



# *FORCE OF NATURE:*

ENCOURAGING THERAPEUTIC DESIGN AND HEALING THROUGH SOCIAL,  
SENSORY AND SEASONAL PLANNING FOR THE STANFORD BROADWAY  
MEDICAL CENTER

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# OVERVIEW

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# INTRODUCTION

- MY SARCOMA STORY
  - *JUNE 2015 : DIAGNOSIS*
  - *APRIL 29, 2016 :  
REMISSION\**



# THESIS STATEMENT

- Utilize evidence based landscape design to positively impact healing through social, sensory and seasonal planning for the Stanford Broadway Medical Center.
- “FIRST, DO NO HARM”

# IMPORTANCE

- HEALTH & PRODUCTIVITY
- TIME IS MONEY
  - MEDICAL DEBT & BIG PHARMA

# HISTORICAL CONTEXT

HERBAL MEDICINE

MID 1800s : IMPORTANCE OF HAND WASHING

TURN OF THE CENTURY : VACCINATION & ANTIBIOTIC DISCOVERIES

1940s : CHARLES F. NEERGAARD

FUTURE: BALANCE OF OLD & NEW





# ROGER ULRICH

HEALTHCARE ARCHITECT

- In 1984, Roger Ulrich had one clear outcome: *Patients in hospital rooms with windows improved at a faster rate and in greater percentage than did patients in windowless rooms.*
- **SO... WHY HAS MODERN HOSPITAL DESIGN NOT REINTEGRATED NATURE'S HEALING PROCESS?**



