SPINAL CORD INJURY/DISORDERS CENTER
SPINAL CORD INJURY/DISORDERS CENTER
# Spinal Cord Injury/Disorders Center Design Guide

2011

## Preface

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Office of Construction & Facilities Management

Lloyd H. Siegel, FAIA
Director, Strategic Management Office
Washington, DC

Kurt Knight
Chief, Facilities Quality Service
(00CFM1A)
Washington, DC

Donald L. Myers, AIA, NCARB
Senior Architect Facilities Quality Service
(00CFM1A)
Washington, DC

Dennis Sheils
Resource Management Office
(00CFM2C)
Washington, DC
Spinal Cord Injury/Disorders Design Advisory Group (DAG)

Margaret Hammond, M.D.
Chief Consultant SCI&D SHG
Puget Sound HC System
Seattle, WA

Gary D. Goldish, M.D.
Staff Physiatrist (117) Rehabilitation Care Services
Minneapolis VAMC
Minneapolis, MN

Laura J. Johnson, RN, MSN
SCI Outpatient Coordinator (128)
Augusta VAMC
Augusta, GA

Stephen Lebduska, M.D.
Chief of Rehabilitation Care Services (117)
Syracuse VAMC
Syracuse, NY

Laurie Lindblom, M.D.
Service Line Manager, Spinal Cord Injury/Disorders Service (VISN 6)
Hampton, VA

John L. Merritt, M.D.
Chief of Spinal Cord Injury/Disorders Service (128)
James A. Haley VA Medical Center
Tampa, FL

Bernard A. Nemchausky, M.D.
Chief of Spinal Cord Injury/Disorders Service (128)
Edward Hines Jr. VA Medical Center
Chicago, IL

Carol Peredo Lopez, AIA
National Architecture Director
Paralyzed Veterans of America
Washington, DC

Mark Lichter, AIA
Sr. Associate Director of Architecture
Paralyzed Veterans of America
Washington, DC

Scott Speser, AIA
Associate Director of Architecture
Paralyzed Veterans of America
Washington, DC

Frank Menendez
Architectural Project Manager
Paralyzed Veterans of America
Washington, DC

Primary Consultants

EBA Ernest Bland Associates, P.C.
Silver Spring, MD

Ernest Bland, RA, AIA, NCARB
Project Principal

Yvonne Matinyi
Project Architect/Manager

Thomas Osborn, AIA
Medical Equipment Planner

Hermione Toussaint
Technical Support/Designer

Sub Consultants

William Rice, FACHE, FAAHC
Healthcare Consultant
Alexandria, VA

Jim Morell, FAAHC, CHE
SCI Consultant
Chicago, IL

Burdette, Koehler, Murphy Associates
MPE Consulting Engineering
Baltimore, MD
Foreword

The material contained in the Spinal Cord Injury / Disorders Center Design Guide is the culmination of a partnering effort by the Veterans Health Administration, Paralyzed Veterans of America, and the Office of Construction & Facilities Management. The goal of this Design Guide is to facilitate the design process and to ensure the quality of VA facilities, while controlling construction and operating costs.

This document is intended to be used as a guide to supplement VA Space Planning Criteria, other technical criteria, and related VA programs and policies for Spinal Cord Injury / Disorders. Use of this Design Guide does not preclude the need for a functional and physical design program for each specific project. It is the responsibility of the Project Architect and the Project Engineer to develop a complete and accurate project design that best meets the users’ needs and complies with applicable standards and code requirements.

Lloyd H. Siegel, FAIA
Director
Strategic Management Office
Introduction

Spinal cord injury is a condition where an individual sustains a lesion of the spinal cord that results in either paraplegia or tetraplegia. Paraplegia is the loss of nerve control approximately from the waist down and accounts for approximately 40% of all spinal cord injuries. Tetraplegia is the loss of nerve control from the neck or shoulders down and accounts for 30%. Most individuals with tetraplegia lack control of the legs, lower torso, and bowel and bladder. Many are without upper torso control, arms and hands control, and intrinsic hand articulation. Spinal cord damage can be complete or incomplete. Complete damage is the permanent loss of movement or sensation below the level of injury. Incomplete damage occurs when the spinal cord is not completely damaged at the level of injury. This allows some sensation and movement in the body areas below the level of injury.

The immediate change that occurs from a Spinal Cord Injury/Disorders (SCI/D) is a life altering event. Following the injury, a period of mourning is not uncommon. SCI/D spans all ages and genders although in the general public, the majority of occurrences are found in young males taking risks while playing sports and other circumstances. The injuries in the case of veterans are related to both combat as well as non-combat related incidents. Dramatic changes and improvements have taken place since the previous SCI/D Center Design Guide in the 1990’s and continued progress is ongoing in both the private and public sectors in the field of Spinal Cord Injury/Disorders research, treatment, and care.

Among the many developments is the degree to which activity can continue among SCI/D patients. Increased access to public facilities, development in technology for mobility, expansion of the types of activities available, interactive communication devices, and sporting activities are some of the ways individuals are able to better mainstream into society and develop a degree of independence. Independence and mobility are important factors in the rehabilitation of the SCI/D patients.

During the course of the development of this update to the VA Spinal Cord Injury/Disorders Design Guide, the team visited and studied Spinal Cord Injury/Disorders Centers across the country. The dedication to care exhibited by the nurses, doctors and staff of the facilities is unrivaled in healthcare.

The core mission of the Department of Veterans Affairs contrasts that of the private sector. For example, private sector facilities have a limitation to the time an acute care patient may remain at the facility. Although there are specific aspects related to outpatient care and some long term care, insurance industry practices dictate limitations on SCI/D facilities in the private sector. By contrast, the VA is committed to a lifetime of care for our Nation’s Veteran population in all facets of health care including Spinal Cord Injury/Disorders care.

