



# KaleidoCare Pediatrics

Pediatric Healthcare Facility

# CONTENTS

INTRODUCTION

RESEARCH

SITE AND BUILDING

PROGRAMMING

USERS

TECHNICAL DRAWINGS

MATERIALS

BIBLIOGRAPHY

# INTRODUCTION

PROJECT STATEMENT  
PROJECT GOALS AND QUESTIONS

# Position Statements

## Project Statement

Inspired by the theme of a kaleidoscope, this pediatric healthcare facility brings together **dental** care, **eye** care, **dermatology**, and **general** healthcare under **one roof**, creating a dynamic and multi **healing** environment. By consolidating these essential services, the clinic reduces **logistical burdens** for families and fosters **seamless collaboration** among providers. Just as a kaleidoscope transforms light into vibrant patterns, this facility reshapes pediatric healthcare into an **accessible**, **holistic**, and **engaging** experience for children and their families.

## Design Statement

Reflecting the ever changing and vibrant nature of a kaleidoscope, this design creates a **playful**, **safe**, and **welcoming environment** that minimizes **stress** and encourages **exploration**. Research-based strategies such as **biophilic design**, **calming color palettes**, and **intuitive wayfinding** guide children through an interactive and engaging space. Like the shifting patterns of a kaleidoscope, the design adapts to different developmental stages with **sensory elements**, **interactive waiting areas**, and **age-appropriate spatial zoning**. Rooted in inclusive, human-centered design, the space integrates cultural storytelling, sustainable materials, and **diverse artistic expressions**, ensuring a **joyful** and **empowering** healthcare experience for all children.



# PROJECT GOALS AND QUESTIONS



How can healthcare spaces be designed to be intuitive, engaging, and stress-free for children and their families?



How can the environment balance professionalism, safety, and hygiene while maintaining a welcoming and calming atmosphere?



What design strategies support efficient navigation and a smooth multidisciplinary approach in healthcare settings?

# RESEARCH

USER EXPERIENCE  
ENVIRONMENTAL AND WELL-BEING  
SPATIAL DESIGN AND EFFICIENCY  
DESIGN PRINCIPLES

## User Experience

A well-designed pediatric healthcare setting prioritizes ease of **navigation**, a **welcoming environment**, and **child-friendly elements** to reduce stress for young patients and caregivers. Intuitive **wayfinding**, such as color-coded zones and interactive signage, enhances navigation, while **engaging waiting areas** with play zones or nature-inspired designs create a calming atmosphere. Balancing professional functionality with emotional comfort, **child-friendly colors, soft lighting, and biophilic design** help **reduce anxiety** and **improve cooperation**. Maintaining hygiene, efficiency, and seamless check-in procedures ensures **safety and accessibility**. By integrating these elements, pediatric offices enhance the **patient journey, fostering positive healthcare experiences and long-term comfort**

## ENVIRONMENTAL AND WELL BEING

The environment of a pediatric healthcare facility impacts children, families, and providers, with biophilic design elements like **natural lighting, indoor plants, and nature-inspired artwork** reducing stress and anxiety. **Soft colors** and child-friendly artwork create a **welcoming atmosphere**, making clinical spaces **less intimidating**. Additionally, **indoor air quality, noise levels, and ergonomic furniture** play a crucial role in well-being, as poor ventilation and high noise can cause discomfort and stress. Using **non-toxic materials, sound-absorbing surfaces, and proper ventilation** enhances comfort and safety. By integrating these design strategies, pediatric offices can **support** both **physical and mental** health, improving the overall patient experience.

## SPATIAL DESIGN AND EFFICIENCY

An efficient pediatric healthcare facility layout enhances **patient flow, staff performance, and overall user experience**. Intuitive wayfinding, logical zoning, and open layouts with **wide corridors** help **reduce stress** for children and caregivers while ensuring **smooth navigation**. Clearly **defined** spaces for **check-in, waiting, exams, and specialty care** improve functionality, allowing caregivers to focus on their child's well-being. From an operational standpoint, **centralized nurse stations, strategically placed exam rooms, and multi-use spaces** streamline **workflow** and maximize **efficiency**. By integrating evidence-based spatial design, pediatric offices can create a **patient-centered, stress-free, and highly functional environment** for all.



Engagement



Comfort



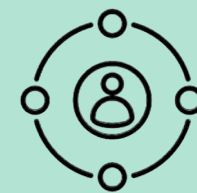
Efficiency



Calming



Positive Atmosphere



Seamless Experience

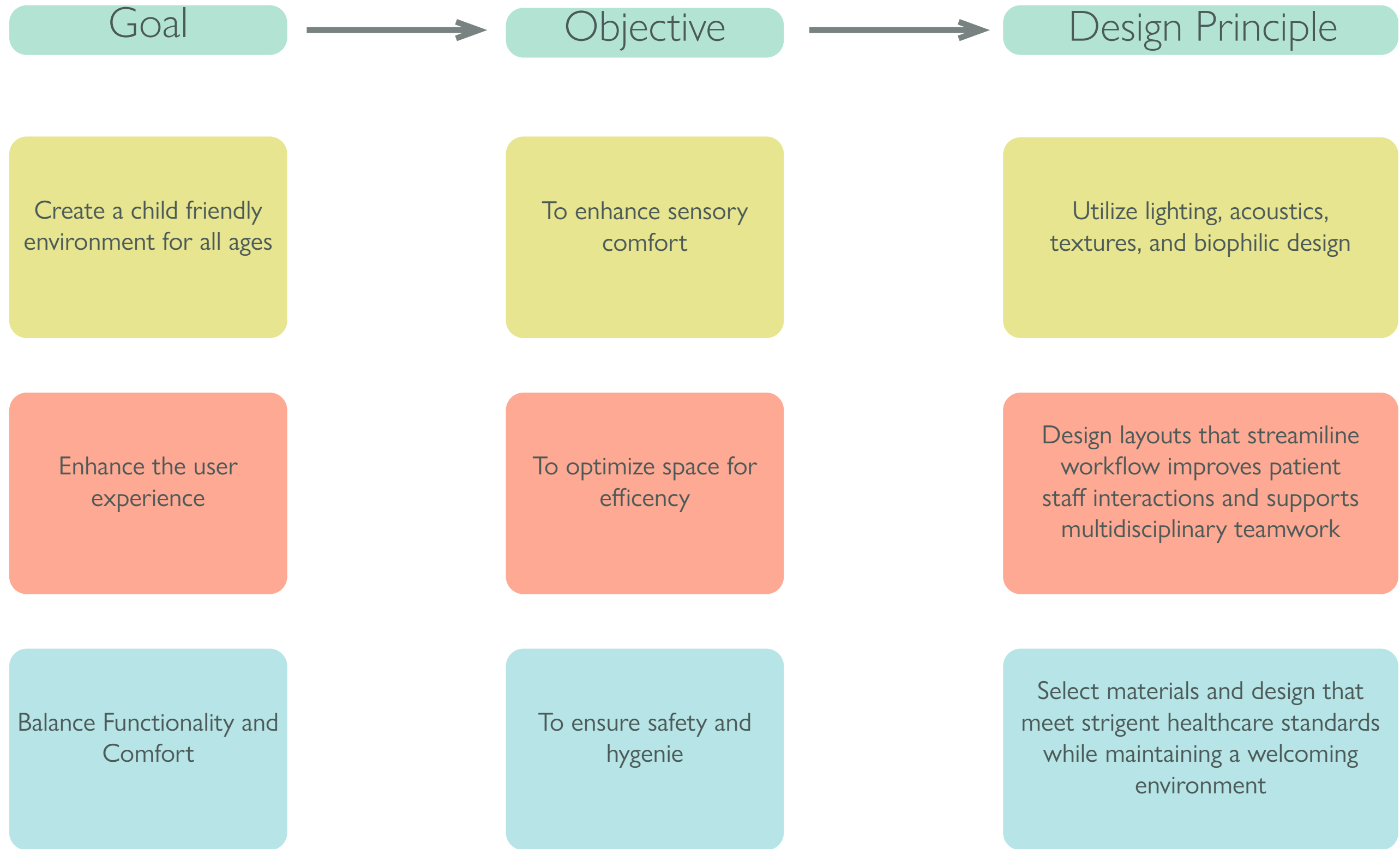


Stress-Free



Patient Centered

# DESIGN PRINCIPLES



# PRECEDENTS

HARVEY PEDIATRICS  
PEDIATRIC DENTISTRY CLINIC, ISABEL CADROY  
A WARM CLINIC  
KIDS PLAY

# PRECEDENT HARVEY PEDIATRICS

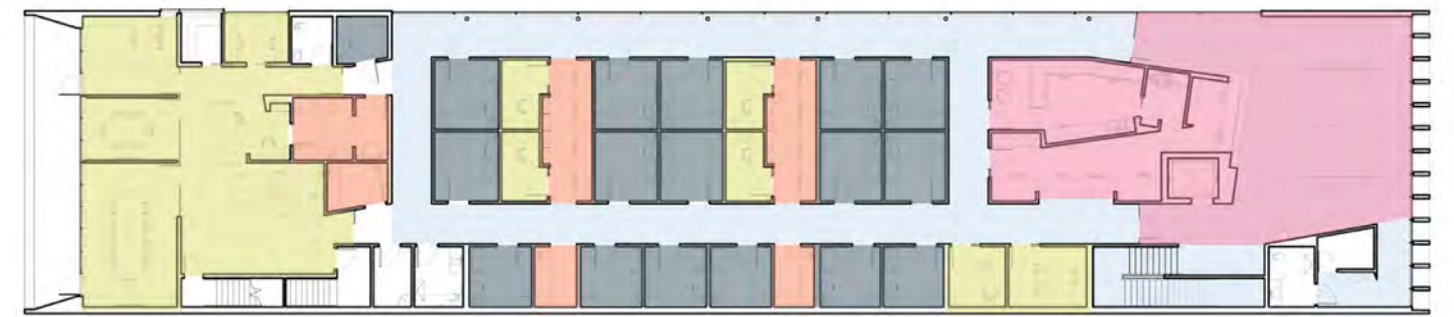
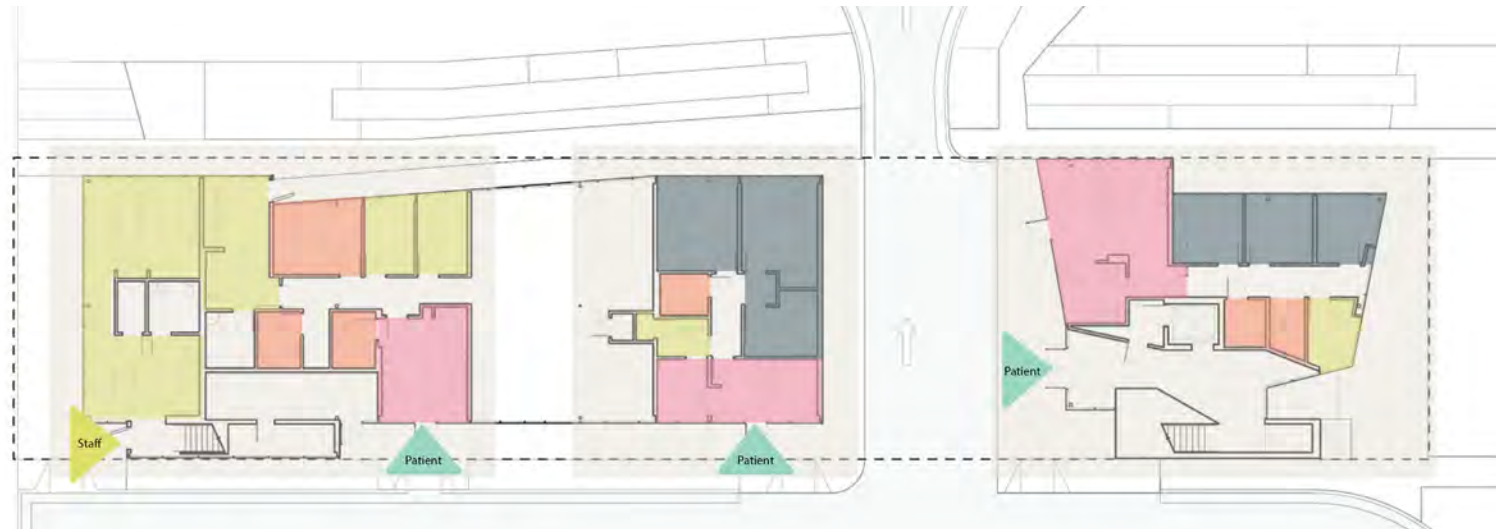
**Architects:** Marlon Blackwell Architects  
**Area:** 15,493sqft  
**Year:** 2016  
**Location:** Rogers, Arkansas

