



# *Serenity Simplified*

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# PROGRAMMING:

## Concept Statement:

Inspired by nature, the patient's room will use natural elements, cool crisp colors, and comfortable materials to help better the patient's experience. To help give the illusion of more space and an airy feel, lightplane panels and larger windows will be incorporated. Including a patient room with an adjacent bathroom, the design would create a calming atmosphere through an analogous color scheme of blues and greens, while still being a usable, functional ADA standard medical space. Ultimately, the goal of this project will be to make a space that will help to nurture the bond between a mother and her child.

## SAFE Evaluation:

By incorporating minimal furniture and having easy traffic flow within the space, the design will not only meet ADA standards, but will also be simple and functional for all necessary medical procedures that would occur. The design will also be appropriate for its intended purpose, as easy to clean finishes will be used as well as having all the appropriate areas in a patient's room, such as a nurse's station, and a head/footboard. Finally, by only changing the aesthetics of space, and not changing the major configuration of the room, it will not only make the space economical, but also SAFE.

## Program Statement:

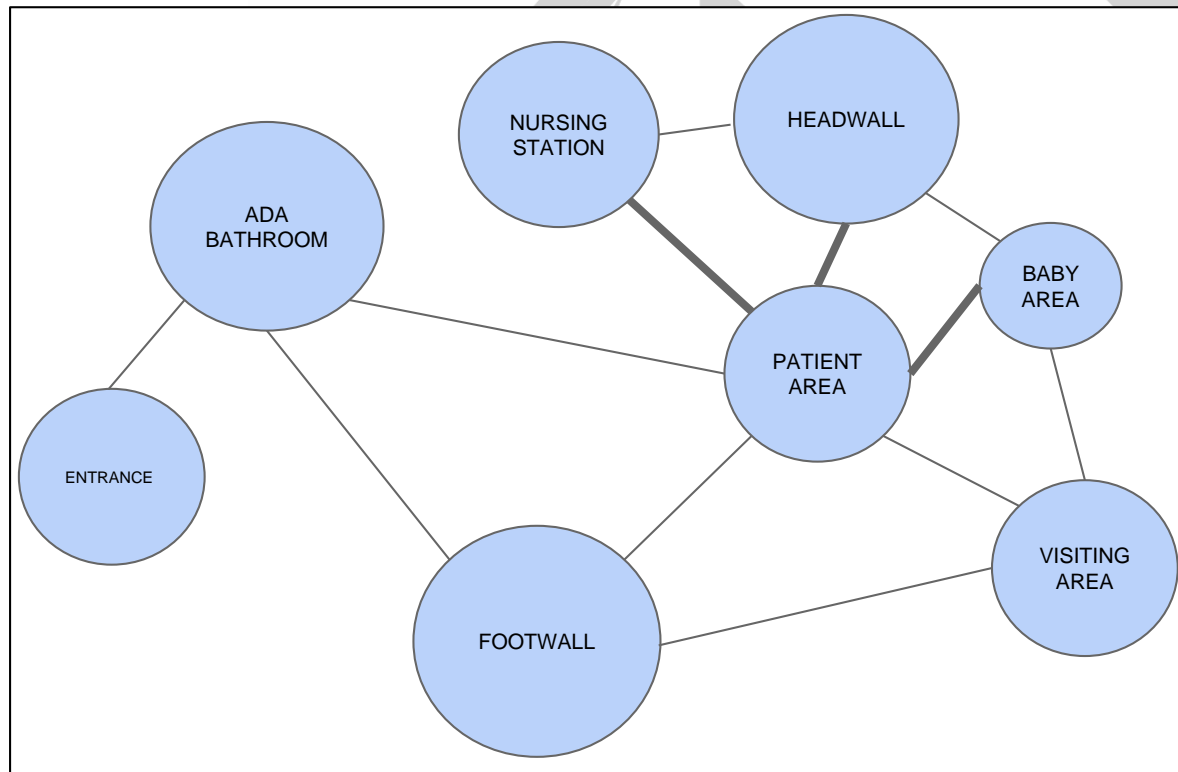
FUNCTION- Specifically used as a room for expecting mothers, this space will accommodate enough room for a mother, a newborn, visitors, and necessary medical staff. While its function will be to provide patients with a comfortable, clean room in which they can have a sense of privacy after such an intense procedure.