# HIGH WELLBEING





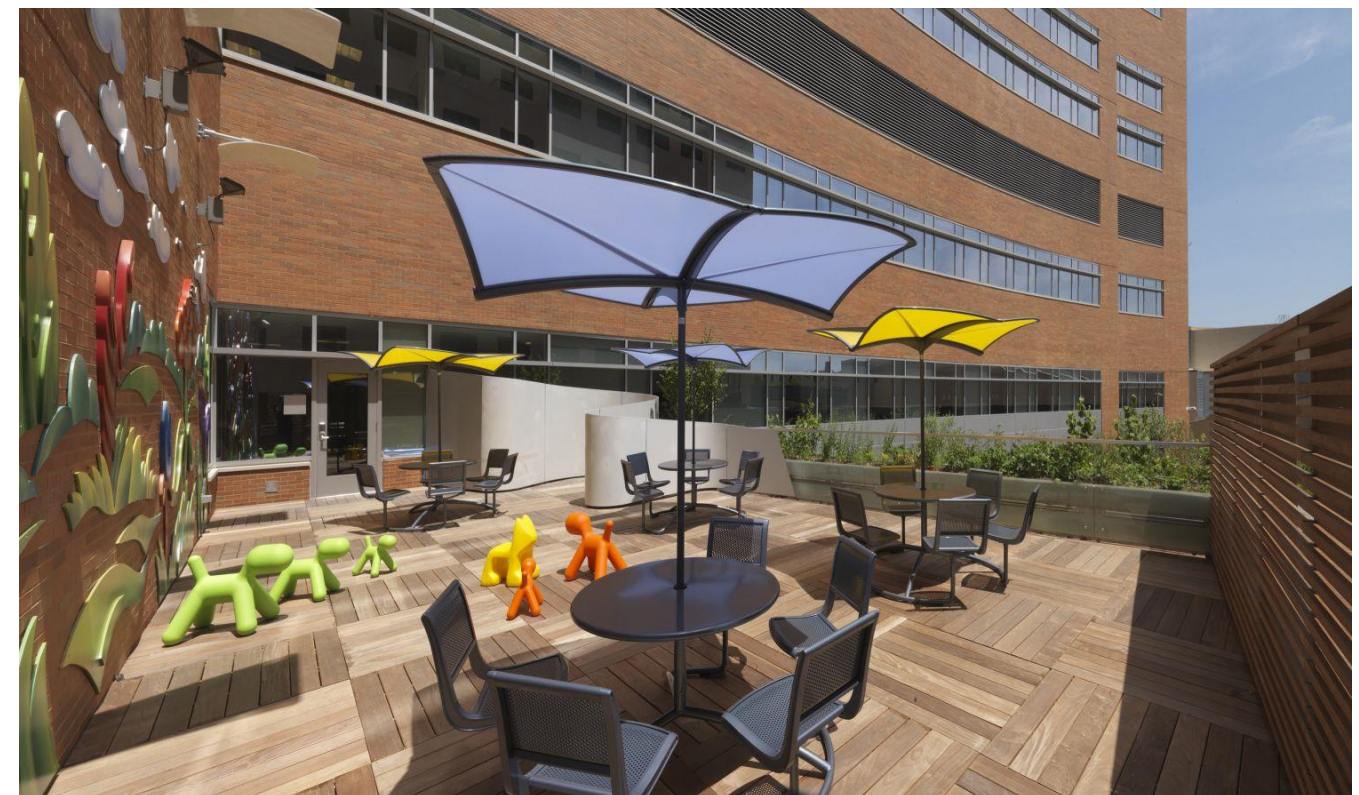
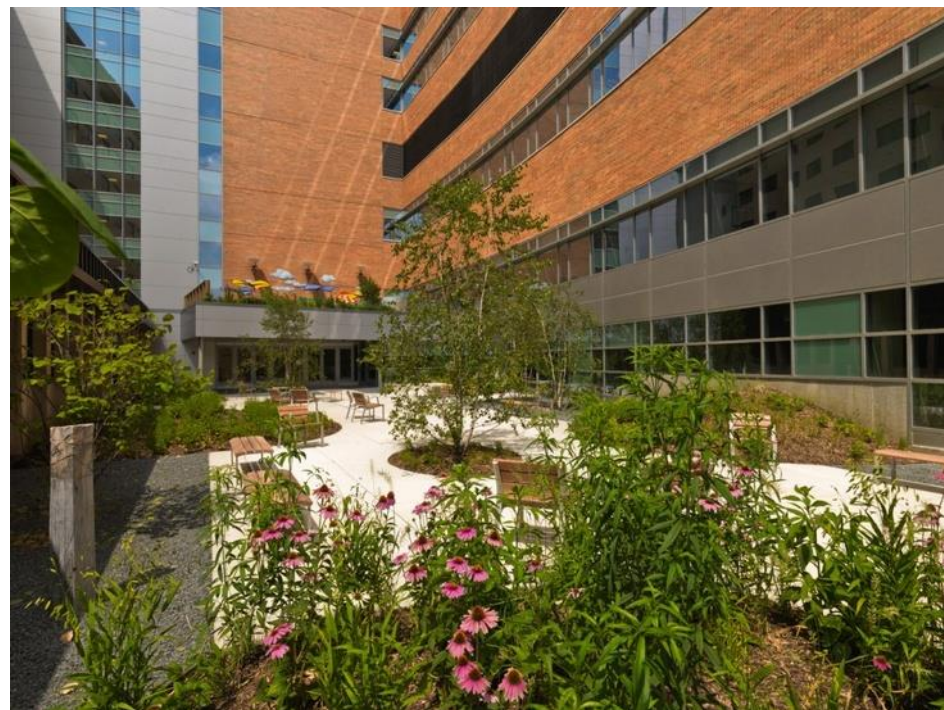
# CASE STUDY |

