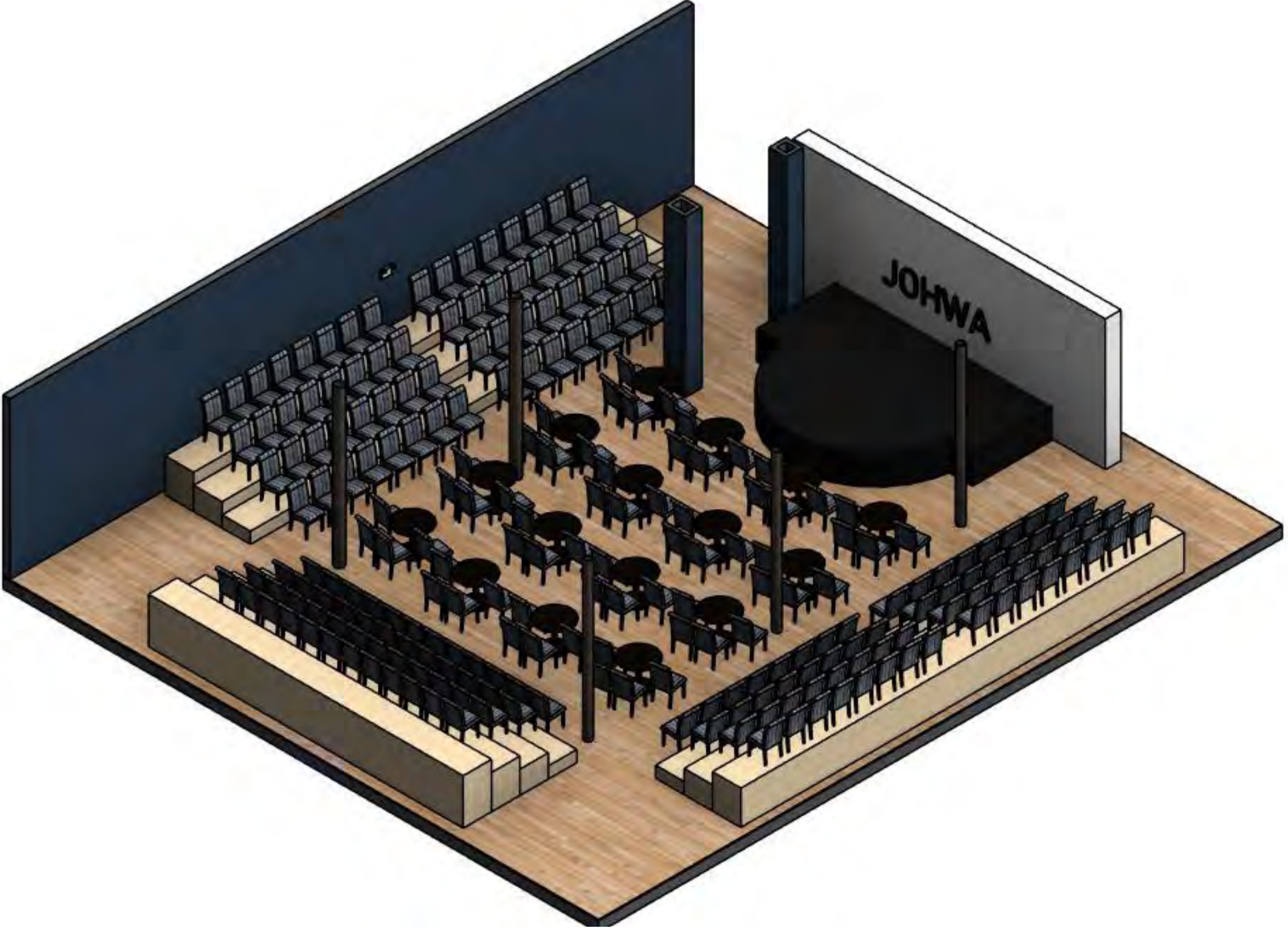
- MADE TO TRANSFORM THE "PAINFUL, STERILE, MEDICAL" LOOK TO "WARM, FRIENDLY, INVITING"
- INCLUDES SHELVING FOR PATIENTS SMALL BELONGINGS OR BOOKS/ MAGAZINES
- REDUCES SIGHT OF BLOOD/LIQUIDS FROM PATIENT TO PROVIDE RELIEF

"...spiritually holds us together..."