**Design Intent:**  
Shape and Form becomes a new inspiration for Pediatric design. This building was designed in mind for new patients in mind for the patients, staff, and doctors in mind by being identifiable, bold, and highly efficient while also being sophisticated for kids and adults

**Quantifications:**  
Pediatric Physical Therapy 18%  
Pediatric Optometrist 8%  
Harvey Pediatrics Well Clinic 9%  
Harvey Pediatrics Staff Support 25%  
Harvey Main Clinic 40%

Tapia, Daniel. "Harvey Pediatric Clinic / Marlon Blackwell Architect." ArchDaily, July 26, 2017. [https://www.archdaily.com/876514/harvey-pediatric-clinic-marlon-blackwell-architect?ad\\_source=search&ad\\_medium=projects\\_tab](https://www.archdaily.com/876514/harvey-pediatric-clinic-marlon-blackwell-architect?ad_source=search&ad_medium=projects_tab).

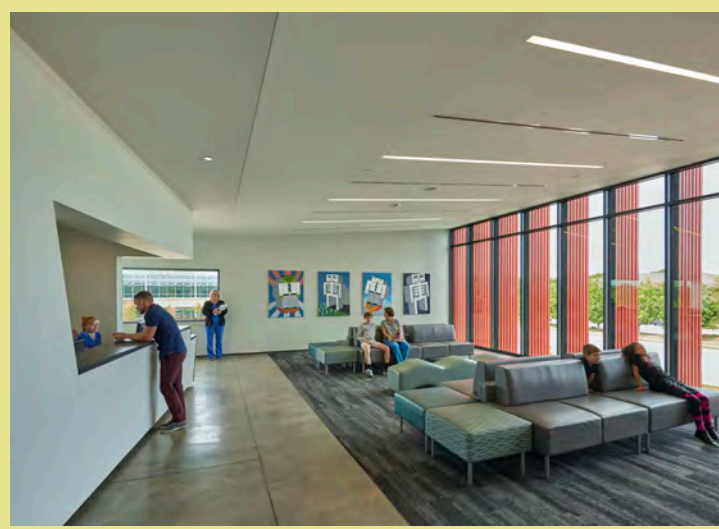
## Adjacencies



- STAFF
- NURSES STATIONS
- EXAM ROOMS
- WAITING ROOM

Harvey Pediatrics is showing how multiple specialty clinics can be put into one building. Each clinic has its own patient entrance and staff entrances. It also is showing the adjacencies of the nurses stations to the exam rooms. The nurses stations are split into two to break up the rows of exam rooms and to also help with traffic flow. The waiting rooms and staff rooms are located on opposite sides of each other to create a patient centered approach and as well give the staff privacy from the patients.

## Interior Images



# PRECEDENT PEDIATRIC DENTISTRY CLINIC, ISABEL CADROY

**Architects:** Font Arquitectura, Vitale

**Area:** 3,767 sqft

**Year:** 2021

**Location:** Castellon De la Plana, Spain

## Design Intent:

Represents the beginning of a new stage that consolidates its competitive advantage as a clinic dedicated to pediatric dentistry and orthodontics while being welcoming and friendly but without being too childish. The goal is to transform stress and fear into confidence and tranquility.

## Quantifications:

Exam Rooms 32%

Waiting Reception 27%

Kids Individual Rooms 17%

Family Room 9%

X-Ray room 5%

Staff Room 11%

Couleri, Agustina. "Pediatric Dentistry Clinic Isabel Cadroy / Vitale + Font Arquitectura." ArchDaily, December 10, 2021. [https://www.archdaily.com/973403/pediatric-dentistry-clinic-isabel-cadroy-vitale-plus-font-arquitectura?ad\\_source=search&ad\\_medium=projects\\_tab](https://www.archdaily.com/973403/pediatric-dentistry-clinic-isabel-cadroy-vitale-plus-font-arquitectura?ad_source=search&ad_medium=projects_tab).

## Threshold

Different styles of thresholds are created throughout the space to be engaging to the users. Each threshold has its own material this can also be used as a way-finding technique.



## Seating Elements



A variety of seating is located throughout the lobby spaces including private kids rooms where they can go and relax before their appointments.

## Design Elements

Ceiling elements are presented in the exam rooms to keep kids engaged while they are tilted back.

A natural green wall is featured through a large window in the exam room to help reduce fear and anxiety



# PRECEDENT A WARM CLINIC

Architects: RIGI Design

Area: 2,690 sqft

Year: 2015

Location: Tianjin China

## Design Intent:

Creating a warm clinic that feels more at home in the hope to remove anxiety and put the patient at ease. Natural light and warm materials create a less static approach to the clinic.

## Quantifications:

Entrance: 7%

Kids Area: 10%

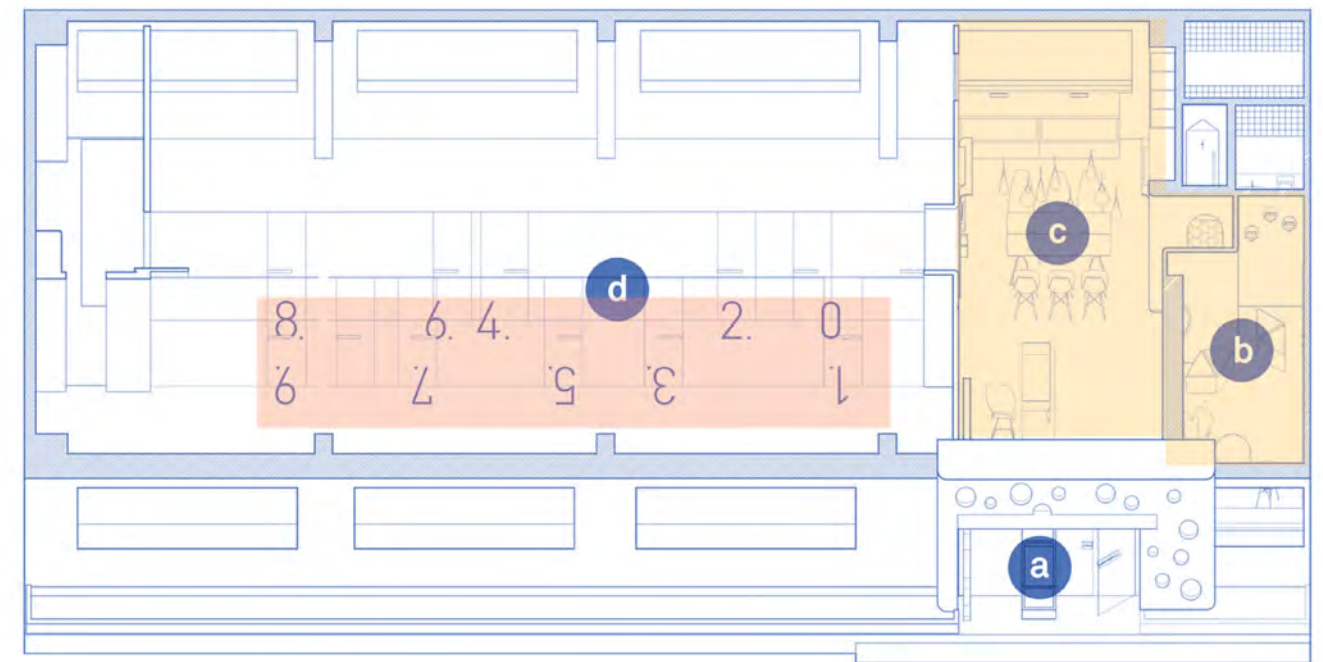
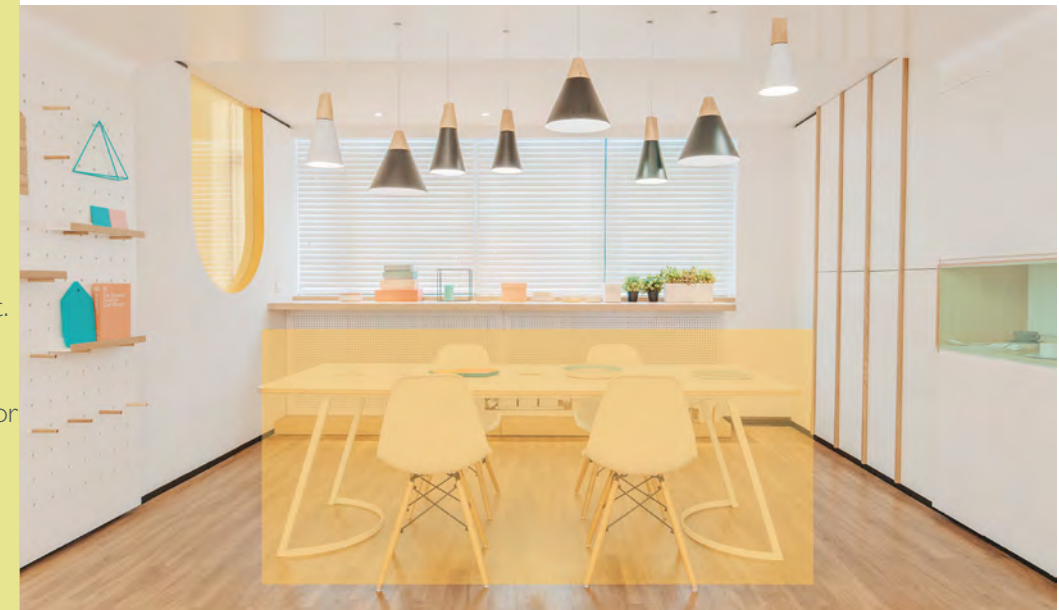
Waiting Area: 15%

Clinic 68%

Rojas, Cristobal. "A Warm Clinic / Rigi Design." ArchDaily, August 28, 2016. [https://www.archdaily.com/793964/a-warm-clinic-rigi-design?ad\\_medium=gallery](https://www.archdaily.com/793964/a-warm-clinic-rigi-design?ad_medium=gallery).