## Advocate Lutheran General Hospital Patient Tower

Conservation Design Forum | Park Ridge, IL | 2 acres | 2009



ADVOCATE LUTHERAN GENERAL BED REPLACEMENT TOWER - INTEGRATED LANDSCAPE PLAN

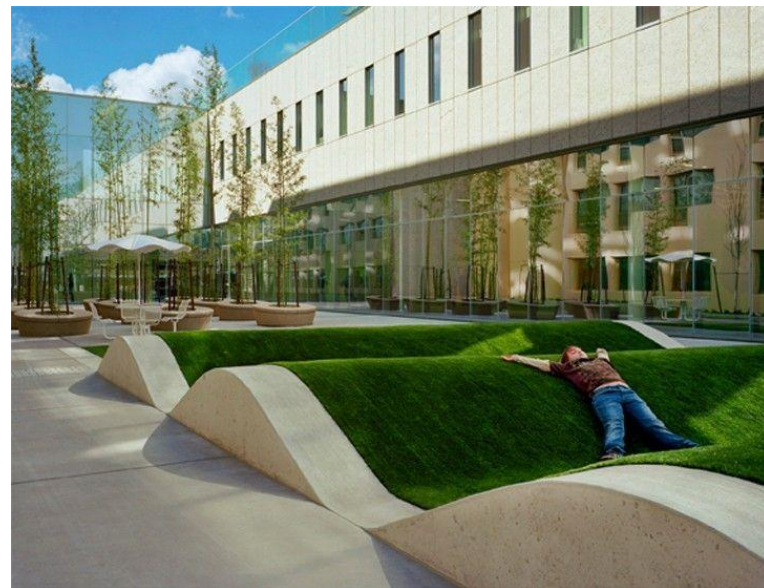




# CASE STUDY |

## Randall Children's Hospital

Zimmer Gunsul Frasca Architects LLP | Portland, OR | 5.5 acres | 2011





# CASE STUDY |

## Lady Cilento Children's Hospital

Lyons, Conrad Gargett | South Brisbane, AU | 28.45 acres | 2014



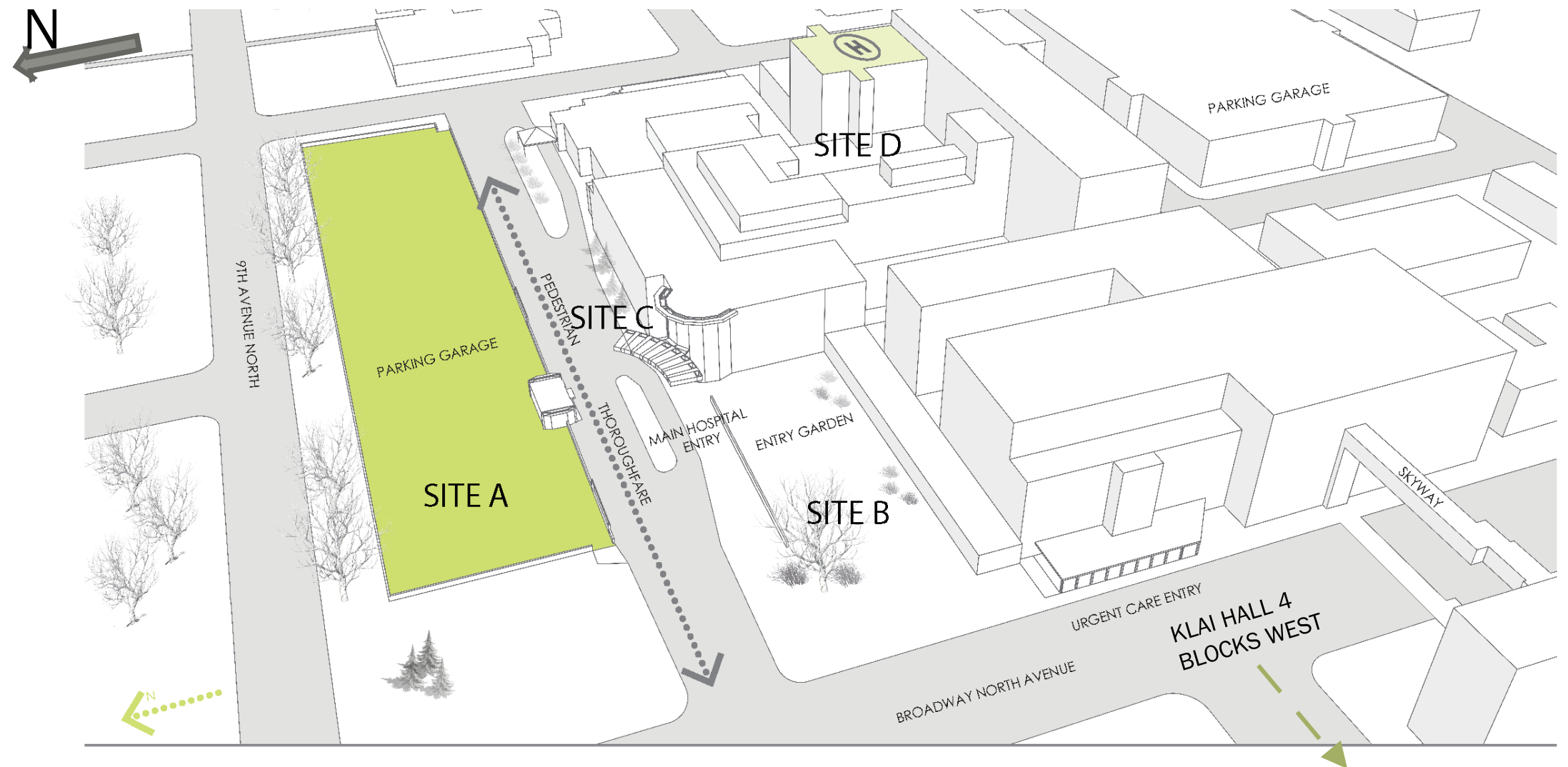


# GOALS

- SENSORY