As this is not a scientific document, several aspects of Spinal Cord Injury/Disorders technology, science, and application of techniques are not a
part of this text. For more in depth analysis of information related to the medical and research aspects of the field, it is recommended that other sources be utilized. As with all Design Guides, this document is not a code, it is a tool to establish minimum requirements as an introduction to the development of a quality or “state of the art” Spinal Cord Injury/Disorders Center.
Glossary

Acute rehabilitation program - Primary emphasis on the early rehabilitation phase which usually begins as soon as a person is medically stable. The program is designed to be comprehensive and based in a medical facility with a typical length of stay of 2-3 months. Treatment is provided by an identifiable team in a designated unit.

ADL - Activities of daily living: eating, dressing, grooming, shaving, etc. Nurses, occupational and physical therapists are the main coaches for ADL, which is sometimes called DLS or daily living skills.

Cauda Equina (CE) - The cauda equina (CE) is formed by nerve roots caudal to the level of spinal cord termination. Cauda equina syndrome (CES) has been defined as low back pain, unilateral or usually bilateral sciatica, saddle sensory disturbances, bladder and bowel dysfunction, and variable lower extremity motor and sensory loss.

Cystogram (CG) - X-ray taken after injecting dye into bladder.

G.U. (Genitourinary) - of or relating to the genital and urinary organs or functions.

Incontinence - Lack of bowel and/or bladder control.

Kinesiotherapy (KT) - The treatment of disease by means of passive and active movements, such as massage and exercise. Also called kinesiatrics.

Lithotripsy - A non-invasive treatment for kidney stones. Shock waves, generated under water by a spark plug, crumble stones into pieces that will pass with urine.

Occupational Therapist (OT) - An occupational therapist is a person trained in or engaged in the practice of occupational therapy. The role of an occupational therapist is to work with a client through the use of “purposeful activity or interventions” designed to achieve functional outcomes which promote health, prevent injury or disability and which develop, improve, sustain or restore the highest possible level of independence.

Occupational Therapy (OT) - Structured activity focused on activities of daily living skills (feeding, dressing, bathing, grooming), arm flexibility and strengthening, neck control and posture, perceptual and cognitive skills, and using adaptive equipment to facilitate ADL.

Orthotic - A support or brace for weak or ineffective joints or muscles.

Paraplegia - Refers to impairment or loss of motor and/or sensory function in the thoracic, lumbar or sacral (but not cervical) segments of the spinal cord, secondary to damage of neural elements within the spinal canal. With paraplegia, arm functioning is spared, but, depending on the level of injury, the trunk, legs, and pelvic organs may be
involved. There are some types of paralysis involving the legs that are described by the impairment they cause.

**Physical Therapist (PT)** - A health professional who teaches exercises and physical activities that help condition muscles and restore strength and movement.

**Physical Therapy (PT)** - Structured activity focused on mobility skills (bed, transfers, wheelchair use, walking), leg flexibility and strengthening, trunk control and balance, endurance training, and using adaptive equipment to facilitate mobility.

**Pressure Ulcer** - Also known as a pressure sore, potentially dangerous skin breakdown due to pressure on skin resulting in infection, tissue death.

**Quadripareisis** - Partial loss of function of all four (4) extremities of the body.

**Quadriplegia** - Quadriplegia is the loss of nerve control from the neck or shoulders down that often results in the lack of control of the legs, lower torso, and bowel and bladder.

**Range of Motion (ROM)** - The normal range of movement of any body joint. Range of Motion also refers to exercises designed to maintain this range and prevent contractures.

**Rehabilitation** - Retraining to normal functionality or training for new functionality.

**Tetraplegia** –Also termed quadriplegia. Describes the complete or incomplete paralysis from the neck downwards, affecting all four limbs and the trunk. This is the result of damage to the spinal cord between C1 and C8 (cervical spine).

**Ventilator** - Mechanical device to facilitate breathing in persons with impaired diaphragm function.
## Abbreviations

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<td>A</td>
<td>Amps</td>
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<td>ABA</td>
<td>Architectural Barriers Act</td>
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<td>AC/HR</td>
<td>Air Changes per Hour</td>
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<td>ADA</td>
<td>Americans with Disability Act</td>
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<td>ADAAG</td>
<td>ADA Accessibility Guidelines</td>
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<tr>
<td>A/E</td>
<td>Architectural / Engineering Firm</td>
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<td>AHJ</td>
<td>Authority Having Jurisdiction</td>
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<td>AIA</td>
<td>American Institute of Architects</td>
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<td>ANSI</td>
<td>American National Standards Institute</td>
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<td>AR</td>
<td>As Required</td>
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<td>ASHRAE</td>
<td>American Society of Heating Refrigerator &amp; Air-Conditioning Engineers</td>
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<tr>
<td>BGSF</td>
<td>Building Gross Square Feet</td>
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<td>CARES</td>
<td>Capital Assets Realignment for Enhanced Services</td>
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<td>CFM</td>
<td>Cubic Feet per Minute</td>
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<td>Department of Energy</td>
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<td>DGSF</td>
<td>Departmental Gross Square Feet</td>
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<td>DVA</td>
<td>Department of Veterans Affairs</td>
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<td>FAR</td>
<td>Floor Area Ratio</td>
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<td>FC</td>
<td>Foot Candle</td>
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<td>FM</td>
<td>Office of Facilities Management</td>
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<td>GSF</td>
<td>Gross Square Feet</td>
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<td>GSM</td>
<td>Gross Square Meters</td>
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<td>HIPAA</td>
<td>Healthcare Insurance Portability and Accountability Act</td>
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<td>HP</td>
<td>Horsepower</td>
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<tr>
<td>HVAC</td>
<td>Heating, Ventilating and Air Conditioning</td>
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<tr>
<td>IAQ</td>
<td>Indoor Air Quality</td>
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<tr>
<td>IBC</td>
<td>International Building Code</td>
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<tr>
<td>IRSC</td>
<td>Intensive Rehab and Sustaining Care</td>
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<tr>
<td>JCAHO</td>
<td>Joint Commission on Accreditation of Healthcare Organizations</td>
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<td>Kinesiotherapy</td>
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<tr>
<td>LB</td>
<td>Pound, Pounds</td>
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<tr>
<td>LUX</td>
<td>Lumen per Square Meter</td>
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<td>LTC</td>
<td>Long Term Care</td>
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<tr>
<td>NEC</td>
<td>National Electrical Code</td>
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<tr>
<td>NHRA</td>
<td>Nursing Home Reform Act (of 1987)</td>
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<td>NFPA</td>
<td>National Fire Protection Association</td>
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<td>NHCU</td>
<td>Nursing Home Care Unit</td>
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<td>NR</td>
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<td>Net Square Feet</td>
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<td>NSM</td>
<td>Net Square Meters</td>
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<td>NTS</td>
<td>Not to Scale</td>
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<td>NUSIG</td>
<td>National Uniform Seismic Installation Guidelines</td>
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<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
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<td>OT</td>
<td>Occupational Therapy</td>
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<td>PT</td>
<td>Physical Therapy</td>
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<td>PVA</td>
<td>Paralyzed Veterans of America</td>
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<td>RMS</td>
<td>Rehabilitation Medicine Services</td>
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<td>RCP</td>
<td>Reflected Ceiling Plan</td>
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<td>RH</td>
<td>Relative Humidity</td>
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<td>RT</td>
<td>Recreation Therapy</td>
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<td>SCI/D</td>
<td>Spinal Cord Injury Disorders</td>
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<td>SCI/DC</td>
<td>Spinal Cord Injury/Disorders Center</td>
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<tr>
<td>SF</td>
<td>Square Feet, Square Foot</td>
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<td>SMACNA</td>
<td>Sheet Metal and Air Conditioning Contractor’s National Association</td>
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<td>SVH</td>
<td>State Veterans Home</td>
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<td>SqM</td>
<td>Square Meters</td>
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<td>TIL</td>
<td>Technical Information Library</td>
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<td>TV</td>
<td>Television</td>
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<td>UBC</td>
<td>Uniform Building Code</td>
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Abbreviations – continued