DIALYSIS TREATMENT "ZEN PODS"

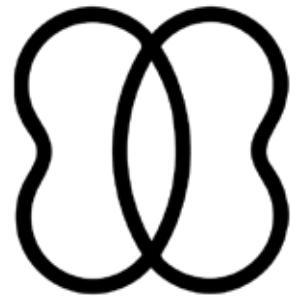
- MADE TO PROVIDE PERSONAL HEALING ZONES FOR EACH PATIENT
- SEMI-CIRCLE FORM TO HELP WITH ACOUSTICS
- PRIVATE & DURABLE
- TRANSFORMS THE CLUTTERED DIALYSIS TREATMENT IMAGERY



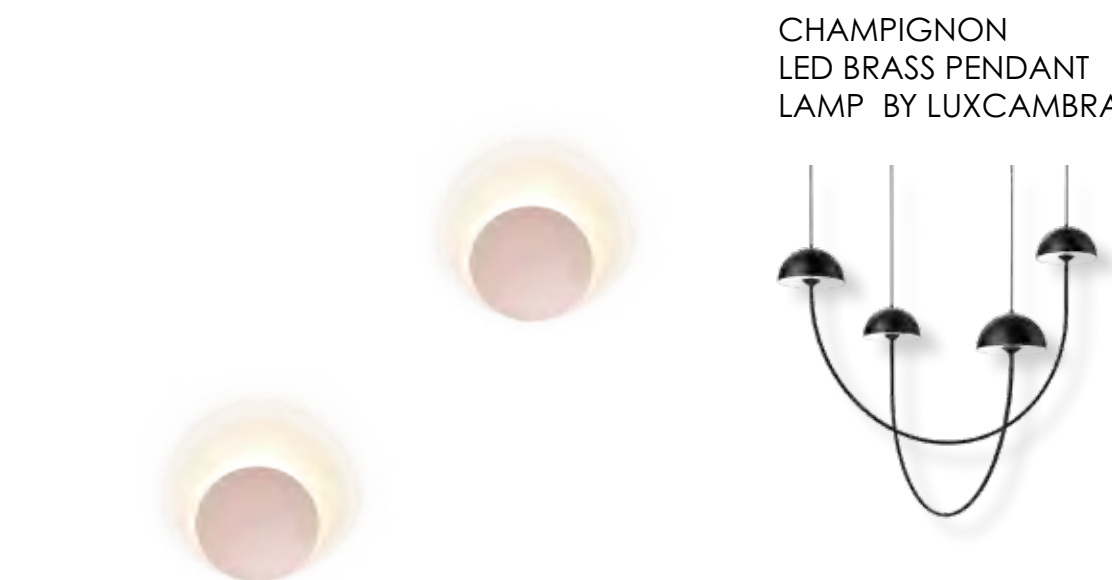
The building is an adaptive reuse theater in which JOHWA generously will establish the existing main theater space as a place for public seminars or lectures on diabetes and disease prevention or management.

Guest speakers are invited to educate users and foster a strong community of those going through the same medical journey.