  - *UTILIZING THE FIVE MAIN SENSES TO INFLUENCE HEALING*
  
- SOCIAL
  - *CREATING COMFORTABLE SOCIAL INTERACTIONS*
  
- SEASONAL
  - *3 SEASON ENJOYMENT OF GARDEN SPACE*

# SITE EXPLORATION

The  
Stanford  
Broadway  
Medical  
Center  
  
DOWNTOWN  
N  
FARGO, ND



# SITE SELECTION & ANALYSIS



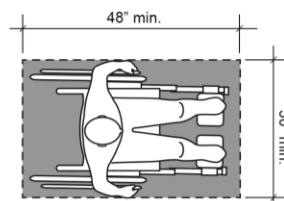
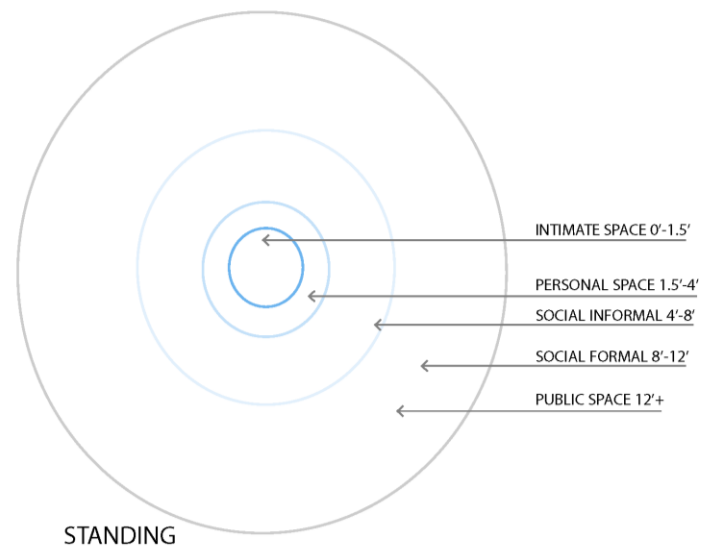
ANALYSIS   SITE RANKINGS							
SITE	SHADOWS	VIEWS	SOUND	TOUCH	ACCESS	SOCIAL	TOTALS
A	2	1	1	1	1	1	7
B	3	3	2	3	3	3	17
C	1	1	3	0	2	2	9
D	2	3	2	0	2	2	11