## Furniture Layout

The furniture layout and design of this waiting room is aimed to feel more at home. The space has a coffee bar, linear table for parents to sit and work at, pendant lighting, and other elements to feel like you are in your home setting creating a more welcoming environment. The kids have their own space where they can play with educational and engaging toys while waiting to go back for their exam.



## Way-finding

The way-finding throughout the space is mostly done on the floor creating a unique approach. As the exam doors are frosted glass they had to get creative of how the exam rooms would be labeled. The other purpose of the labels being on the floor is it is easier for kids to find their exam room and creates an educational experience for them.



# PRECEDENT Kids Play

Designer:: Made Go Design

## Design Intent:

The kids play area is designed to be a playful and welcoming environment through way-finding. Colorful scores align the floor throughout the space and lead you to different spaces. Each color is associated with a door and a wall feature that create a very easy way-finding technique. Throughout the space is also reading nooks for kids to go and relax when they don't want to play.

Cheese, Hey! "Made Go Design: Kids Play - Hey! Cheese." Behance. Accessed February 17, 2025. <https://www.behance.net/gallery/59842937/MADE-GO-DESIGN-KIDS-PLAY>.

## Way-finding

The way-finding technique is done through a use of color blocking that guides the user to each individual rooms while also being fun and playful for the environment.



## Furniture and materiality

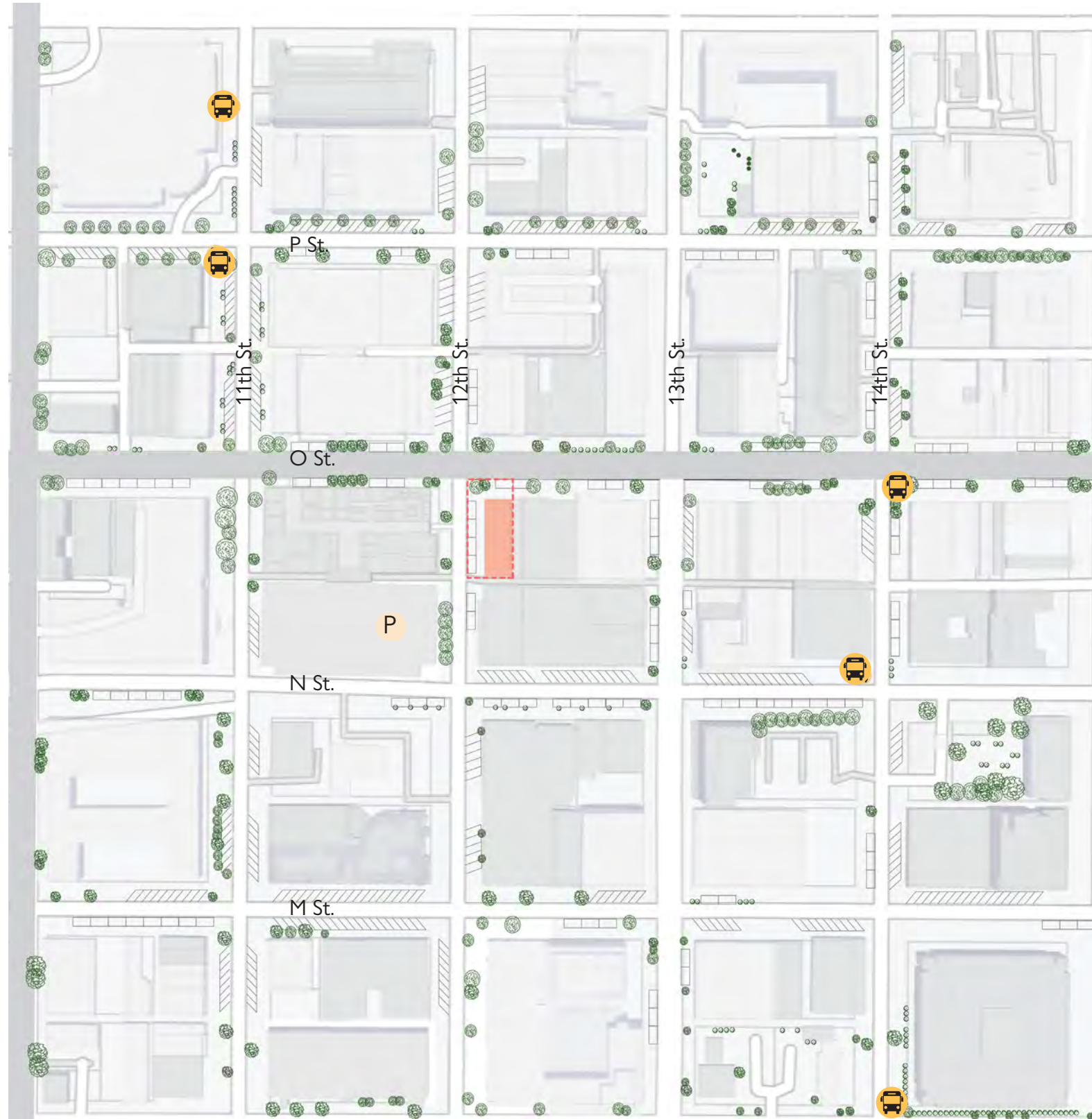
The materiality is very minimal as the way-finding technique speaks for the design. All of the furniture is made up of wood creating a simplistic and cohesive design.



# SITE AND BUILDING

SITE PLAN  
ADJACENCY MAP  
BUILDING ANALYSIS

# SITE PLAN



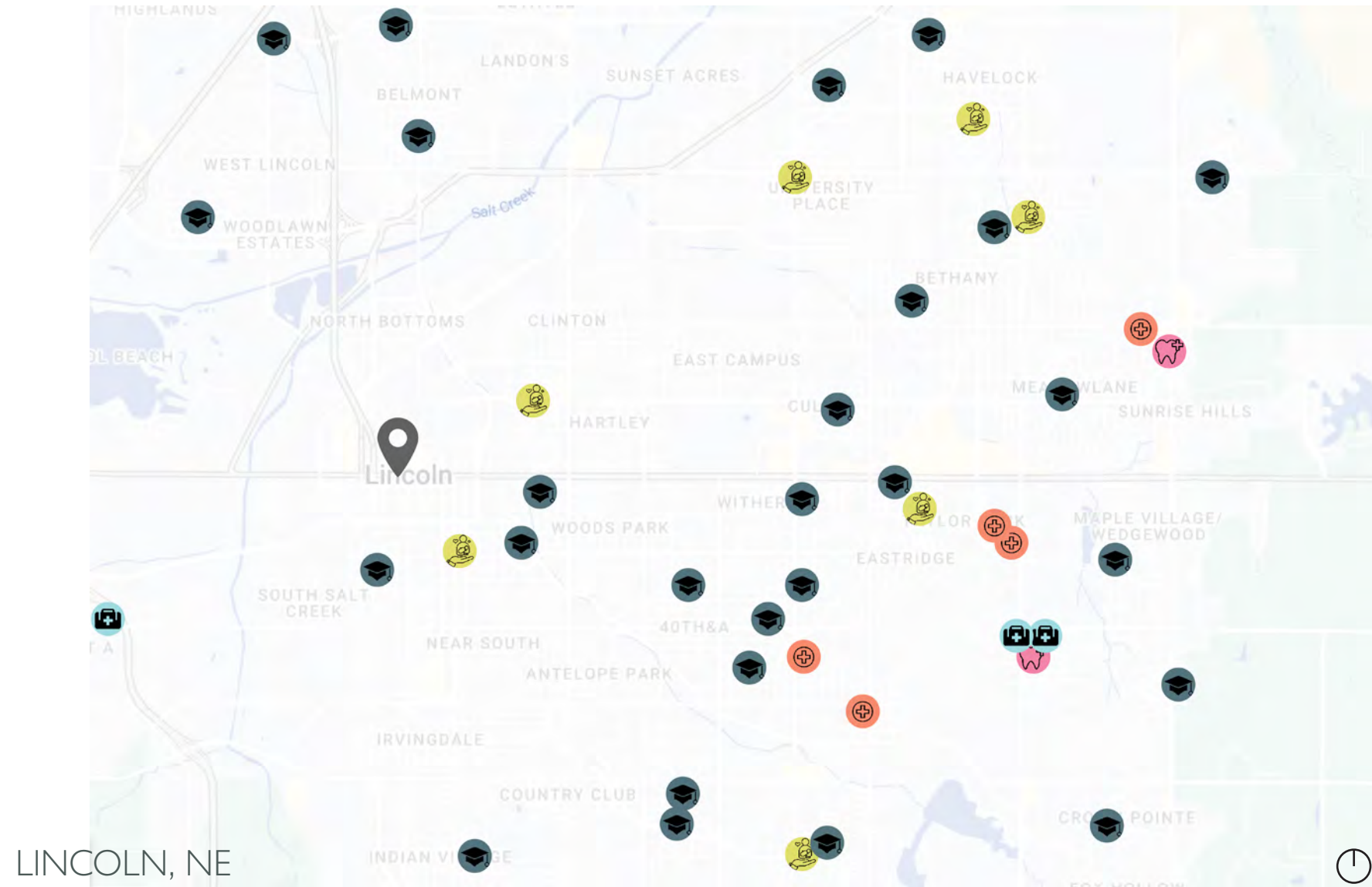
 Bus stops     Parking Garage     Site building