The existing theater will ultimately *release enlightenment.*



DESIGN DEVELOPMENT



CHAMPIGNON LED BRASS PENDANT LAMP BY LUXCAMBRA

POLAR LED ADJUSTABLE ALUMINIUM WALL LIGHT BY ROSS GARDAM



TIMBER STRIPS WALLPAPER IN SCRAPWOOD ON TEAK BY PIET HEIN EEK

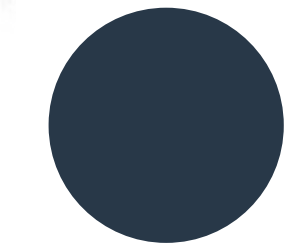
GUS MODERN RETURN BENCH



PENDANT BY BOMMA



CROSSHATCH SIDE CHAIR BY HERMAN MILLER



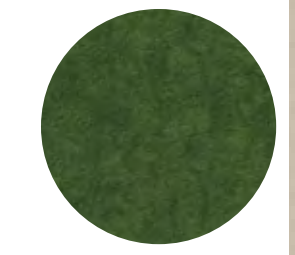
SHERWIN WILLIAMS 9178 IN THE NAVY



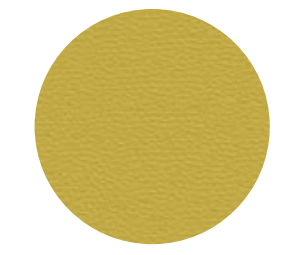
SHERWIN WILLIAMS 7634 PEDIMENT

RECEPTION/LOBBY

SAMSUNG THE FRAME SERIES QLED SMART 4K UHD TV



SHERWIN WILLIAMS 7634 PEDIMENT



SOLID COLOR VELVETS, LINENS, LEATHERS

RECYCLED VINYL COMPOSITE TILE: CORETEC PRO PLUS SPRINGFIELD OAK 7"X48" BY GREEN FLOORING SUPPLY



BUZZLIGHT MONO BY BUZZSPACE



BAZALTO POUF BY MDD

SUPPORT GROUP



SANCTUARY



COMMUNITY COURTYARD



BOSCH 36" STAINLESS STEEL BOX CANOPY CHIMNEY HOOD

FLAT SCREEN TV CEILING MOUNT - 1.5M POLE BLACK

PENDANT BY BOMMA

EMECO STOOL BY EMECO

OUTDOOR KITCHEN BY KETAL

EDUCATIONAL KITCHEN



POLAR LED ADJUSTABLE ALUMINIUM WALL LIGHT BY ROSS GARDAM

PENDANT BY BOMMA

RECYCLED VINYL COMPOSITE TILE: CORETEC PRO PLUS SPRINGFIELD OAK 7"X48" BY GREEN FLOORING SUPPLY

ILLAN LED MULTI-LAYER WOOD PENDANT LAMP BY LUCEPLAN

RUM BY WIENER GTV DESIGN

LOVEDUP ARMCHAIR BY DEADGOOD

ALFI HIGH STOOL BY EMECO

DIABETIC FRIENDLY CAFE

REBA 65 LED LINE BY INDELAGUE - ROXO LIGHTING



ADJUSTABLE MOUNTING TV ARM BY GCX



AVA ARCADE BACK RECLINER BY NEMSCHOFF (WITH HEAT & MASSAGE)



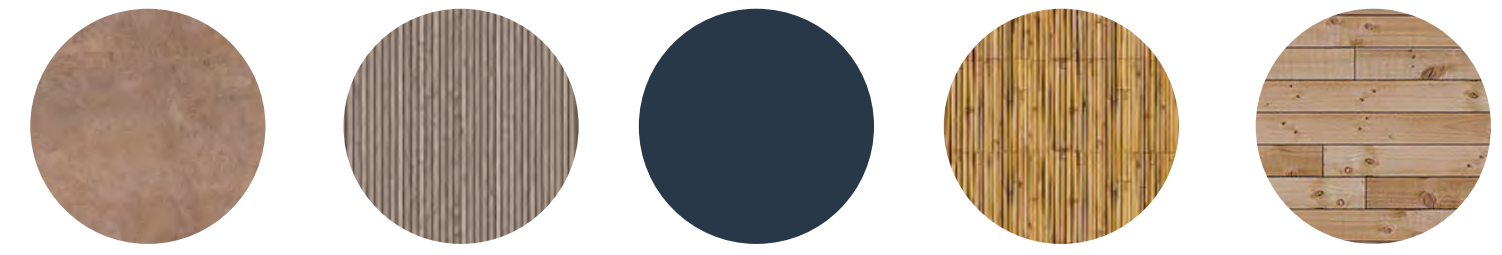
AVA WINGBACK RECLINER BY NEMSCHOFF (WITH HEAT & MASSAGE)