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<td>UFAS</td>
<td>Uniform Federal Accessibility Standards</td>
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<td>V</td>
<td>Volts</td>
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<tr>
<td>VA</td>
<td>Department of Veterans Affairs</td>
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<tr>
<td>VACO</td>
<td>Veterans Affairs Central Office</td>
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<tr>
<td>VA CFM</td>
<td>Veterans Affairs Office of Facilities Management</td>
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<tr>
<td>VA OCFM</td>
<td>Veterans Affairs Office of Facilities Management</td>
</tr>
<tr>
<td>VAMC</td>
<td>Veterans Affairs Medical Center</td>
</tr>
<tr>
<td>VHA</td>
<td>Veterans Health Administration</td>
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<tr>
<td>VISN</td>
<td>Veterans Integrated Service Network</td>
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1. NARRATIVE

1.1 General Description, Function and Concepts

1.1.1 The Spinal Cord Injury/Disorder Patient

A patient with a Spinal Cord Injury or Disorder (SCI/D) is one who has sustained a lesion or disease of the spinal cord or cauda equina resulting in either paraplegia or tetraplegia. Paraplegia involves the loss of nerve control from about the waist down. Tetraplegia involves nerve control loss from the neck or shoulders down. Most patients are without control of the legs, lower torso, bowel and bladder. Most patients with tetraplegia are also without upper torso, arm, and hand control; and intrinsic hand articulation. There may be respiratory control problems as well. The Intensive Rehab and Sustaining Care populations have about an equal number of patients with paraplegia as tetraplegia while the Long Term population has a majority of patients with tetraplegia.

It can be assumed that each SCI/D patient will require an assistive device for mobility. Patients with Paraplegia may be expected to use manual wheelchairs while those with tetraplegia are more likely to use power wheelchairs. Lack of mobility, coupled with the loss of sensation can lead to pressure ulcer (pressure sore). Treatment for sores can temporarily confine a patient to a gurney.

Due to the nature of their injuries and to the length of rehabilitation that is required, SCI/D patients tend to have relatively long hospital stays. After rehabilitation, SCI/D patients often require readmissions for preventative and curative purposes, and outpatient visits. There will always be an ongoing relationship between the SCI/D patient and the SCI/D Center.

1.1.2 The Spinal Cord Injury/Disorders Treatment Team and Staff Levels

Treatment of SCI/D patients requires a coordinated team effort that includes the following minimal staff for only some of the critical disciplines:

1. **Medical Center Director** - The Director is responsible for ensuring that SCI/D Center staff levels adhere to policy directives set by the Veterans Health Affairs (VHA).

2. **SCI/D Physician Staff** - The SCI/D Physician Staff levels are set at one physician for every ten-staffed (operating) beds. An additional 0.5 FTE physician is to be allocated for the administrative responsibilities of the full-time SCI/D Chief.

3. **Nursing Staff** - The Nursing Staff levels are set at a minimum of 71 FTE’s per 50 beds or 1.42 FTE per staffed bed. Staffing levels are adjusted when acuity levels of the patient population exceed the national VA average.

4. **SCI/D Social Workers** - The SCI/D Social Workers are provided at a ratio of 1 per 20 staffed beds. Social workers also provide on-site services to SCI/D outpatients.

5. **SCI/D Psychologists** - The SCI/D Psychologists are provided at a ratio of 1 per 20 staffed beds. Psychologists
also provide services to SCI/D outpatients.

6. **Therapists** - The Therapist staffing levels are set at one rehabilitation therapist (from a mix of physical therapists, occupational therapists, kinesiotherapists, and certified therapeutic recreational specialists) per five staffed beds.

7. **Other staff** - Other staffing needs are determined locally to provide for such SCI/D Center programs as SCI/D Home Care, SCI/D Care Coordination, SCI/D Outpatient Clinic, and SCI/D Telemedicine programs in addition to the preceding defined minimal staffing needs.

1.1.3 **The Spinal Cord Injury/Disorders Center**

A Spinal Cord Injury/Disorders Center (SCI/DC) is a specialized medical facility designed to provide a full range of care for patients who have sustained a lesion of the spinal cord and/or cauda equina resulting in either paraplegia or tetraplegia. Each patient assigned to this unit uses a manual or electric powered wheelchair, or occasionally a gurney.

The purpose of the SCI/D Center is to provide care and treatment for the Spinal Cord Injury/Disorder patients and to ensure that they receive maximum benefit from trained staff in a specialized, mission-oriented facility.