Address: 1201 O St. Lincoln, Nebraska

Square Footage: 20,100 SQFT

# SITE AND BUILDING ADJACENCY MAP



LINCOLN, NE



Pediatric Dentistry

Average Distance From Site: 6 miles



Pediatric Health Clinics

Average Distance From Site: 4.5 miles



Pediatric Specialty Clinics

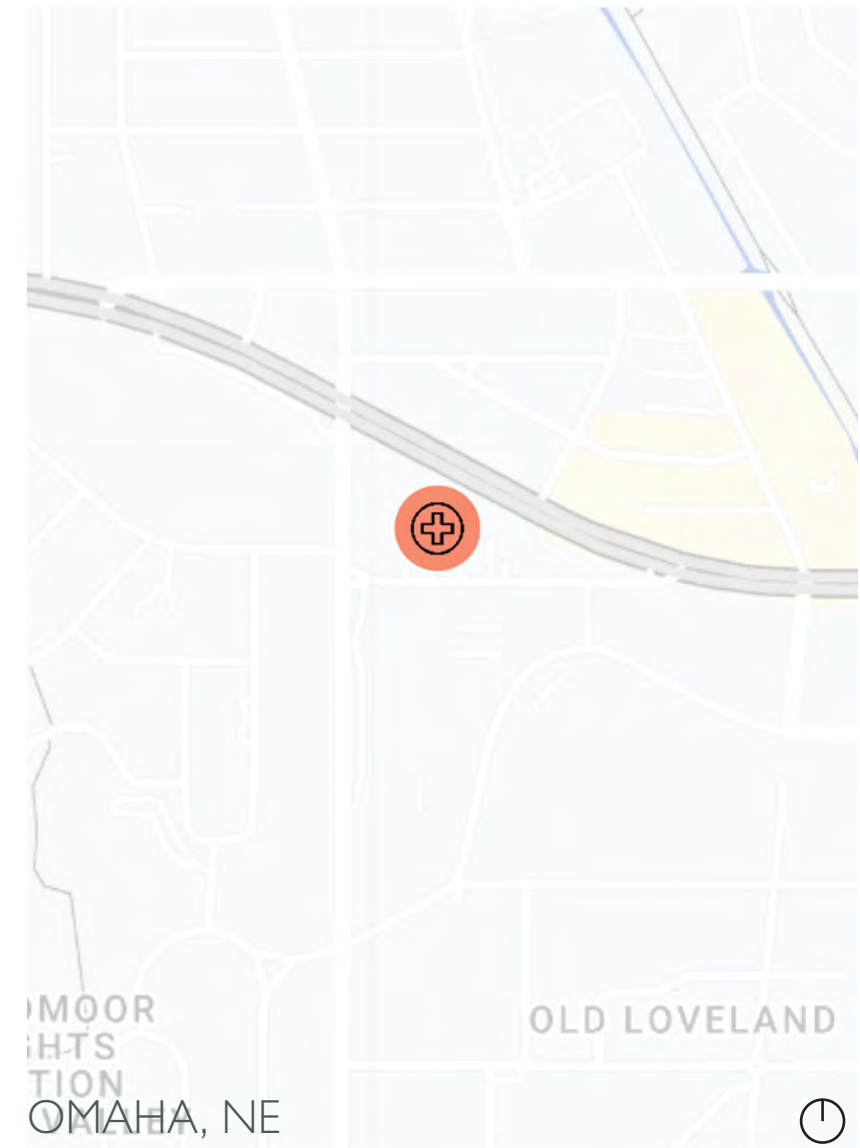
Average Distance From Site: 4.5 miles



K-12 Schools



Daycare



OMAHA, NE



Children's Hospital and Medical Center

Travel distance from Site: 54miles

# BUILDING ANALYSIS

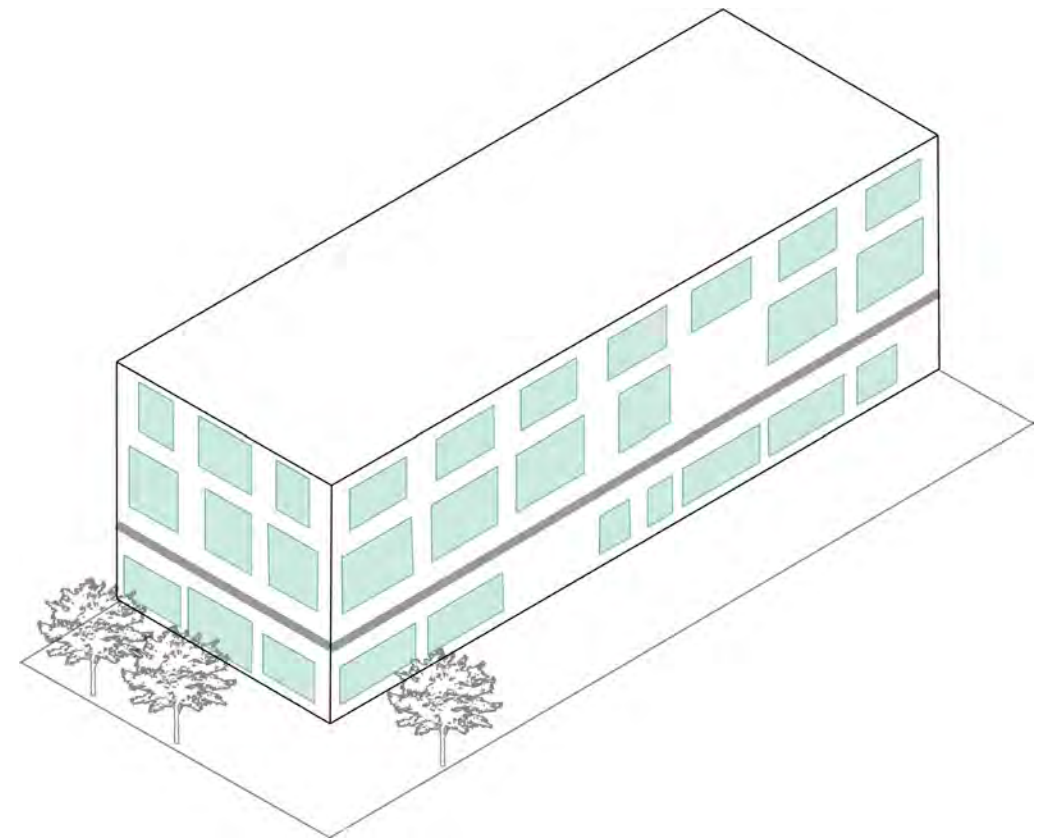
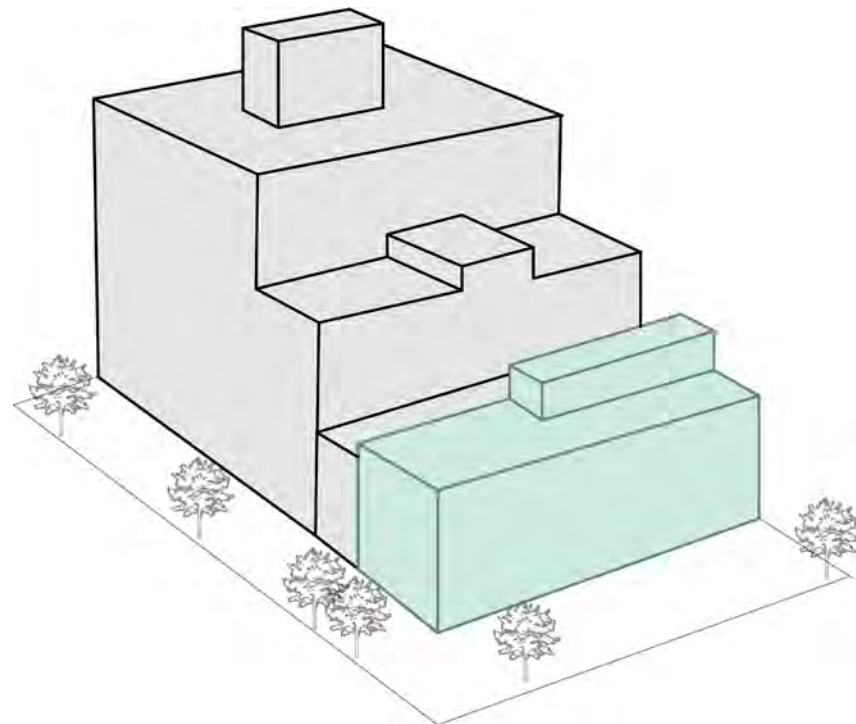
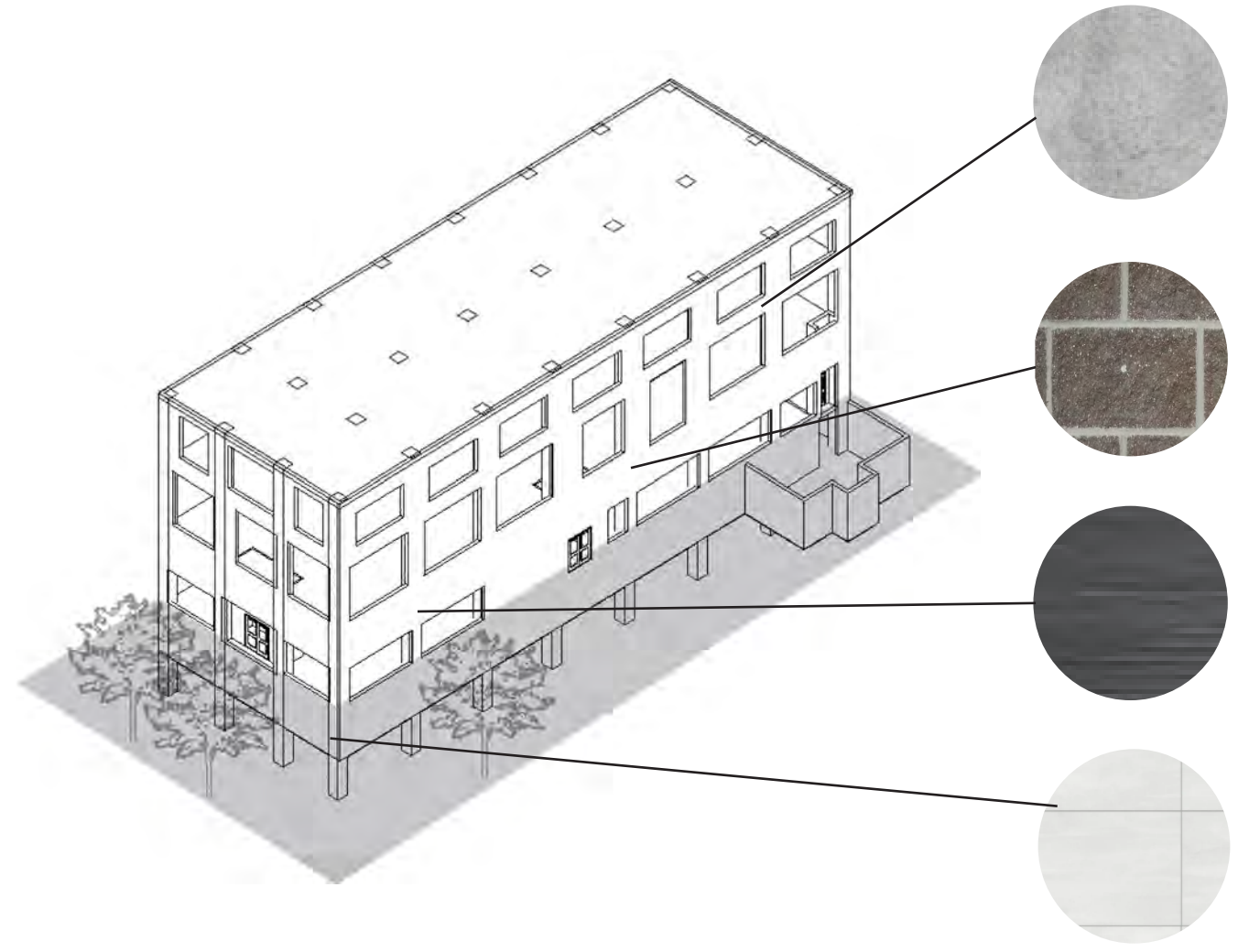
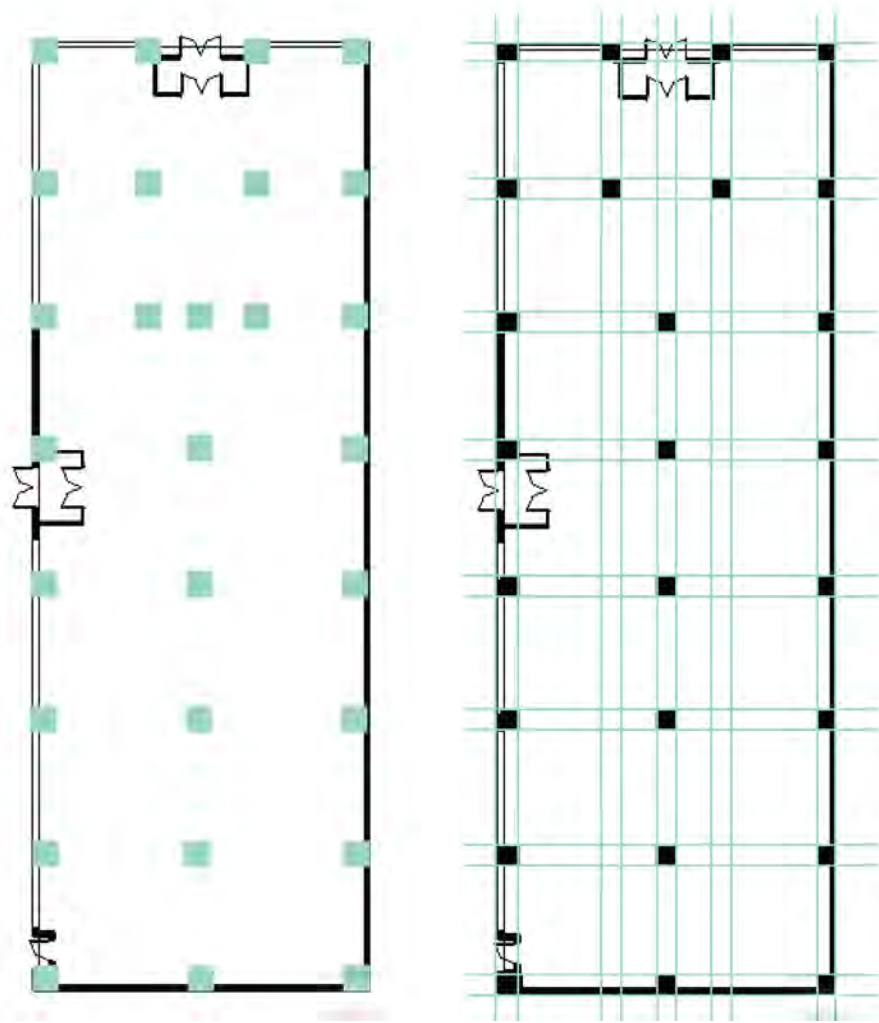
**Building Space:** This multilevel space is a total of 20,100 sqft. Levels 1-3 are 6,700 sqft and the lower level is 7,250 sqft.