EMPATH MEDICAL RECLINER CHAIR BY STEELCASE HEALTH



LENOX SOLID PLASTIC 5-TIER CUBBY LOCKERS BY BRADLEY CORP.



RECYCLED VINYL COMPOSITE TILE: CORETEC PRO PLUS SPRINGFIELD OAK 7"X48" BY GREEN FLOORING SUPPLY

PERDURE NE25 100% SOLIDS NOVOLAC EPOXY COATING

DIALYSIS TREATMENT AREA



FINAL DESIGN



RECEPTION/LOBBY



FIRST FLOOR

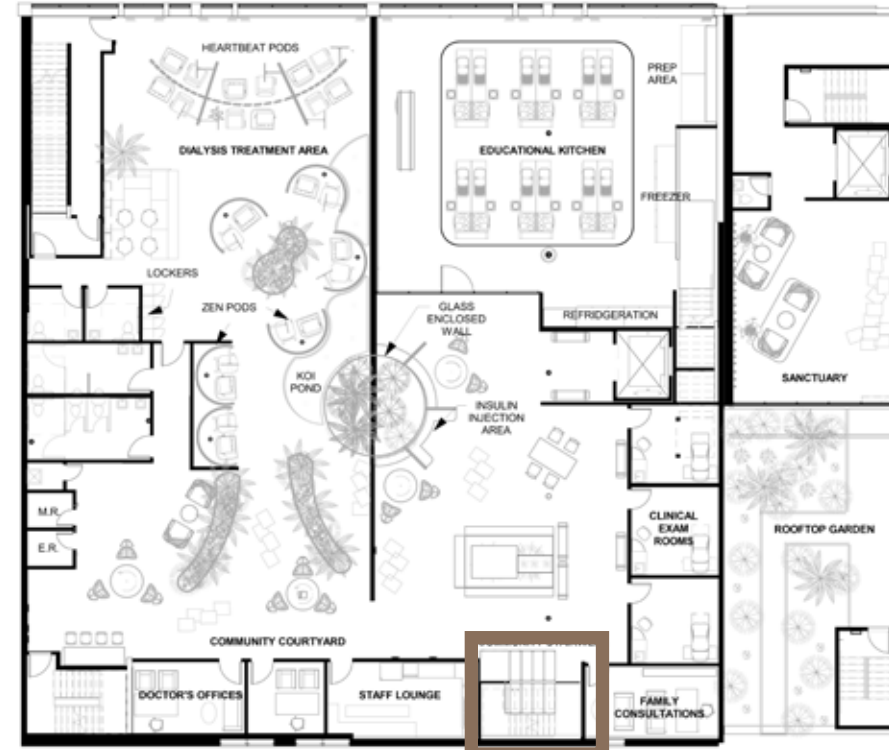
PLAN NOT TO SCALE

In order for JOHWA to have an outstanding first impression, the reception and lobby area will invite users to a flavorful waiting area where a LED illuminated signage, comfortable waiting chairs, and a dropped slatted ceiling above will create an eye catching aura for visitors. Custom elements include the ADA accessible reception desk, central millwork seating around the existing column, and a case for the vertical digital kiosk. The receptionist will have generous space for the medical insurance storage room as well.