Spinal Cord Injury/Disorders Care is divided into three phases and SCI/D Center designs must provide for their differing needs.

1. **Acute (Intensive Rehabilitation)** - Acute care involves medical stabilization immediately after injury and is usually provided at the nearest trauma center, with later transfer to an SCI/D Center as soon as possible.

In an Intensive Rehab Unit, a multidisciplinary medical team focuses on bringing the patient to the highest functional level possible. The goal is to enable the patient to return to independent living. Specialized care in the acute setting includes at least the following activities:

- Prevention and/or treatment of medical and surgical problems associated with the spinal cord injury.
- Diagnostic and surgical care of the urinary tract system.
- Providing proper nursing care to prevent the formation of pressure ulcers.
- Training patients to perform their own self care, this includes such activities as getting dressed, getting into and out of bed, bathing, performing toilet activities (bowel and bladder care), etc.
- Training in optimal mobility whether learning to walk again or effective use of a wheelchair.
- Providing patients with and teaching them to use any special assistive devices they may need to achieve independence.
- Diagnostic and surgical care of the urinary tract system.
- Providing patients and family with social, psychological and vocational support to deal with the consequences of the injury.
- Providing proper nursing care to optimize outcomes and to prevent complications such as the formation of pressure ulcers.
• Restoration and/or maintenance of nutritional status.
• Providing education to empower the patient and for subsequent training of a personal care assistant, if needed.

2. Sustaining Care - provides medical, surgical, rehabilitative, and SCI/D home care services for needs that arise subsequent to initial rehabilitation. Primary and specialty care are delivered on an inpatient and outpatient basis.

3. Long Term Care - serves patients with complex medical needs in either SCI/D long term care centers or to stable patients in VA Nursing Home Care Units. Patients residing in Long Term Care Centers are of varying ages. Long term care SCI units will follow these design criteria with modifications.

1.1.4 The SCI/D Center Components

The key elements of a Spinal Cord Injury/Disorders Center include but are not limited to:

• Reception Areas
• Acute Care Patient Care Units
• Long Term Care Patient Care Units
• Administrative and Support Areas
• Patient Care Unit: Common Support
• SCI/D Patient Clinics
• SCI/D Patient Therapy
• SCI/D Home Care
• SCI/D Administration
• Staff Lockers, Lounge, and Toilets
• Residency Program

For a complete listing of the SCI/D spatial requirements, please refer to the Chapter 104 of the VA Space Planning Criteria.

1. Reception Areas – consist of general waiting areas, reception, toilet rooms, and consultation rooms that are planned to help orient the SCI/D Patient and persons accompanying the patient to the SCI/D Center.

This is the first impression of the SCI/D Center and should be designed to provide a pleasant and welcoming environment. The reception area is particularly important to provide information and directions if needed.

The reception area also notifies the staff that the patient has arrived; beginning the patient check-in process. The reception counter should be designed to accommodate persons using wheelchairs and gurneys.

2. Acute Care Patient Care Units - consist of the functions needed to provide living accommodations and deliver health care to Spinal Cord Injury/Disorders (SCI/D) patients. An SCI/D Center may include acute, sustaining, or long term care nursing units.

Most frequently, Acute and Sustaining Care beds are managed together on the same patient care units while Long Term Care beds are located separately. The Patient Care Units, as described in this Design Guide, consist of the various types of inpatient rooms and adjoining toilet/shower rooms.

3. Long Term Care Patient Care Units – Discussion of Long Term Care units have been assigned a separate section of this Design Guide (See Chapter 4).
4. **Administrative and Support Areas** – consist of various spaces such as unit storage, soiled and clean utility, and the nurse station. These areas directly support the individual patient unit and are provided for each unit.

5. **Patient Care Unit: Common Support** - consists of the functions needed for inpatient treatment and patient care. Included are areas to support patient activities and care, staff functions for clinical affairs, and logistical and environmental services.

6. **SCI/D Patient Clinics** - consist of the functions that provide SCI/D outpatient health care services, as well as those functions shared by SCI/D inpatients. These functional areas include exam rooms, Urodynamics Lab, and other treatment areas.

7. **SCI/D Patient Therapy** – consist of space allocated to physical and occupational therapy, activities of daily living, therapeutic pool, and other spaces designed to help the SCI/D patient achieve the highest level of mobility and independence.

8. **SCI/D Home Care** – consist of space to provide for the SCI/D Home Care program. This outreach program provides services to SCI/D patients at their homes and supplements services offered to SCI/D patients at the SCI/D Center.

9. **SCI/D Administration** - consists of staff offices and support spaces responsible for the management of the SCI/D Center. These functional areas also include the lobby/information/reception space, clerical work spaces, and conference/educational spaces. (See Figure 1.1 Functional Diagram).

10. **Staff Lockers, Lounge, and Toilets** – consist of space allocated for staff members at the SCI/D Center.

11. **Residency Program** – consist of space allocated for the Residency Program at VA medical facilities that are affiliated with other medical programs.
Figure 1.1
Spinal Cord Injury/Disorders Center Functional Diagram
NTS
1.2 Planning Criteria

1.2.1 General Design Goals

When planning an SCI/DC facility, several primary goals should be considered including: Infection Control, Single Patient Bedrooms, Quieter Hospitals, Views of Nature/Day Lighting, Ventilation and Unit Design.

- **Infection Control**
  Reduce patient infections with single-bed rooms. Provide numerous hand washing sinks and hand-cleaner dispensers. Provide a separate Patient Litter Bathroom for each patient bed.

- **Single Patient Bedrooms**
  Provide single-bed rooms per VA space planning criteria. Adaptable-acuity single-bed rooms should be widely adopted.

  Single rooms have been shown to lower hospital-induced nosocomial infections, reduce room transfers and associated medical errors, greatly lessen noise, improve patient confidentiality and privacy, facilitate social support by families, improve staff communication to patients, and increase patients’ overall satisfaction with health care.

- **Quieter Hospitals**
  New hospitals should be quieter to reduce stress and improve sleep and other outcomes.