FORM- Incorporating both a patient room and bathroom, the space will be located on the fourth floor in Rm. 406, in the nursing wing of Sparrow Hospital in Lansing.

ECONOMY- For the purposes of this project, a high end budget will be observed, due to medical requirements, and for the safety of the patients.

TIME- This patient room will be available 24 hours a day, 7 days a week, yet will be private when a patient is occupying the space. Visitor hours are from 11 am-8pm daily.

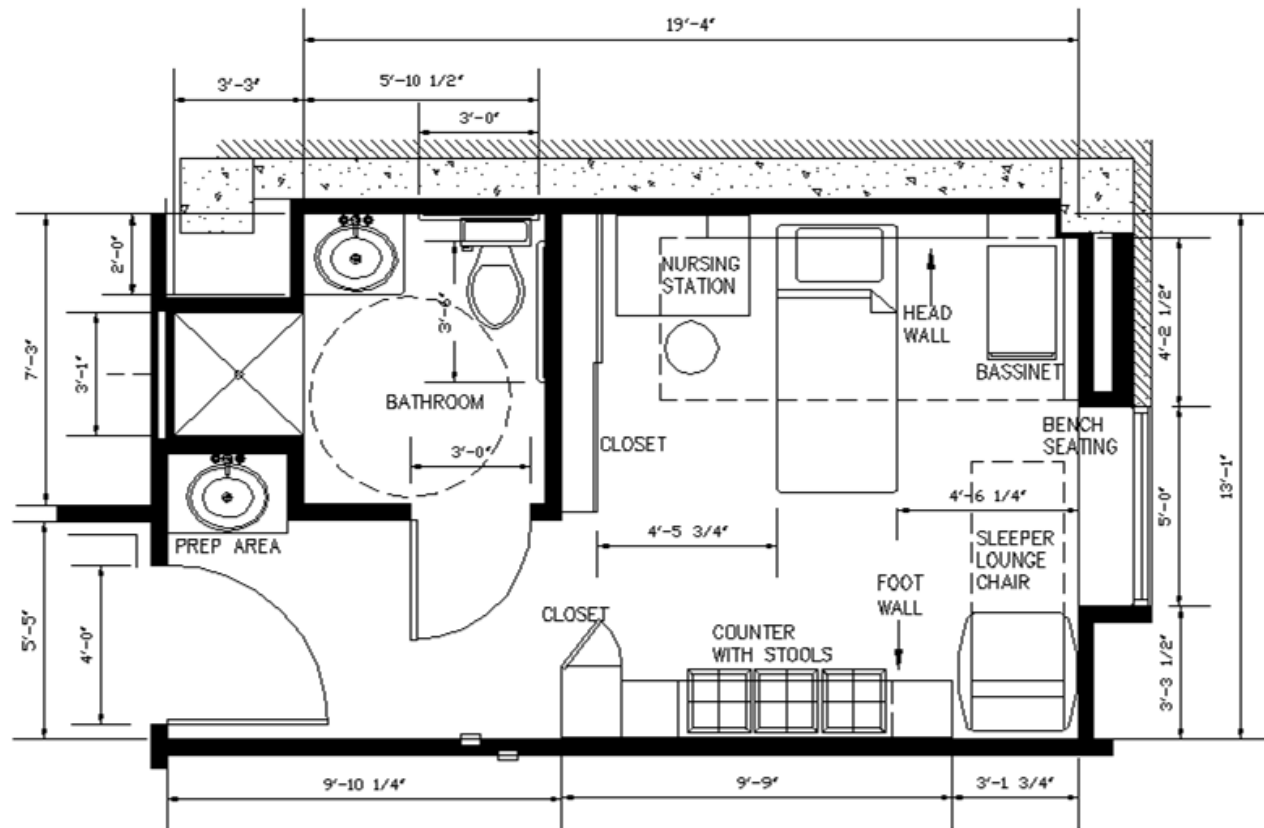
# BUBBLE DIAGRAM:



## KEY:

- IMMEDIATE ADJACENCY** (thick line)
- MEDIUM ADJACENCY** (medium line)
- NO ADJACENCY** (no line)

# FLOOR PLAN:



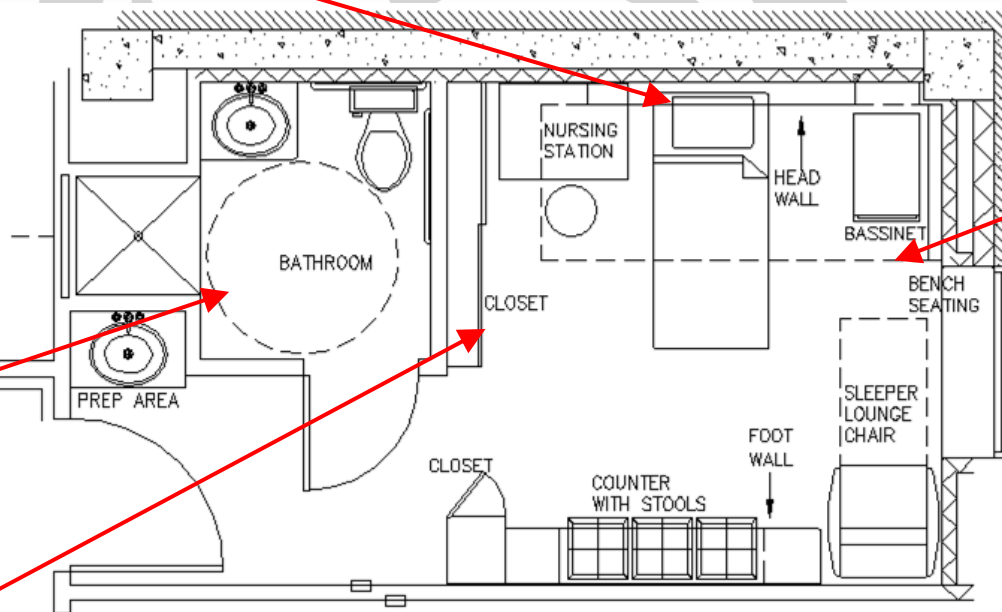
# ADA PATIENT ROOM PLAN:

**7.2.A2** Patient rooms shall have a minimum of 100 square feet of clear floor area per bed in multiple-bed rooms and 120 square feet of clear floor area for single-bed rooms, exclusive of toilet rooms, closets, lockers, wardrobes, alcoves, or vestibules. The dimensions and arrangement of rooms shall be such that there is a minimum of 3 feet between the sides and foot of the bed and any walls or any other fixed obstruction. Where renovation work is undertaken, every effort shall be made to meet the above minimum standards. In such cases, patient rooms shall have no less than 80 square feet of clear floor area per bed in multiple-bed areas and 100 square feet of clear floor area in single-bed rooms.

**304.3.1 Circular Space.** The turning *space* shall be a space of 60 inches (1525 mm) diameter minimum. The *space* shall be permitted to include knee and toe clearance complying with 306.

**305.3 Size.** The clear floor or ground *space* shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum.

**308.2.2 Obstructed High Reach.** Where a high forward reach is over an obstruction, the clear floor *space* shall extend beneath the *element* for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.