2

COMMUNITY STAIRWELL



SECOND FLOOR

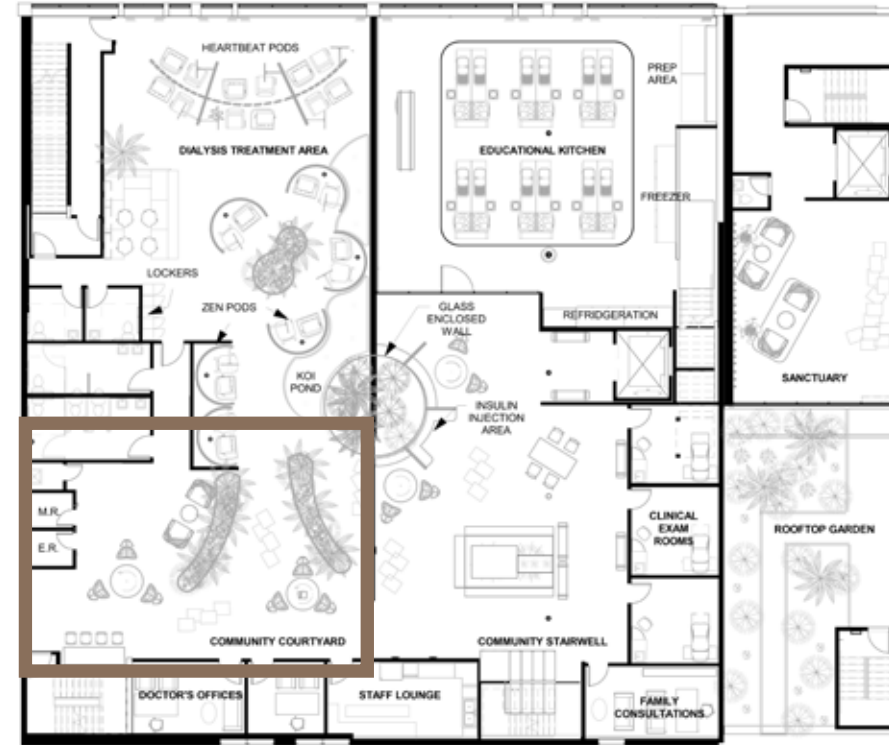
PLAN NOT TO SCALE

Users passing through levels will see the Community Stairwell immediately and feel a sense of strong gathering. Custom built-in book shelving, glass pendants at various heights, and intriguing biophilic displays elevate this huddle area as a place of thoughtful conversations and self-education.