  Noise levels will be substantially lowered by the following combination of environmental interventions: providing single-bed rooms, installing high-performance sound-absorbing ceilings, and eliminating noise sources (for example, using noiseless paging).

- **Views of Nature/Day Lighting**
  Provide patients with stress reducing views of nature and other positive distractions. Improve artificial light sources with full-spectrum lighting. Reduce depression through light, both natural and artificial.

- **Ventilation**
  Improve ventilation with improved filters, attention to appropriate pressurization, and special attention to detail during construction.

- **Unit Design**
  Design unit layouts and nurses stations to reduce staff walking and fatigue, increase patient care time and support staff activities such as medication supplies, communication, charting, and respite from stress (See Figure 1.2).

  Develop way-finding systems that allow users, and particularly outpatients and visitors, to find their way efficiently and with little stress.

![Figure 1.2 Patient Charting Area](SCI/D Center VAMC Cleveland)
1.2.2 Location

In new medical facility construction the SCI/D Center is required to be located on grade with access to the main Medical Center elevators. In existing hospitals, every effort must be made to locate the SCI/D Center on the ground level.

Alternate locations must be approved by the Chief Consultant SCI/D. In all cases, SCI/D patients must have direct, level and enclosed access to all major medical facilities related to SCI/C care.

The SCI/DC should have close proximity to Rehabilitation Medicine, Prosthetics Service, Dietetics Service, Supply Service and Building Management Service. There should be no proximity between the SCI/D Center and Psychiatric patients.

1.2.3 Unit Layout

Patient care units are to be planned to maximize staff efficiency. Patient unit layouts should minimize walking distances for staff to allow more Staff time in direct patient care.

The layout needs to encourage patient interaction through social spaces and areas for shared activities. Further, the facility layout should provide patient access to the outdoors for active and passive therapeutic activities.

Key design features include:

- Doorways to rooms should be 48” (1219 mm) wide or wider to accommodate patient beds, electric wheelchairs and other personal mobility devices.

- Maneuvering space shall be of 66” (1676 mm) diameter in all patient rooms, toilet/showers in all patient areas (Note: This has been adopted as a VA standard.)

- Patient rooms for SCI/D patients need to be larger than typical patient rooms to sustain/provide adequate circulation space and space for patient lifting and transfer. (See Figure 1.3 and Guide Plates No.1 and No.3).

- Patient toilet/showers (Private Litter Baths) are larger to allow staff and other caregivers to assist patient with toileting and showering, as needed (See Guide Plate No.4).

- Circulation space in common areas, such as dining rooms need to be generous to allow two wheel chairs or other power/electric mobility devices to pass each other (See Guide Plate No. 12).

- Physical therapy departments should be designed so that therapists can reach all four sides of patients on PT mats or other similar equipment (See Guide Plates No. 29,30,and 31).
1.2.4 Space Program Requirements

1. **Patient Care Unit** - Patient Care Unit size is expressed by the number of beds per unit. The size of the patient unit depends on a number of factors, including the overall number and type of approved beds. However, it is recommended that 30 beds be the minimum unit size.

2. **1-Bed Patient Room** - 1-bed patient rooms are provided for better infection control, increased patient privacy, and more effective patient treatment. 73% of each unit's beds should be in 1-bed rooms, including isolation rooms. The balance should be 2-bed rooms. SCI/D patient rooms must be larger than medical / surgical patient rooms. This additional square footage allows for wheelchair turning space as well as adequate space for patient transfer on / off lift devices. Ceiling height should be sufficient to accommodate requirements for lift / transfer devices. (See Guide Plate No. 1)
3. **2-Bed Patient Room** - The 2-bed patient room, when part of the program of care, may be effective for sustaining care SCI/D patients in terms of interaction between patients sharing the room. (See Figures 1.4 and 1.5).

![Figure 1.4 Two-Bed Patient Room](image)

Ceiling height should be sufficient to accommodate requirements. (See Guide Plate No. 3.)

![Figure 1.5 Two-bed Patient Room w/ Separate Toilets](image)

4. **Private Litter Bath** - To accommodate assistance in the toileting and showering for SCI/D patients, the private litter baths must be substantially larger than standard bathrooms. (See Figure 1.6).

![Figure 1.6 Wide Opening to Private Litter Bath](image)

Separate bathrooms for semi-private rooms are provided for infection control. (See Figure 1.5).

The ceiling lift system used in the patient bedroom is extended to the private litter bath to provide mobility for patient with staff assistance (See Figure 1.7 and Guide Plate No. 4).

![Figure 1.7 Ceiling Lift Transition to Private Litter Bath](image)
5. **Patient Care Unit Support** - Patients are expected to spend a considerable amount of time outside the individual patient room engaged in therapies and other activities that assist in the care process. (See Figure 1.8).

![Figure 1.8 Casual Outdoor Seating Space](image)

*Figure 1.8 Casual Outdoor Seating Space*

*SCI/D Center*

*VAMC, Hines, IL*

From a Programming and Planning standpoint, the patient care unit support areas include square footages for patient activities as well as work space for SCI/D Center staff. (See Figure 1.9).

![Figure 1.9 On-Unit Staff Work Area](image)

*Figure 1.9 On-Unit Staff Work Area*

*SCI/D Center*

*VAMC Cleveland, OH*

6. **Staff or Nurse Station** - The nurse’s station is at the center of the patient care unit. There should be ample space for every staff person that needs to be accommodated at any one time.

![Figure 1.10 Staff or Nurse Station](image)

*Figure 1.10 Staff or Nurse Station*

*SCI/D Clinic*

*VAMC Augusta, GA*

For an example of a nurses’ station, (See Guide Plate No.6).

7. **Nourishment Kitchen** - The nourishment kitchen is accessed directly by patients and by staff and caregivers for patient needs. Typical equipment and layout are shown in Guide Plate No.7.

8. **Dayroom** - The dayroom serves an important socialization function in SCI/D patient care. Here patients visit with family and other patients and engage in unsupervised activities. (See Guide Plate No.11).