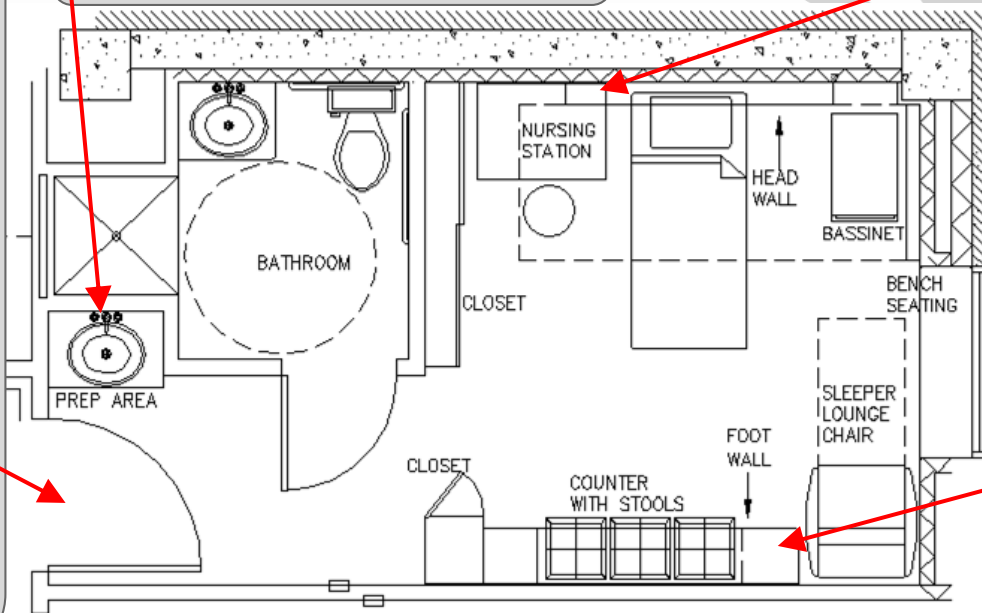
Medical care facilities that are subject to this section shall comply with the provisions of the 2010 Standards applicable to medical care facilities, including, but not limited to, sections 223 and 805 (pp. 81 and 209)

# ADA PLAN PATIENT ROOM:

**404.2.3 Clear Width.** Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

**603.2.3 Door Swing.** Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

**606.3 Height.** Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.



**306.3.2 Maximum Depth.** Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

**306.3.3 Minimum Required Depth.** Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

**Advisory 307.2 Protrusion Limits.** When a cane is used and the element is in the detectable range, it gives a person sufficient time to detect the element with the cane before there is body contact. Elements located on circulation paths, including operable elements, must comply with requirements for protruding objects. Similarly, casement windows, when open, cannot encroach more than 4 inches (100 mm) into circulation paths above 27 inches (685 mm).



# ADA BATHROOM PLAN:

## **609.4 Position of Grab Bars.**

Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface.

**604.5 Grab Bars.** Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

## **608.2.2 Standard Roll-In Type Shower Compartments.**

Standard roll-in type shower compartments shall be 30 inches (760 mm) wide minimum by 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment.

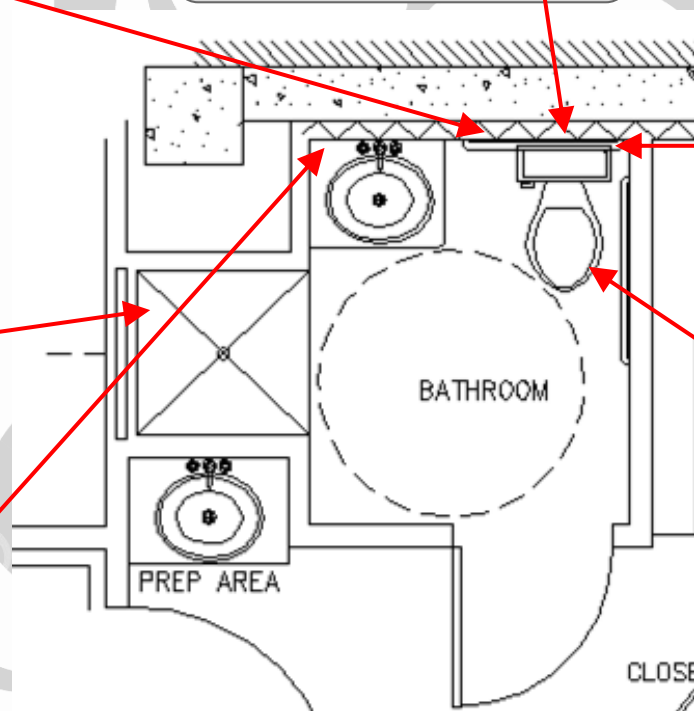
**603.3 Mirrors.** Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground.