3

COMMUNITY COURTYARD



SECOND FLOOR

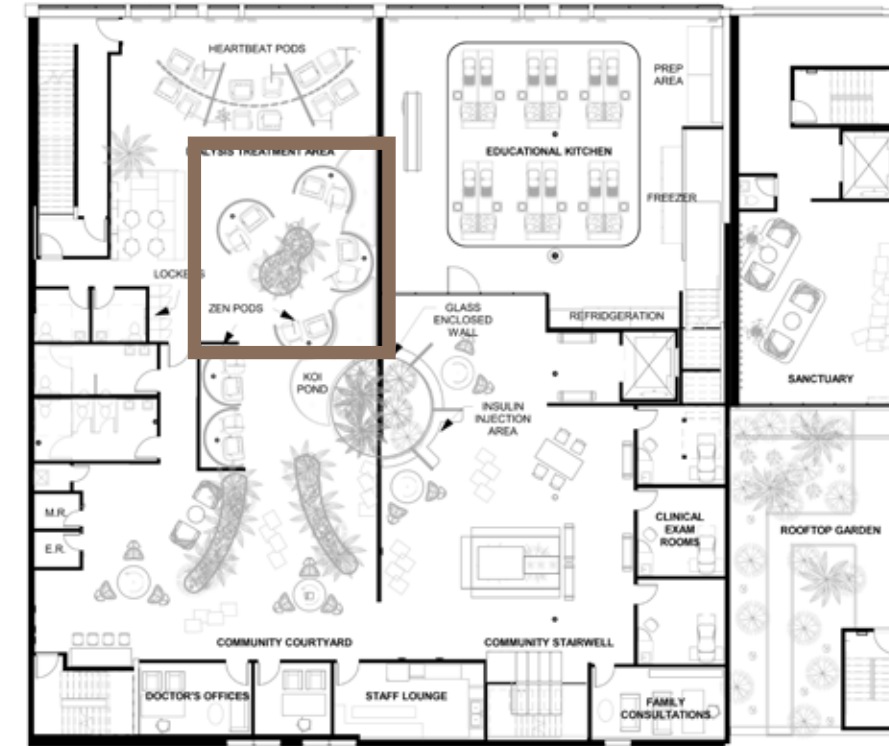
PLAN NOT TO SCALE

JOHWA is meant to represent a strong community of users living with diabetes, CKD, and dialysis. Therefore, gathering spaces such as this courtyard are designed to be fully therapeutic through the use of biophilic displays (derived from the study of Supportive Design Theory and Nursing Environmental Theory). This will be where users meet other users who are also affected by diabetes, CKD, and dialysis. A highly friend and family-friendly area, the community courtyard features lounge spaces for users to wait for their loved ones while they receive treatment. The lively walk through will ease any feelings of dread before heading into treatment. Patients may also lounge here after treatment before transportation or until the next patient arrives.



4

DIALYSIS TREATMENT AREA (ZEN PODS)



SECOND FLOOR

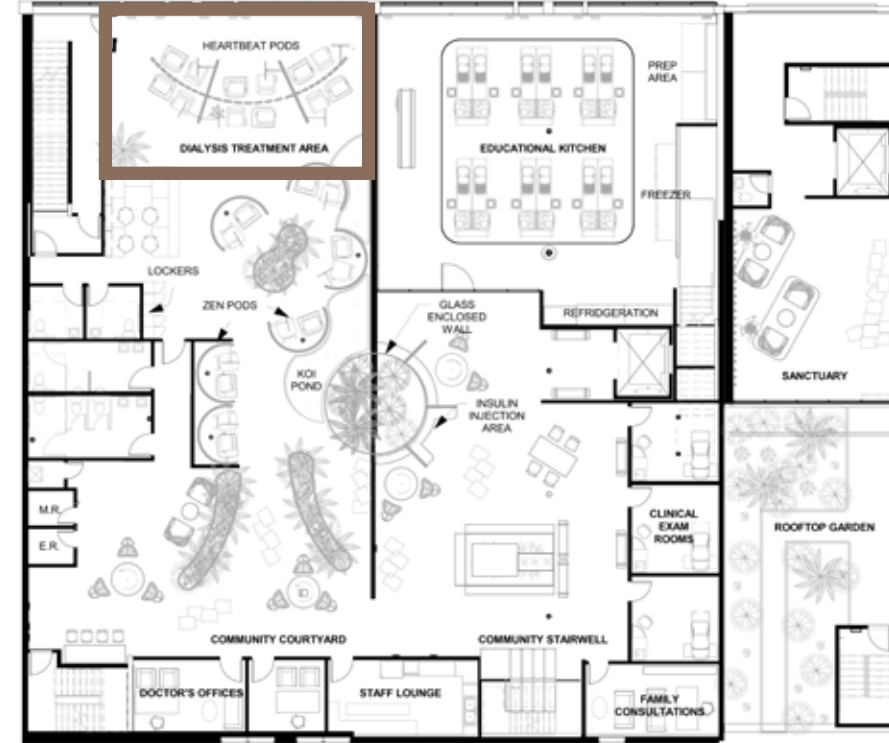
PLAN NOT TO SCALE

The Zen Pods of the Dialysis Treatment Area are custom built to represent the concept first hand because it encourages users to feel lifted in their own healing process. The pods represent zen temple structures, emphasized by their grand heights, latticework, and warm wood textures. Users will notice the selection of ergonomic tv mounts, heightened sense of privacy, and a spa-like atmosphere due to the koi-pond behind that is releasing therapeutic aquatic sounds. Access to a natural view was key in achieving an elevated healing experience due to the Supportive Design Theory.