**Existing Grid:** The organized grid system is placed in 20 feet increments in length and width creating a organized grid structure. Having an organized grid system has allowed many tenant to occupy this space and make it their own.

**Existing Columns:** The columns are places in a grid system that is 20 feet in length and width. These Columns are exposed throughout all of the floors which allows for the space to be more flexible.

**Apertures:** The existing apertures of the are located on the North and West walls of the building that expand across all three floors.

**Materials:** The existing materials of the Magee building shows its rich historical culture in the heart of downtown Lincoln. Its existing materials consist of Concrete, Concrete Masonry Units, Brick, Metal, and Tile.



# PROGRAMMING

SPATIAL PROGRAM DIAGRAMS  
BUBBLE DIAGRAMS  
KALEIDOSCOPE BENEFITS  
DESIGN INSPIRATION

# PROGRAMMING STATISTICS



86.5%

Of children go in for a wellness checkup at least once a year



86.9%

Of children age 2-19 visit the Dentist at least once a year



35.3%

Of children go in for an eye exam at least once a year



30%

Of children visit the dermatologist at least once a year

## COLOR THEORY



## BLUE

- Relaxing, serene, and encourages feelings of calmness
- Light shades of blue can evoke a sense of peace and serenity



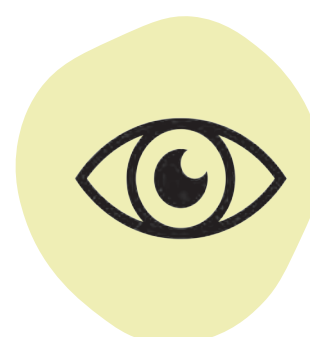
## ORANGE

- Enthusiastic and energetic
- Bright shades like orange can add a touch of energy and personality to the space.



## DARK BLUE

- Relaxing, serene, and encourages feelings of calmness
- Darker blues can be used for a more sophisticated look



## GREEN

- Refreshing, peaceful, and believed to reduce anxiety
- Muted greens can create a calming and natural feel

## PROGRAM DIAGRAM



## Private

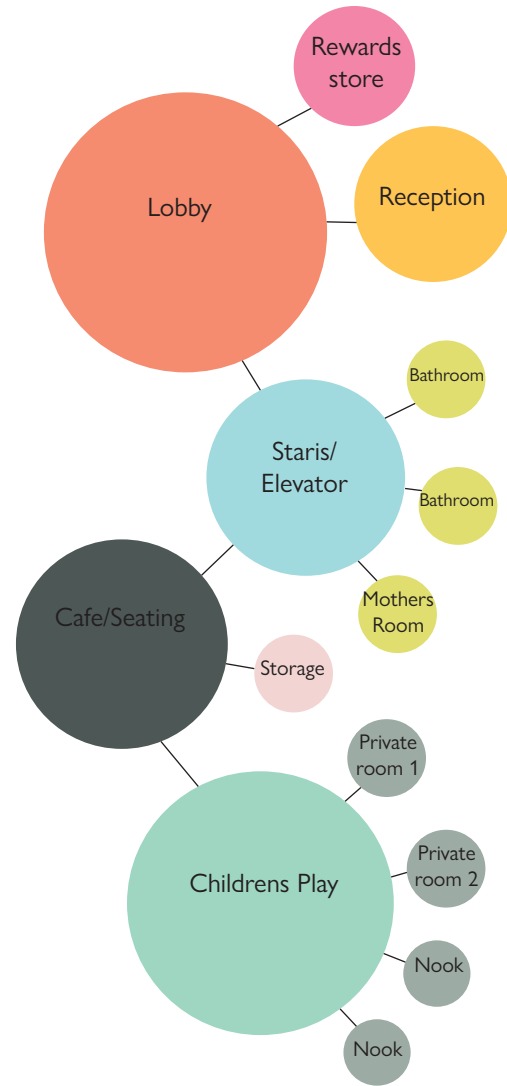
Exam rooms, Bathrooms, Staff room, Nurses stations, Storage, Sanitation

## Public

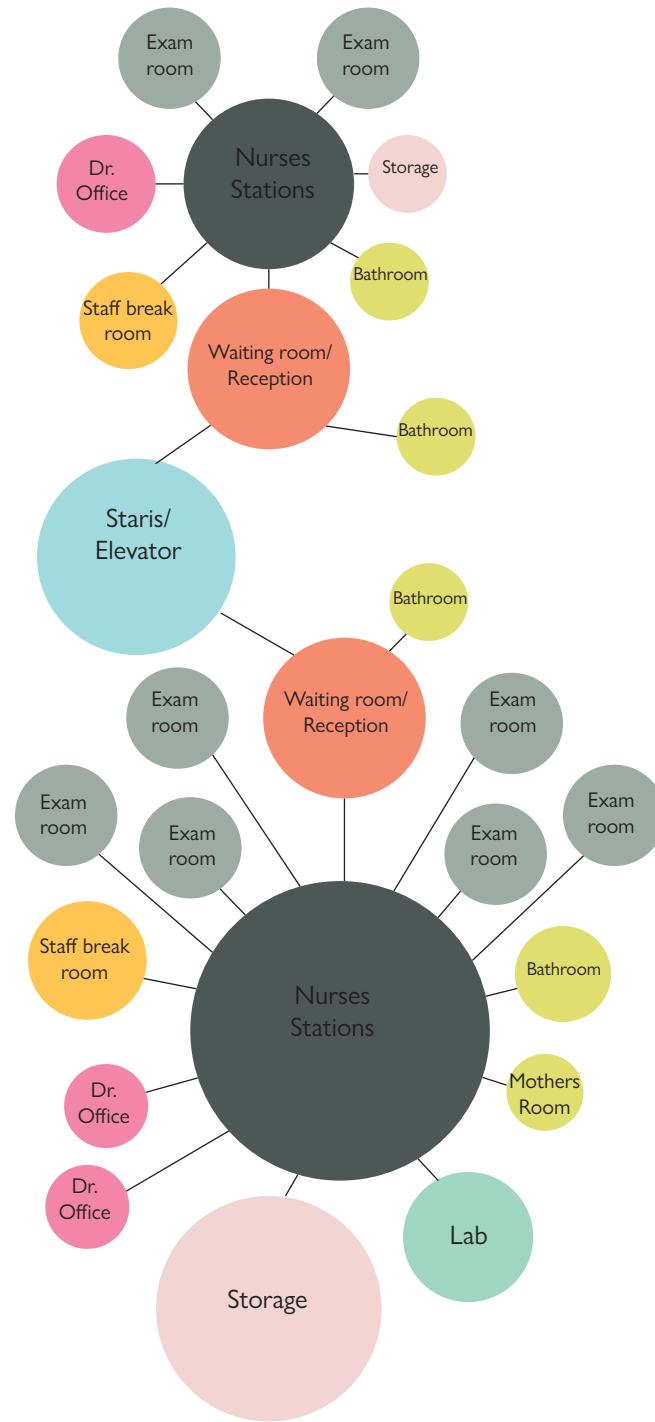
Waiting rooms, Play area, Cafe, Reception desk, Rewards store