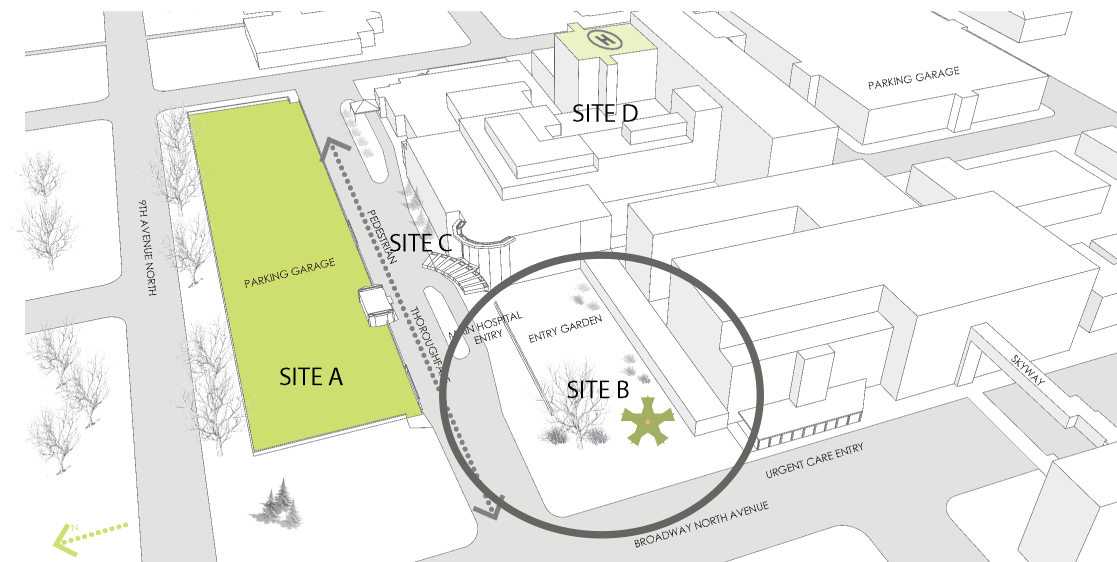
3 - GOOD  
2 - FAIR  
1 - POOR

## PROJECT GOALS

- 1] +INFLUENCE HEALING  
5 main senses
- 2] SOCIAL  
public/private spaces
- 3] SEASONABILITY  
year round interest