9. **Dining Room/Serving** - This room includes space for dining and a service line for meal selection and serving. Patients eat lunch and dinner here while breakfast is typically consumed in the patient room. The room must include adequate space needed for circulation between tables. (See Guide Plate No.12).
10. **Multipurpose Room** - This room accommodates a wide variety of recreational activities including adaptive games, traditional table games, as well as suitable arts and crafts. Working with recreation therapists, patients learn to use adaptive equipment to develop/maintain manual dexterity. (See Guide Plate No.13).

The room is used also by patients for self-directed activities. Ceiling mounted tables may be raised to permit other large group activities or sports requiring open floor space. (See Figure 1.11).

![Figure 1.11](image1)

**Figure 1.11**
*Suspended Tables in Recreation Room*
VA Hines SCI/DC
Chicago, IL

11. **Physical/Occupational Therapy** - Physical therapy concentrates on gross neuromuscular and skeletal activity. Physical therapy components are treatment areas and a gymnasium configured to accommodate portable equipment. This may include mats, platforms, gait training, parallel bars, and weights, as well as other resistive equipment and orthotic and prosthetic training services (See Figure 1.12).

![Figure 1.12](image2)

**Figure 1.12**
*Physical Therapy Room*
SCI/D Center
Hines, IL

Occupational therapy focuses on strengthening and optimizing a patient’s independence while concentrating on finer physical movement. Driver’s training for example is an important OT element.

Both simulated and actual training are to be included. Additional activities may also include vocational training with special adaptive equipment such as computers and telephones. (See Guide Plate 33).

12. **Kinesiotherapy** - SCI/D Centers may choose to include a separate space for kinesiotherapy or it may be combined with PT/OT. Kinesiotherapy combines exercise and education to motivate and assist patients in maintaining physical skills. Previously called Corrective Therapy, kinesiology focuses on large motor exercises and activities. (See Guide Plate No. 32).

13. **Aquatic Therapy** - A therapeutic/exercise pool is important part of the initial therapy for acute SCI/D patients.
Therapy pools allow patients to move and exercise while suspended in water, thus reducing the impact of body weight during therapy. Self-contained aquatic therapy pools should allow adequate space for several patients with trained staff. (See Guide Plate No.16).

The SCI patient requires 92°F - 93°F water temperature, while the MS patient requires 83°F - 84°F water temperature. The pool equipment should be designed to accommodate quick water temperature change, where both patient types can use the same pool on a given day based on schedule.

14. **Activities of Daily Living (ADL)** - These are activities that individuals need to master order to live independently.

The activities include bathing, physical ambulation, grooming, dressing, eating, and toileting. ADL facilities provide a mock kitchen and bathroom arrangement. (See Figure 1.13).

This space may be combined with PT/OT area. (See Guide Plate No.15).

15. **Storage** - Adequate storage is a very important concept for the SCI/D Center. Substantial amounts of space, in strategic locations are needed to allow staff access to the bulky items of patient equipment, and medical supplies.

16. **Clinics** - Spinal Cord Injury/Disorders Centers include outpatient clinic facilities for detection and treatment of genitourinary problems and conditions, Spinal Cord Injury/Disorders Centers include outpatient clinic facilities for detection and treatment of genitourinary problems and other conditions, as well as yearly patient evaluations. These facilities are used by inpatients also. Other specialized facilities are located here, while additional specialized outpatient needs of SCI/D patients are met in the Medical Center Specialty Clinics.

17. **Exam/Treatment Room** - Exam rooms for SCI/D patients must accommodate patients on a gurney, which requires a larger space than the normal exam/treatment room. These rooms should also include ceiling lifts. (See Figure 1.14 and Guide Plate No.22).
18. **Urodynamics Lab** - Urodynamics Labs are used for cystoscopy exams and procedures and optionally, for lithotripsy. Portable/mobile equipment may assist in allowing space to be used for several purposes, provided adjacent storage space is available to park equipment when not in use. (See Guide Plate No.23a and 23b).

Prior to discharge, the patient, and oftentimes a caregiver, will spend a pre-ordained amount of time in the apartment, in order to assess the patient’s attainment of sufficient skills to live in the home environment. (See Figure 1.16 and 1.17; See Guide Plate 28).

![Urodynamics Lab](image1.png)

**Figure 1.15**
**Urodynamics Lab**  
VAMC SCI/D Center  
Tampa, FL

19. **Home Environmental Learning** – The purpose of this suite of rooms is to teach and promote independence for the SCI/D patient who is transitioning from the Center setting to the home environment.

![Home Environment Learning-Bathroom](image2.png)

**Figure 1.16**  
**Home Environment Learning-Bathroom**  
SCI/D Center  
VAMC Tampa, FL

1.3 **Relationship and Flow Diagrams**

The SCI/D Center is always located within or adjacent to a Medical Center and is integrally related. (See Figure 1.18).

Medical care delivery and emergency support require close proximity. Service traffic from Medical Center departments enables the SCI/D Center to be supplied for meals, linen, and medical supplies, as well as to remove trash, hazardous waste, and soiled materials. (See Figure 1.19).

The flow of SCI/D inpatients to areas outside the patient unit is substantial and encouraged by staff. It is important to provide patients in the SCI/D Center a secure environment with controlled access from the medical center to prevent persons not associated with the SCI/D unit from entering the area.

![Figure 1.17](image3.png)

**Figure 1.17**  
**Home Environment Learning-Kitchen**  
SCI/D Center  
VAMC Tampa, FL
Also, patient traffic is required to allow SCI/D patients access to diagnostic services and other Medical Center functions. (See Figure 1.20).

Outpatients, seen in the SCI/D Center, typically arrive by private transport and also may access Medical Center services and specialty clinics. (See Figure 1.21)

1.4 Therapy Relationship Concept Diagram

One concept for arranging elements of therapy is to organize them centrally around staff charting. (See figure 1.22). Co- treatment of patients is supported by shared space.

1.5 Anthropometrics

SCI/D patient using wheelchairs have special requirements to enable independence (See Figures 1.23, 1.24 and 1.25).

SCI/D patients who use prone gurneys have special requirements to enable independence (See Figures 1.26 and 1.27).