# BUBBLE DIAGRAMS

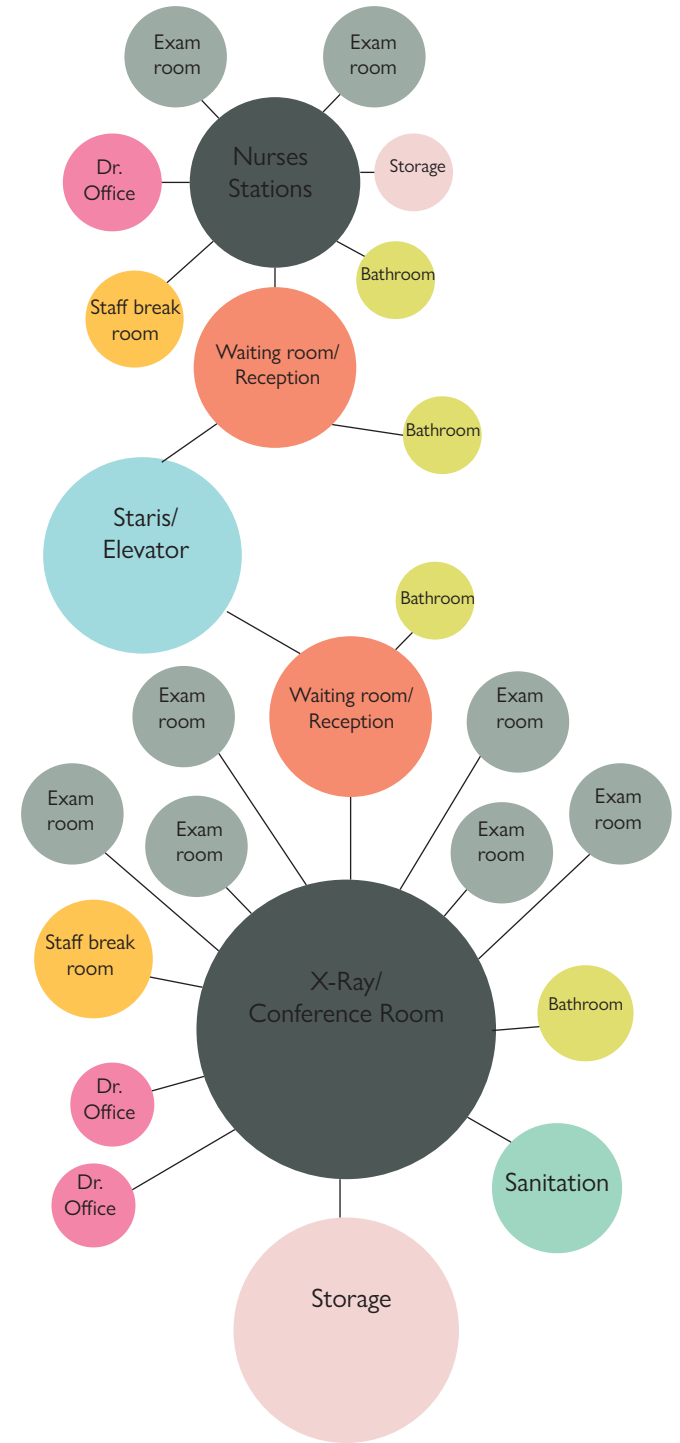
Level 1



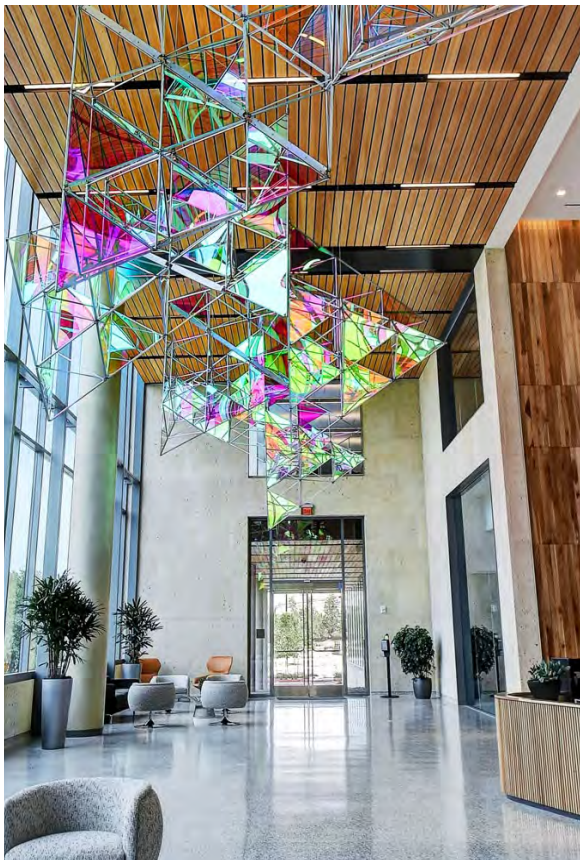
Level 2



Level 3



PROGRAMMING  
DESIGN INSPIRATION



# HALEIDOSCOPE BENEFITS

## THE BENEFITS...

1. ENGAGING AND COMFORTING
2. POSITIVE DISTRACTION
3. CREATES INSPIRATION AND CREATIVITY
4. AGE APPROPRIATE DESIGN
5. INCLUSIVE
6. CREATES A BRANDING
7. PSYCHOLOGICAL BENEFITS
8. SUPPORTS BOTH THE CHILDREN AND CAREGIVERS

# USERS

PERSONAS

USER JOURNEY MAP

RITUAL JOURNEY MAP

CULTURE MAPPING



**Name:** Oliver

**Age:** 6

**Role:** Pediatric Patient

**Hometown:** Lincoln, NE

#### Behavior and Habits:

- Gets anxious in medical environments
- Loves to interact in play areas and thrives in colorful environments
- Responds to visual storytelling

#### Frustrations:

- Fear of unfamiliar medical offices
- Waiting increases, him anxiety
- Uncomfortable environments that feel clinical cause stress and fear.

#### Needs and Goals:

- Engaging environments with distractions to reduce fear
- Sensory-friendly spaces with playful features
- A quick and easy check-in process to lessen the waiting room stress



**Name:** Emily

**Age:** 34

**Role:** Parent and caregiver

**Hometown:** Lincoln, NE

#### Behavior and Habits:

- Prioritizes her child's comfort and well-being
- Prefers easy access to facility information and clear communication from staff
- Often brings her whole family to appointments

#### Frustrations:

- Difficulty finding her way around medical facilities
- Her primary children's doctors are located all around Lincoln
- Waiting areas lack comfortable furniture and limited distraction options

#### Needs and Goals:

- A family friendly waiting area that has comfortable seating and play area.
- Way-finding signage that is clear for children and adults
- Access to Private room for nursing or phone calls
- Having all her doctors in one Environment



**Name:** Dr. Ava

**Age:** 42

**Role:** Pediatric Ophthalmologist

**Hometown:** Dallas, TX

#### Behavior and Habits:

- Works with multiple patients which requires a well organized space
- Engages with young patients by being interactive during the Exams
- Needs quick access to medical tools and records

#### Frustrations:

- Examination rooms are too intimidating and sterile for Pediatrics
- Staff areas lack privacy and relaxation space
- Noise disruptions from the waiting area affects the focus of patients during the exam

#### Needs and Goals:

- A child friendly exam room that is welcoming
- Reducing noise disturbances
- Ergonomic Workspaces for all staff



**Name:** Sophia

**Age:** 28

**Role:** Pediatric Nurse

**Hometown:** Lincoln, NE

#### Behavior and Habits:

- Works long shifts and is on her feet most of the day
- Prioritizes patient comfort and gives emotional support
- Is often moving from patient rooms, treatment rooms, and supply stations

#### Frustrations:

- Congestion in hallways and workspaces due to the lack of patient flow
- Uncomfortable staff break rooms
- Inconsistent temperature and lighting control

#### Needs and Goals:

- A floor plan that is efficient with traveling from room to room
- A staff lounge that is comfortable and has relaxation options
- Adjustable lighting and climate control to improve the well-being of everybody



# TECHNICAL DRAWINGS



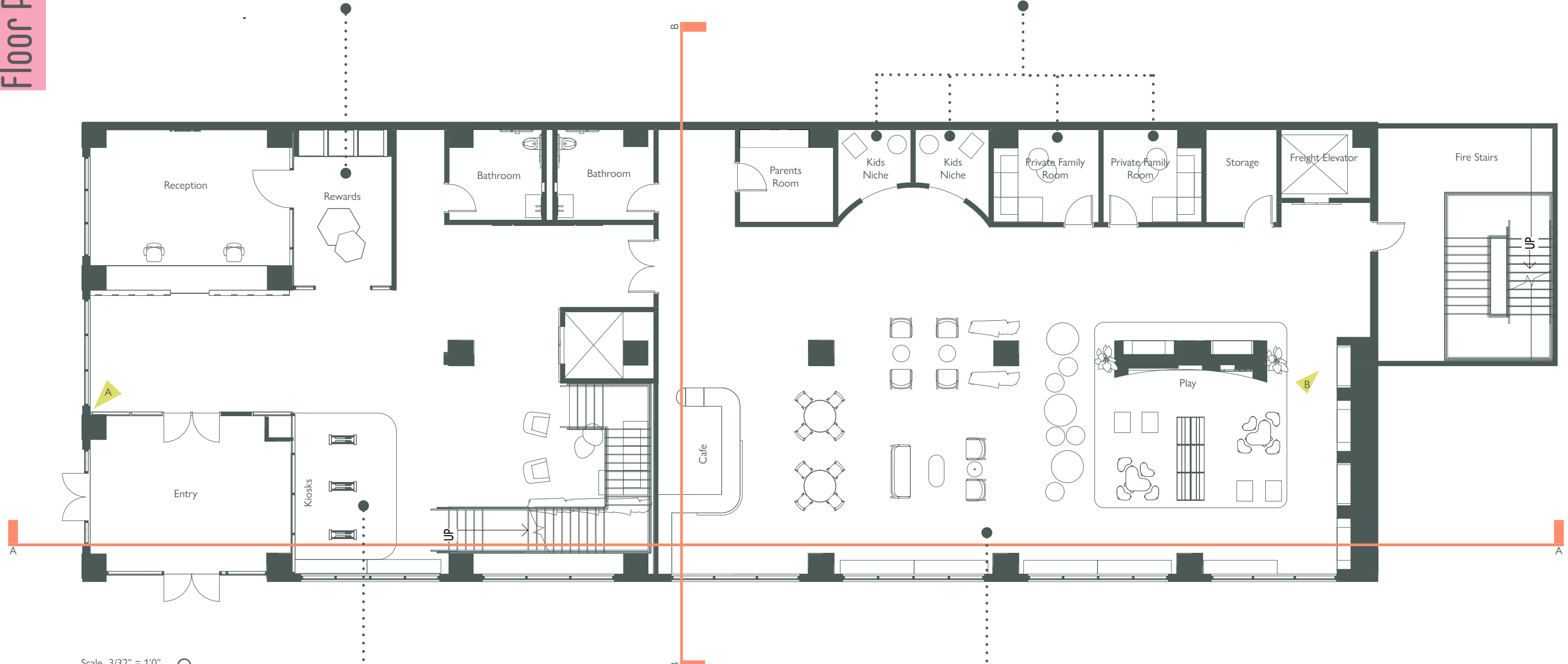
**Positive Atmosphere**


Kids rewards store to promote a positive environment



**Comforting**

Kids reading nooks and private family rooms



Scale 3/32" = 1'0" 