5

DIALYSIS TREATMENT AREA (HEARTBEAT PODS)



SECOND FLOOR



The Heartbeat Pods of the Dialysis Treatment Area gets its name from the ceiling design, where the slatted beams are hung to replicate a heartbeat lifeline. This follows the concept because before reaching enlightenment, awareness of life and breath needs to be achieved. LED strips are placed above and in between the slats to create a halo glowing effect, emphasized by the curvature of the curtain rod. Each patient is identified through illuminated number signage, given privacy through the semi-sheer beige curtains, and most importantly, provided a new sense of visual relief by the custom dialysis machine cover. A selection of pods are oriented outwards so users may overlook urban views and natural light during treatment.



6

DIABETIC-FRIENDLY CAFE

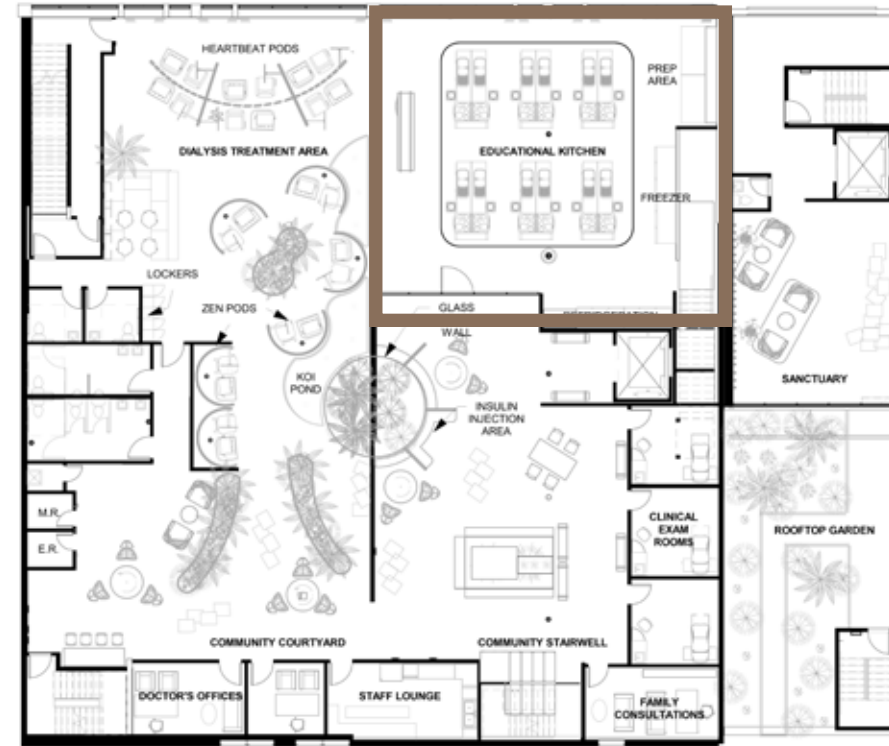


After treatment, it is common for patients to desire nutritional intakes in order to help balance certain vital levels. This cafe will feature a generous menu of diabetic-friendly snacks and drinks for users to feel refreshed after hours of dialysis. Green tones are to represent a healthy-eating facility while also promoting the green light to carry on and fight on the rest of the day without letting treatment overwhelm users. Grab a *cup of jo-hwa* to gain energy for everything else the building has to offer.



7

EDUCATIONAL KITCHEN



SECOND FLOOR

PLAN NOT TO SCALE

Post the caffeine fix from the diabetic-friendly cafe comes the motivation to pick up a diabetic-friendly recipe in the Educational Kitchen. This is the designated space for all the cooking classes related to nutritional management and care for diabetes. Ceiling mounted TV's are connected to a camera up front where the head chef can lead a live tutorial with plenty of open shelving, wine racks, and dynamic spotlighting. Sufficient natural light will shine through, creating playful reflections on the floor and grid beam ceiling.



