**RESERVE, REDUCE, REHAB**

**SITE**
- The existing site is characterized by a rich tapestry of native plants, a highly permeable topography, and a diverse array of microclimates.

**RESERVE, REDUCE**
- The goal is to create a healing environment that promotes natural interaction with the elements and human experiences.

**REHAB + SCAPE**

**ASHEVILLE, NC**

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**P01 Reserve Land Use**
Aims to reduce earth work to conserve environment, at this scale, 3D modeling and REVit design were the primary tools.

**P02 PCU Up, THERAPY Down**
The planning of concepts seeks the central public level for either program, with the building which can be partially covered in a sense to seal off the thermal gains in summer.

**P03 Reduce Heat Gain**
Based on the study of local wind distribution, shifting buildings externally supported by a series of thermal chimneys to reduce heat gain in summer while also enhancing cross ventilation in each floor.

**P04 Translucent Skin**
Healthcare facility was huge facing to deconstruct the core and pavilions around. The design approach involved light wooden screens and tinted glass walls to create translucent facades to associate with vision which provide pleasurable heating environment inside of the building.

**P05 Create Sink Courtyard**
In need of an outdoor therapeutic garden, this area was designed to offer a sense of relief and safety for outdoor recreation for patients and families.

**P06 Enhance Public Axis**
The two-level RC facade acts as a transition to the main building. The main floor is open to the exterior, and the upper floor is protected by a bridge.

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**DESIGN CONCEPT**

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The east facade inspired by traditional eastern house which addresses sliding wooden screen to dialogue with natural settings. The wood screen wall consists of fixed wood screen panel and sliding door panel which enhance patient's living experience and room ventilation effect.

The patient units consist of 3 separated pods made less institutional by curved corridor adding more interest and delight to the main corridor with family lounge at the center of the ward and a centered waiting and reception area at the center in front of the grand stair and two-story atrium.

The feature of safety and efficiency for daily nursing operation and long-term care quality. The layout of the nurse station provides different monitor angles for staff, either reducing the nurse walking distance.

The light well along the corridor will enhance daylight experience to promote comfort inside and outside of patient rooms.

PCU
Private / Semi Private Size: 24,500 sf

The middle floor not only plays a reception role for visitors and staffs, but also provides living support functions for patients and families.

A highly sustainable, naturally ventilated, building which aims to achieve exemplary status in terms of carbon emissions and is sympathetic to the site in a natural forest habitat.

PUBLIC / FAMILY LEVEL
Program: Lobby / Dining / Family Suite / ADMIN
Size: 21,600 sf

1/16" = 1' - 0"

The semi-underground therapy floor consists of PT, OT, and other sub-therapy programs. The two-story space—Gym and Pool facing east which is translucent for vision communication. The two mechanical rooms sit in the corner, reducing duct distances and providing high-efficient air supply and return systems.

THERAPY LEVEL
Program: PT/OT/HT/Imaging
Size: (26,800 sf)

The ground floor features a mechanical system with 10 different zones, including a 2500 SF Fan Room (2 fan rooms on the ground floor). All-Air Central System: Single Duct / Variable Air Volume. The supply area range is 6 sf - 4 sf. The mechanical plan includes structural frame and mechanical systems with legends for reference. The structural frame plan and mechanical plan are provided with scales of 1/64" = 1' - 0" for detailed reference. The legend for the mechanical plan includes various elements such as supply ducts and return ducts.