**Efficiency**

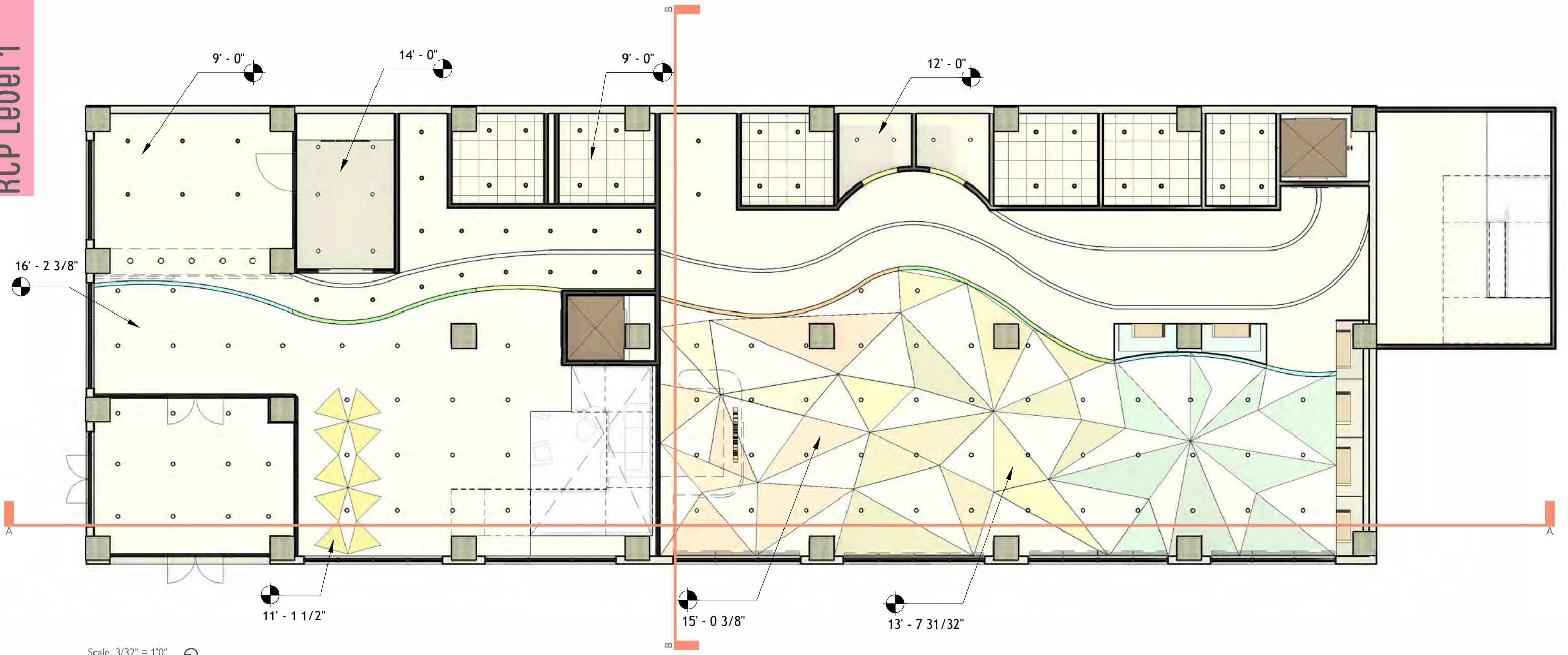
Check in and Wayfinding Kiosks



**Engagement**

Cafe with an arrangement of furniture and kids play zone

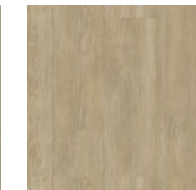
# RCP Level 1



Scale 3/32" = 1'0" ⊕

<p>Peggy Pendant by Vistosi Lamp Source: LED</p>	<p>Armstrong Acoustibuilt Ceiling and Wall Panels 7/8" tapered edges on 4 sides Acousitics: .80 NRC/ 46 CAC</p>	<p>Armstrong Ceiling Soundscapes Shape: Triangle</p>	<p>3 From Glass Guacomole</p>
<p>EVO 4" Round Downlight Lamp Source: LED Downlight</p>	<p>Armstrong ULTIMA Lay-in and tegular Size: 24"x24" Beveled Tegular 9/16 Acoustics: .75 NRC/35 CAC/ 170 AC</p>	<p>3 From Glass Sunstone</p>	<p>3 From Glass Swan Dive</p>

Entry Perspective



PVC Free Resilient Flooring  
Brand: Shaw Contract  
Color: Value



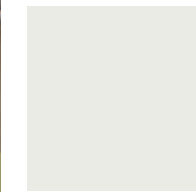
High Pressure Laminate  
Brand: Wilsonart  
Color: Granville Cherry



Solid Surface  
Brand: Corian  
Color: Linen



Wood Wallcovering  
Brand: Koroseal  
Style: Roll With it  
Color: Almond



Neutral Paint  
Brand: Sherwin-Williams  
Color: Dashing



Paint  
Brand: Sherwin-Williams  
Color: Primavera



Paint  
Brand: Sherwin-Williams  
Color: Swimming



Steelcase Amia Ergonomic task chair with adjustable arms

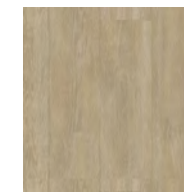


West Elm Work table occasional lily pad nesting

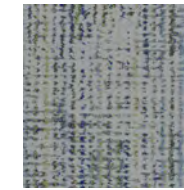


West Elm Seating Helathcare Mesa Sectional Lounge

Play & Cafe Perspective



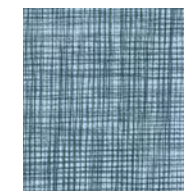
PVC Free Resilient Flooring  
Brand: Shaw Contract  
Color: Value



Carpet Tile  
Brand: Shaw Contract  
Collection: Agnes Tile  
Color: nowhere



Wood Wallcovering  
Brand: Koroseal  
Style: Roll With it  
Color: Almond



Upholstery  
Brand: Designtex  
Style: Limn  
Color: Hosta



Upholstery  
Brand: Designtex  
Style: Limn  
Color: Boulder



Upholstery  
Brand: Designtex  
Style: Wend  
Color: Travertine



Upholstery  
Brand: Designtex  
Collection: Sketch  
Color: Capri



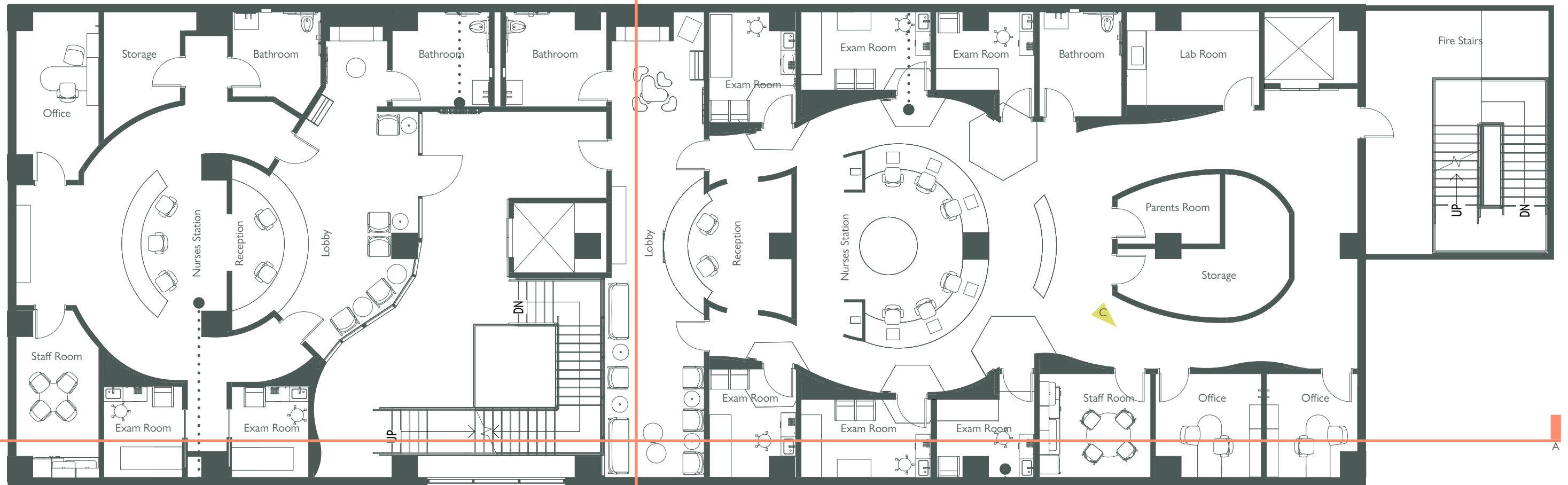
Coalesse AM seating Sofa  
Circa Round Ottoman




Spec Furniture Bean Stool  
and Bean Table



SmithSystem AMSeating  
Education Flowform Soft  
Rocker



Scale 3/32" = 10" 



### Seamless Experience

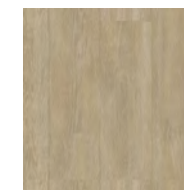
Colors and Shapes define the floor to help with wayfinding to the exam rooms as well as wayfinding on the walls



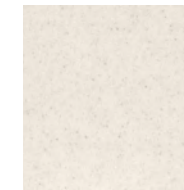
### Patient Centered

Centralized nurses station and strategically placed exam rooms

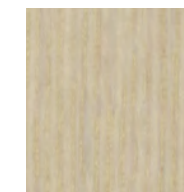
Nurses Station Perspective



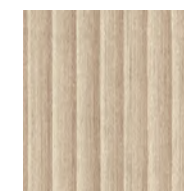
PVC Free Resilient Flooring  
Brand: Shaw Contract  
Color: Value



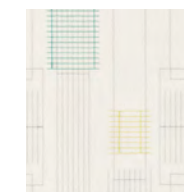
Solid Surface  
Brand: Corian  
Color: Linen



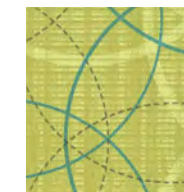
High Pressure Laminate  
Brand: Wilsonart  
Color: Granville Cherry



Wood Wallcovering  
Brand: Koroseal  
Style: Roll With it  
Color: Almond



Wallcovering  
Brand: Carnegie  
Style: Xorel Satellite Embroider  
Color: Number 2



Upholstery  
Brand: Designtex  
Style: Crosswind  
Color: Arbor



Paint  
Brand: Sherwin-Williams  
Color: Slate Tile



Steelcase Amia Ergonomic task chair with adjustable arms

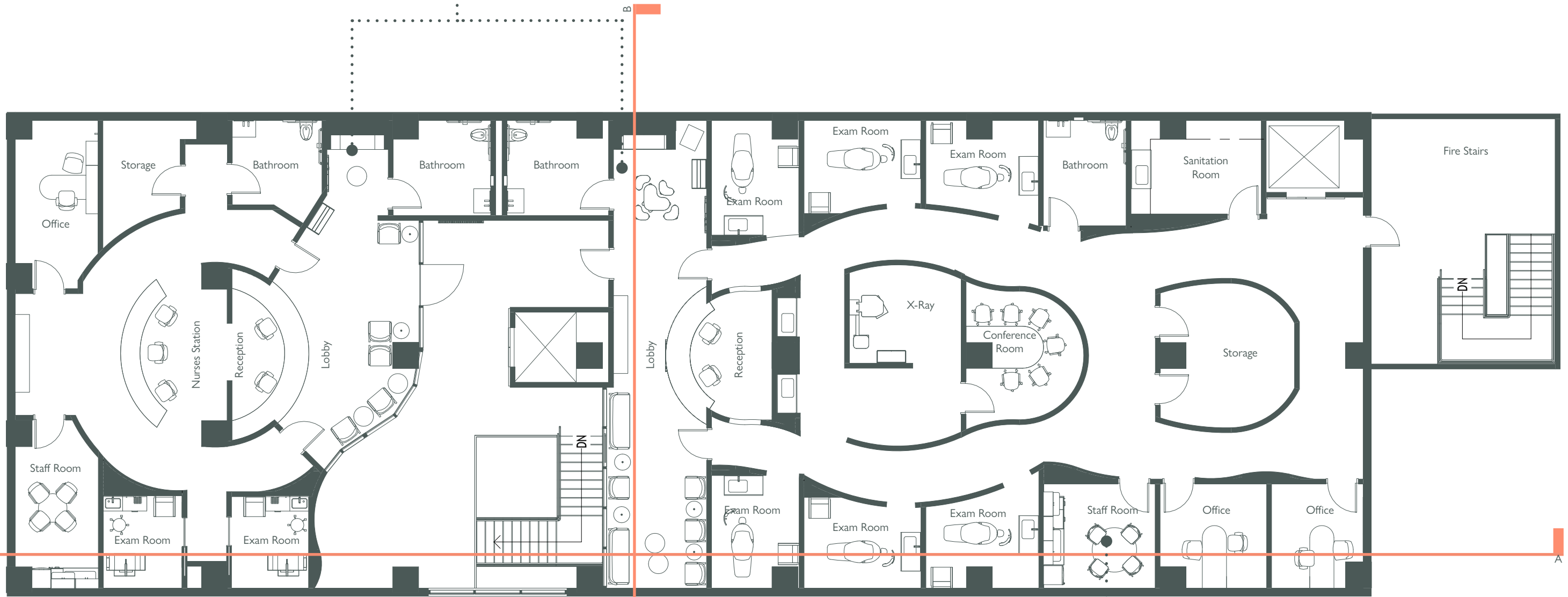



Peggy Pendant by Vistosi  
Lamp Source: LED



**Comfort**

Kids play area in every clinic with a reading niche and sensory board



Scale 3/32" = 1'0" 



**Efficiency**

Staff have a staff break room in every clinic to help with time efficiency.