**609.2.1 Circular Cross Section.** Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

**604.5.2 Rear Wall.** The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

**604.2 Water Closet Location.** The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2..

**604.3.1 Size.** Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.





# ADA BATHROOM PLAN:

## 308.2.2 Obstructed High Reach

Where a high forward reach is over an obstruction, the clear floor *space* shall extend beneath the *element* for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

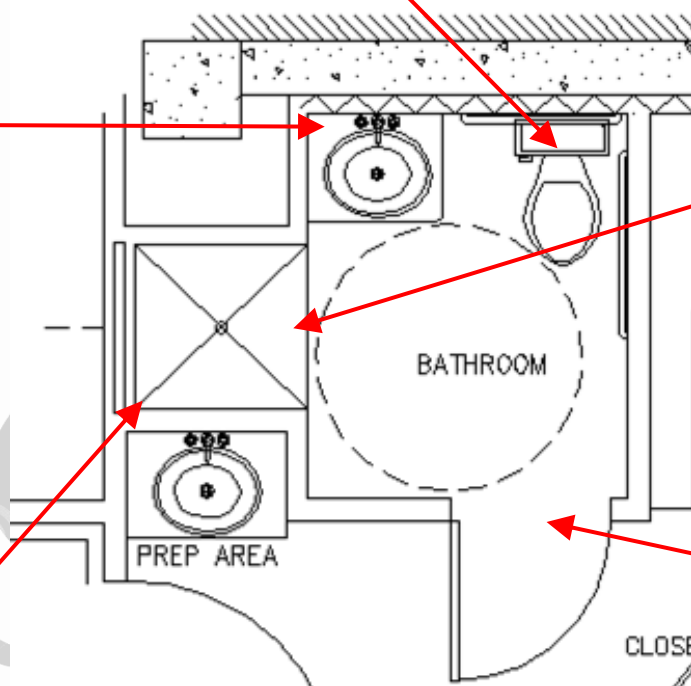
**608.6 Shower Spray Unit and Water.** A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Shower spray units shall deliver water that is 120°F (49°C) maximum.

**609.3 Spacing.** The *space* between the wall and the grab bar shall be 11/2 inches (38 mm). The *space* between the grab bar and projecting objects below and at the ends shall be 11/2 inches (38 mm) minimum. The *space* between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

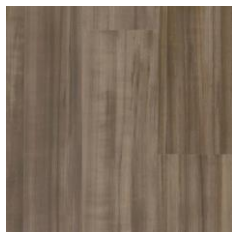
**604.4 Seats.** The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

**610.3 Shower Compartment Seats.** Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. Where a seat is provided in an alternate roll-in type shower compartment, it shall be a folding type, shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3 inches (75 mm) of the compartment entry. The top of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. Seats shall comply with 610.3.1 or 610.3.2.

**604.8.1.2 Doors.** Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition.



# FURNITURE AND FINISH PLAN:



## 3-D PERSPECTIVE VIEWS:



*HEADWALL VIEW*

## 3-D PERSPECTIVE VIEWS:



*FOOTWALL VIEW*



## 3-D PERSPECTIVE VIEWS:



*BATHROOM VIEW*

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