SCI/D patients in wheelchairs use specialized techniques for toilet transfer. One option is portrayed. (See Figures 1.28, 1.29 and 1.30).
1.3 Relationship and Flow Diagrams

Figure 1.18
Spinal Cord Injury/Disorders Center Relationship Diagram

NTS

LEGEND:
- MAIN ENTRY
- ACCESS
- CIRCULATION
Figure 1.19
Spinal Cord Injury/Disorders Center Service Traffic Flow Diagram
NTS
Figure 1.20
Spinal Cord Injury/Disorders Center
Inpatient Traffic Flow Diagram
NTS
Figure 1.21
Spinal Cord Injury/Disorders Center
Outpatient Traffic Flow Diagram
NTS

LEGEND:
- MAIN ENTRY
- ACCESS
- CIRCULATION
1.4 Therapy Relationship Concept Diagram

Figure 1.22
Spinal Cord Injury/Disorders Center Therapy Relationship Concept Plan
NTS
1.5 Anthropometrics

Typical Wheelchair & Reach Dimensions

Figure 1.23

48" (1219 mm) MAXIMUM SIDE REACH / shelves
46" (1168 mm) MAXIMUM SIDE REACH / counter
29" (736 mm) CHAIR ARMREST LEVEL / counters, tables
27" (685 mm) THIGH LEVEL / tables, sinks, lavatories, work area
24" (609 mm) COUNTER
21" (533 mm) SHELVES
20" (508 mm) CHAIR SEAT LEVEL / toilets, showers, baths
12" (304 mm) DOWNWARD REACH / shelves, outlets
9" (228 mm) FOOT HEIGHT / toe recesses

Figure 1.24

48" (1219 mm) CLEAR FLOOR SPACE
2'-5" (762 mm) WHEELCHAIR LENGTH
22" (558 mm) REACH AT 4'-0" (1219 mm) ABOVE FLOOR
31" (787 mm) REACH RANGE AT 3'-6" (1066 mm) ABOVE FLOOR

Figure 1.25

48" (1219 mm) FORWARD VERTICAL REACH / switches, shelves
41" (1041 mm) SHOULDER LEVEL
36" (914 mm) PUSH HANDLE HEIGHT
27" (685 mm) ELBOW LEVEL / counters, tables
15" (381 mm) KNUCKLE LEVEL / shelves, electric outlets

EXTENDED LENGTH = 52" (1320 mm)
Typical Prone Gurney/Self-Propelled Litter & Reach Dimensions

Figure 1.26

Figure 1.27
Toilet Transfer Techniques

Figure 1.28
Takes Transfer Position
Remove Armrest, Sets Brakes

Figure 1.29
Transfers

Figure 1.30
Position on Toilet
2. Technical Criteria

SPINAL CORD INJURY/DISORDERS CENTER
2. **TECHNICAL CRITERIA**

The extent of changes from the 2008 manual to the 2011 version are limited to the HVAC section 2.3.2.

### 2.1 Codes, Standards and Executive Orders

#### 2.1.1 National Codes and References

The Department of Veterans Affairs requires consultants to use the latest editions of codes and standards for all projects. Among the required codes and standards are:

2. Occupational, Safety and Health Administration (OSHA) standards.
10. Provisions for Construction and Safety Signs, stated in General Requirements, Section 01 00 00 of the VA Master Construction Specification.

The current profiles of VA clients indicate that a high percentage of patients require assistance in activities of daily living such as toileting and showering. The VA Barrier Free Supplement PG-18-13 establishes requirements, which differ from those of UFAS. The more stringent requirement is to be followed. It is recommended that facilities adhere to the requirements of PG-18-13, and provide accessibility in 100% of bedrooms and patient toilets designed to accommodate Spinal Cord Injury/Disorders Veterans.
Typical staff assisted activities for veterans include transportation, toileting, bathing, showering, and transfer to and from wheelchairs and beds. Frequent use of lift devices is also required.

There is departure from ADA and UFAS requirements regarding the turning space. Patients are not always successful in turning within a 5'-0" (1524 mm) diameter circle. Therefore, 5'-6" [1676 mm] minimum diameter clear area is recommended.

This Design Guide recommends departures from the ADA, UFAS, IBC, and VA PG-18-13 Barrier Free standards where indicated for SCI/D Patients, and is consistent with ADAAG 9.3.2 Equivalent Facilitation.

### 2.1.2 Local Codes and References

VA is not generally subject to local code enforcement procedures, such as drawing reviews, building permits, inspections, fees, etc. Therefore, the VA functions as the Authority Having Jurisdiction (AHJ) for all VA facilities and projects. State Veterans Homes (SVH) and other nursing homes serving United States Veterans are not VA facilities and must comply with local codes and enforcement procedures.

### 2.1.3 HIPAA

The Healthcare Insurance Portability and Accountability Act of 1996 (HIPAA) has reinforced and extended NHRA emphasis on privacy and dignity, to include audible as well as visual privacy. This is especially the case with respect to protection of each individual’s medical records, private information and communications. This law protects all conversations between patients and admission interviewers, caregivers, nurses, physicians and families. Serious breaches of those rights to privacy are subject to Federal litigation.

HIPAA currently impacts patient rooms in terms of audible privacy in standard two-person room layouts where only a cubicle curtain separates patient beds. Patient unit layouts now consider the juxtaposition of rooms and spaces, which may limit sounds of private conversations from being overheard. Planning of staff stations, reception desks, conference rooms, offices, treatment, therapy rooms and other spaces where exposed private records may be seen and conversations overheard by unauthorized persons, shall also consider privacy during design.

### 2.1.4 Life Safety

Spinal Cord Injury/Disorders life safety issues that require attention include evacuation standards and disaster planning such as the following:

1. **Evacuation Standards** - Horizontal evacuation plans are required for SCI/D Centers Therefore, all new SCI/D facilities must be designed at grade with direct horizontal access to the exterior.

   The 2006 Edition of the IBC states that patient units may not be locked-down for any reason, regardless of the circumstances. Thus, delayed egress locking systems are not permitted in jurisdictions that have adopted IBC 2006.
2. Disaster Planning - Situations can arise in which there may not be any place to evacuate patients for days, weeks, or months. In those cases, emergency power will be required to maintain food service, heating, ventilating, vertical transportation systems, and life safety systems. Also required is emergency power to ventilators and low air loss beds.