Minimum Clear Floor Space for Wheelchair

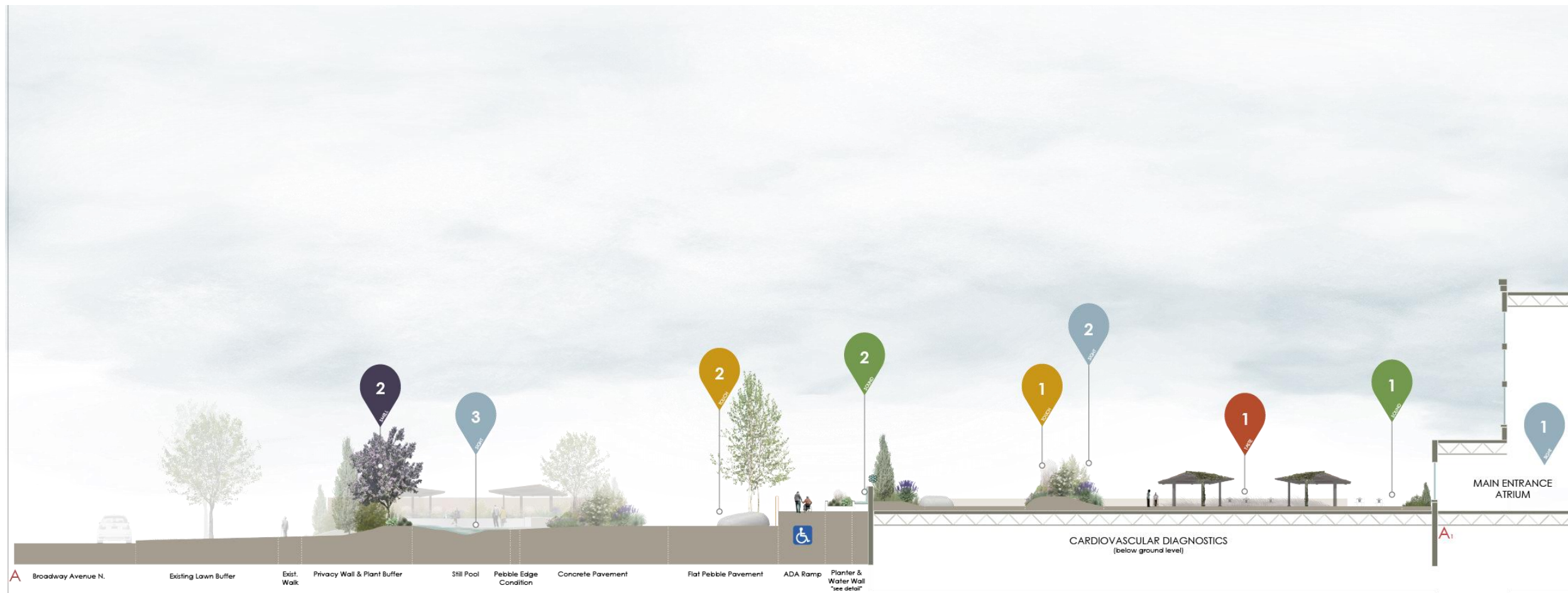




# MASTER PLAN



# SECTION A-A<sub>1</sub>



## SECTION A-A<sub>1</sub>

VIEW TO NORTH | SCALE 1:10

Section A-A<sub>1</sub> provides a better understanding of existing structures and modified topography. The Cardiovascular Diagnostics' roof structure will continue to be utilized as part of the healing garden design. Though challenging, the existing and ramp structures will be updated to provide patients with mobility limitations better access to the gardens many healing spaces.



# SECTION B-B<sub>1</sub>

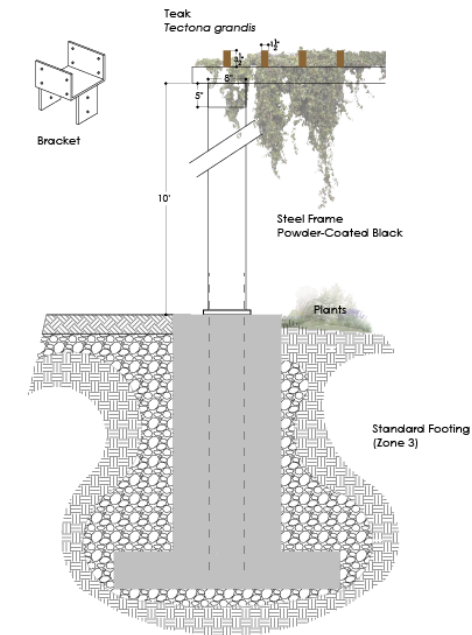
## SECTION B-B<sub>1</sub>

VIEW TO NORTH WEST | SCALE 1:5

Section B-B<sub>1</sub> provides understanding to the berming, wall and planting buffer. Proportion and scale were taken into account to assist in the creation of cozy and welcoming healing spaces. Flexible furniture design encourages the users to create custom seating arrangements to better fit their needs.



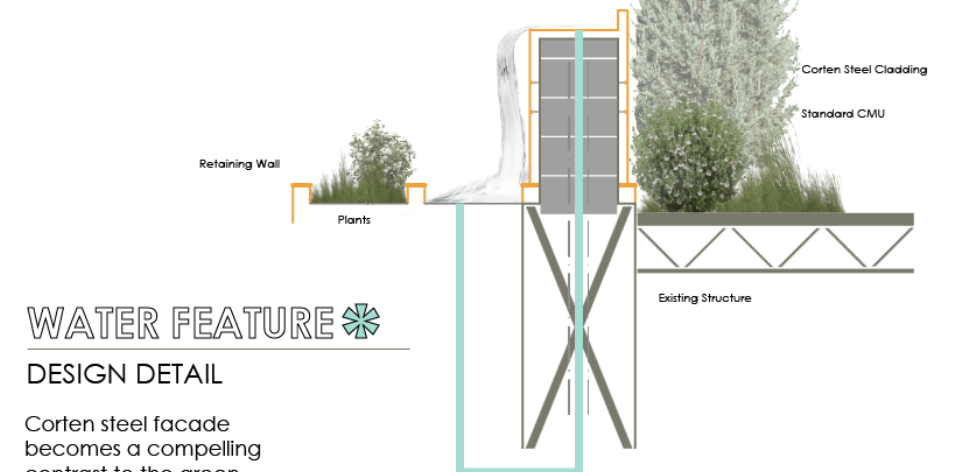
# DESIGN DETAILS



## PERGOLA ✪

### DESIGN DETAIL

Metal pergola with wooden accents brings contrast to the lush garden plantings. Providing shelter from the elements, these structures create an inviting and comfortable space for mental, physical and emotional healing.



## WATER FEATURE ✪

### DESIGN DETAIL

Corten steel facade becomes a compelling contrast to the green gardens. A unique patina develops as corten steel ages, similar to our bodies. Every scratch, scrape and divot tells a story. The water feature brings a sleek element of design and aids in sensory healing.



# PERSPECTIVE





# PERSPECTIVE





# PERSPECTIVE





# PERSPECTIVE