Section B



Section Perspective B Scale  $3/32'' = 1'0''$

## Family Health



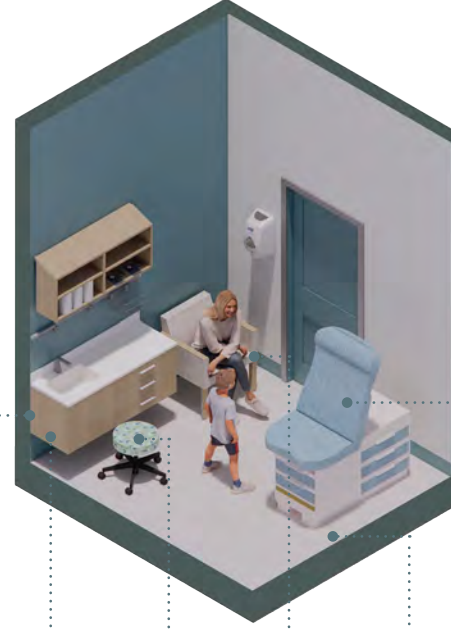
- Formica Laminate Ashwood Beige
- Corian Solid Surface Linen
- Designtex Sketch Upholstery Capri
- Shaw Contract Innate Sheet Natural
- Designtex Linn Upholstery Lemongrass
- Designtex Linn Upholstery Wheat

## Dental

- Shaw Contract Innate Sheet Natural
- Designtex Linn Upholstery Wheat
- Designtex Linn Upholstery Grapefruit
- Designtex Sketch Upholstery Spice
- Corian Solid Surface Linen
- Formica Laminate Ashwood Beige



## Dermatology



- Formica Laminate Ashwood Beige
- Corian Solid Surface Linen
- Designtex Sketch Upholstery Capri
- Designtex Linn Upholstery Lemongrass
- Shaw Contract Innate Sheet Natural
- Designtex Linn Upholstery Hosta

## Ophthalmology

- Formica Laminate Ashwood Beige
- Corian Solid Surface Linen
- Designtex Crosswind Upholstery Arbor
- Designtex Linn Upholstery Wheat
- Designtex Linn Upholstery Lemongrass
- Shaw Contract Innate Sheet Natural

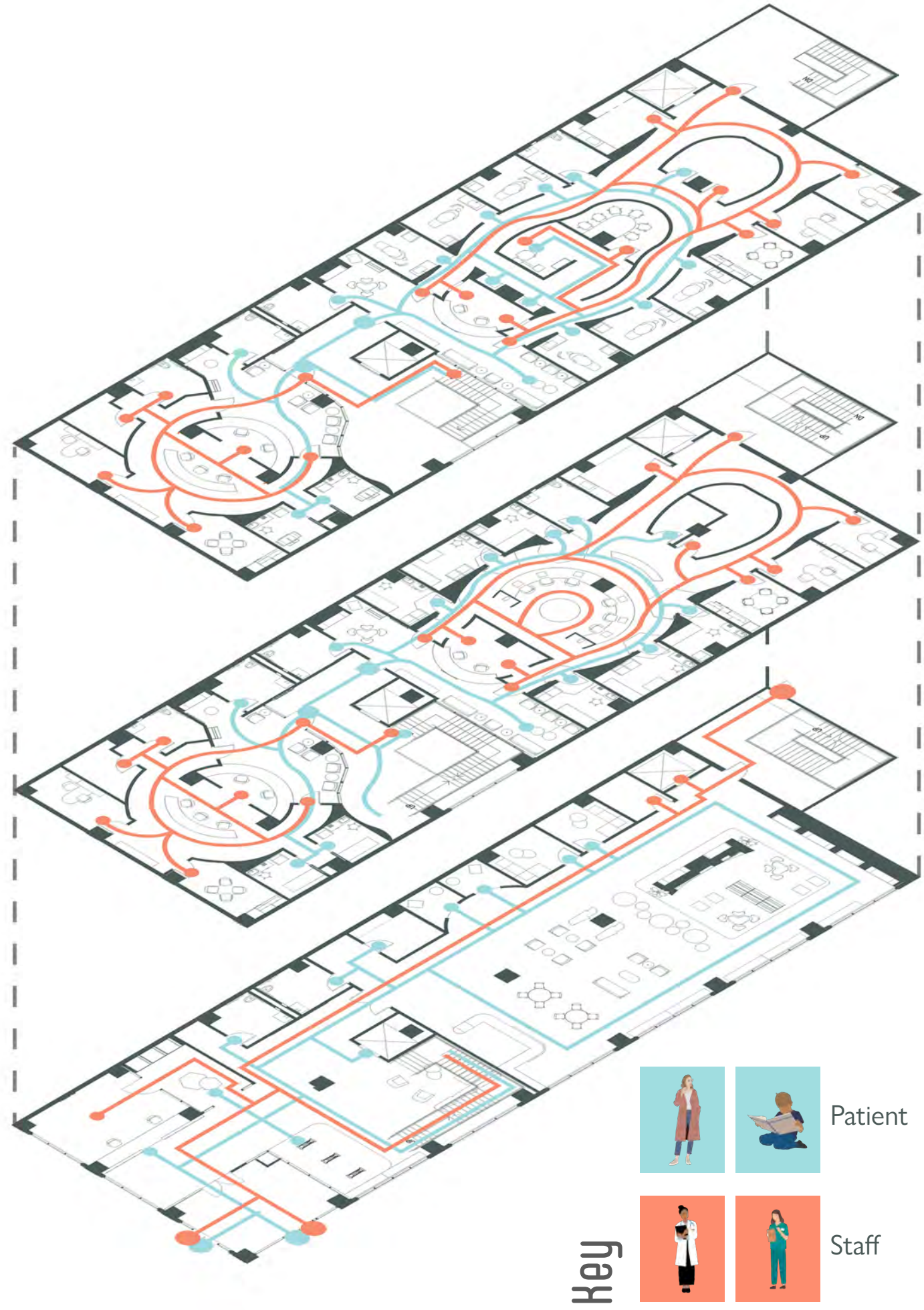


Section A



Section Perspective A Scale  $3/32'' = 1'0''$

# Circulation Diagram



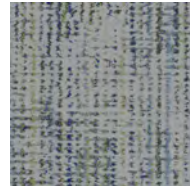


# MATERIALS

# MATERIALS



PVC Free Resilient Flooring  
Brand: Shaw Contract  
Color: Value



Carpet Tile  
Brand: Shaw Contract  
Collection: Agnes Tile  
Color: nowhere



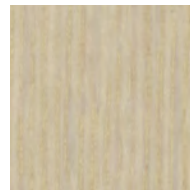
Carpet Tile  
Brand: Nora by Interface  
Collection: Noraplan Sentica  
Color: Aloe



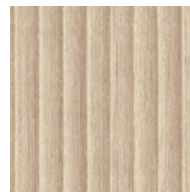
Carpet Tile  
Brand: Shaw Contract  
Collection: Innate Sheet  
Color: Natural



Solid Surface  
Brand: Corian  
Color: Linen



High Pressure Laminate  
Brand: Wilsonart  
Color: Granville Cherry



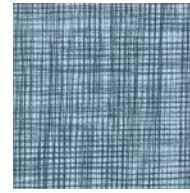
Wood Wallcovering  
Brand: Koroseal  
Style: Roll With it  
Color: Almond



Wallcovering  
Brand: Carnegie  
Style: Xorel Satellite Embroider  
Color: Number 2



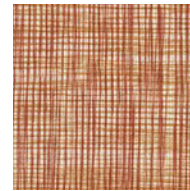
Wallcovering  
Brand: Carnegie  
Style: Xorel Satellite Embroider  
Color: Number 3



Upholstery  
Brand: Designtex  
Style: Limn  
Color: Hosta



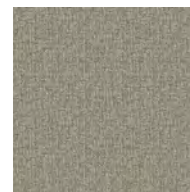
Upholstery  
Brand: Designtex  
Style: Limn  
Color: Lemongrass



Upholstery  
Brand: Designtex  
Style: Limn  
Color: Mango



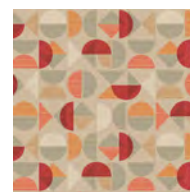
Upholstery  
Brand: Designtex  
Style: Limn  
Color: Boulder



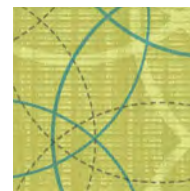
Upholstery  
Brand: Designtex  
Style: Wend  
Color: Travertine



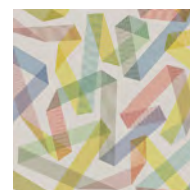
Upholstery  
Brand: Designtex  
Collection: Sketch  
Color: Capri



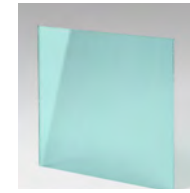
Upholstery  
Brand: Designtex  
Style: Sketch  
Color: Spice



Upholstery  
Brand: Designtex  
Style: Crosswind  
Color: Arbor



Upholstery  
Brand: Designtex  
Style: Ribbon  
Color: Pale



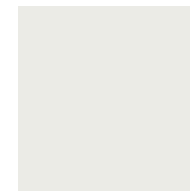
Laminated Glass  
Brand: 3 Form  
Color: Swan Dive



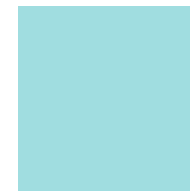
Laminated Glass  
Brand: 3 Form  
Color: Guacamole



Laminated Glass  
Brand: 3 Form  
Color: Sunstone



Neutral Paint  
Brand: Sherwin-Williams  
Color: Dashing



Paint  
Brand: Sherwin-Williams  
Color: Swimming



Paint  
Brand: Sherwin-Williams  
Color: Aqueduct



Paint  
Brand: Sherwin-Williams  
Color: Primavera



Paint  
Brand: Sherwin-Williams  
Color: Ravishing Coral



Paint  
Brand: Sherwin-Williams  
Color: Slate Tile



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**Thank You!**