8

SUPPORT GROUP



FIRST FLOOR

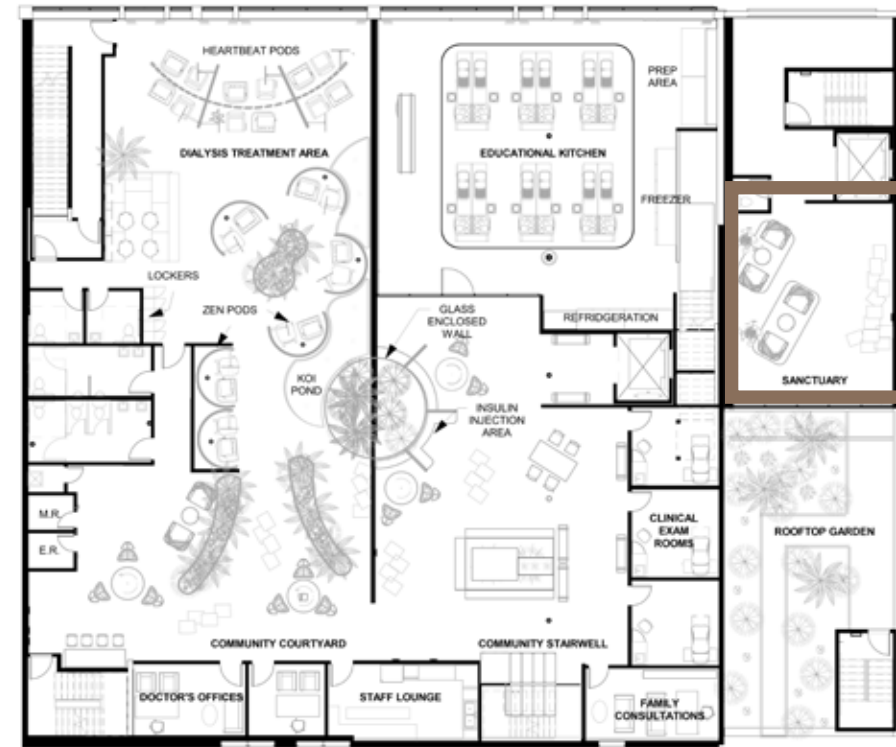
PLAN NOT TO SCALE

The Support Group Area was highly requested from research survey participants because they want to meet others going through the same medical journey. The space invites users to a warm backyard chat aura, where it reimagines the typical support group layout of chairs placed in a circle. The improved layout includes that original radial design, but more elevated, lush, and friendly. The space features a TV art installation wall, mobile poufs, dimmable lights to set the mood, mobile whiteboard, and a custom millwork seating with velvet cushioning.



9

SANCTUARY

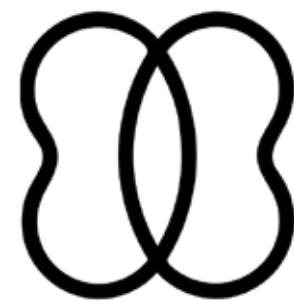


SECOND FLOOR

PLAN NOT TO SCALE

At the end of the day, providing a contemplative space for users is important because it acts as a sanctuary of privacy and peace. After going through treatment and numerous activities, all a user needs is a retreat to reflect on everything. The JOHWA sanctuary is directly connected to the rooftop garden where natural light will diffuse through glass panels, creating heavenly rays through the warm, quiet room filled with delightful lounge seating and therapeutic plant life. The rooftop garden features greens for the kitchen/cafe such as kale, spinach, arugula, tomato, carrot, and cucumber. Plantlife includes lavender and pampas grasses in order to attract peaceful wildlife such as hummingbirds or butterflies.





“I was determined to share my positive approach and not let diabetes stand in the way of enjoying my life.”

-Paula Deen