This is especially important to keep a frail or life support dependant patient population reasonably comfortable and safe. Coordinate emergency plans with the medical center.

3. Fire Rescue & Utility Company Coordination - In general, local fire department officials and utility companies shall be included in major design and planning projects such as an SCI/D Center. The inclusive involvement and early coordination with these organizations will enhance design development of the design decisions and will mitigate problems related to fire rescue, power, water, service and communications.
2.2 Site Considerations

2.2.1 Introduction

Site analysis and planning are critical to the success of a project. The design team shall perform several preliminary analyses that will affect the final design of the SCI/D Center. Several site related factors required for a Spinal Cord Injury/Disorders Center are covered in this section and are to be considered as essential tools for planning the facility. Each project designer shall consider the project specifics that include, but are not limited to:

- Site Configuration and Size
- Availability of Parking adjacent to a Dedicated Entrance
- Access to VA Medical Center
- Site Topography
- Regional and Climatic Factors
- Utilities
- Outdoor Access

2.2.2 Planning

When planning a Spinal Cord Injury/Disorders Center facility, consider that there are multiple users including the patients, staff, visitors, maintenance personnel, service providers, emergency crews and utility workers. The completed site shall include:

- Dedicated Accessible Parking for Patients
- Additional Parking for Staff and Visitors
- Access for Emergency Vehicles
- Landscape Features and Outdoor Courtyards
- Utility and Service Access

1. **Generic Site Plan** - The generic site plan provided in this section, (See Figure 2.1), depicts a hypothetical solution for a 30 bed Spinal Cord Injury/Disorders Center. The projections and assumptions for this plan are for reference purposes only, and are not meant to suggest a solution for a specific design project. Features of this generic site are similar to those mentioned in this section.
2. **Parking** - When planning for SCI/D Center parking areas, a dedicated lot providing 1.5 spaces per bed are required. Accessible parking spaces in immediate proximity to the SCI/D Center entrance are required.

### 2.2.3 Topography

Topographical influences may affect the orientation of access points to the facility such as entrance, service, egress, parking, perimeter road for emergency, retaining walls, berms, landscaping and general location of the structure on the site. (See Figure 2.2). During the planning phase of the project, designers should consider the impact that site topography will have on the design.

Walks, ramps, and roadways are features that are impacted by site topography. During the initial site survey, a physical review is recommended.

Where ever possible, at grade, access to the Center is desired. On grade access is required of new SCI/D Centers

### 2.2.4 Zoning

Unlike many general aspects of site design, such as roadways and parking aisles, zoning is site specific. Preliminary plans shall not advance without performing a zoning analysis.

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**Figure 2.2**

*Generic Site Section: Single-level SCI/D Center with Link to Medical Center*

NTS
In the case of government-owned property, it is important to consider the zoning and adjacencies for compatibility with neighboring buildings. Factors for zoning include:

- Height
- Lot Occupancy
- Number of Stories
- Parking
- Green Space
- Historic District
- Floor Area Ratio (F.A.R.)
- Setbacks
- Use Groups

2.2.5 Medical Center Proximity

Spinal Cord Injury/Disorders Centers shall be situated directly within the proposed or existing nursing tower (preferred) or in immediate proximity to the medical center facility. SCI/D Centers must be physically connected to the VAMC by an accessible route. This proximity will allow for emergency medical support and access to diagnostic studies, surgery, and intensive care service. Site access and roadways of an adjoining existing medical center are examples where a new SCI/D may be able to utilize in-place vehicular pathways.

2.2.6 Roadways

1. **Site Access** - The location of curb cuts and aprons shall be planned in accordance with local zoning code or authority having jurisdiction.

2. **On-Site Roadways** - Width of roads shall accommodate traffic in each direction. A path from the site entrance to entry of the Center shall be logical and easily identifiable.

3. **Parking Areas** - Site roadways to and from parking areas shall be capable of accommodating two-way traffic. Proper signage and direction arrows may enhance clarity of destinations and paths.

4. **Emergency Roadways** - Emergency access is required on the grounds of the Center. This access relates to ambulance, fire and rescue, law enforcement and other emergency related vehicles. The width of the roadway for emergency purposes shall be maintained and unobstructed at all times.

Emergency roadway design shall accommodate a fire truck and enable emergency vehicles to access the entire site around the Center. At a minimum, access to every part of the site and facility for emergency vehicles must be provided.

2.2.7 Site Signage

Locate signage on the site or along roadways for visitors, staff and service accommodations. (See Figure 2.3). Suggestions for site signage include:

- Directional Traffic (one-way)
- Restrictions
- Parking
- Deliveries
- Passenger Pick-up
- Entrance to Site
- Entrance to SCI/D Center
- Center Identification
2.2.8 Shared Amenities

The nature of the site with respect to location and co-existence with other facilities could influence several aspects of SCI/D Center amenities, such as:

- Siting of Facility
- Orientation of Entrance
- Location of Services
- Access to Site
- Availability of Utilities

If physically adjoined with the Medical Center, this physical connection may require the use of a common service road or a common entrance to the site in general. Independent access to power, communications, gas, water and other utilities is preferable, thereby enabling the Center to remain on line in the event of outages in other areas on the shared campus. Emergency power provisions for the facility shall be a part of the planned program.

The advantage of sharing campus amenities include, but are not limited to:

- Access to Site
- Services and Utilities
- Possibility for Use of Existing On-Site Features
- Common Use Buildings
- Medical Facilities
- Outdoor Amenities

Many of these items translate into cost savings over the life of the facility. These and other shared amenities significantly affect project costs.

2.2.9 Utility Access

Site utilities are critical to successful operations. Among the utilities and utility related components requiring site accesses are:

- Electrical Service Transformers
- Communications Services
- Gas Lines
- Storm/Water Management
- Water and Sewer Utility
- Oil Service (if applicable)
- Emergency Power (including fuel storage)
- Power and Communications

Where possible, dual feeds for some utilities shall be provided. The most pronounced of these would be power sources. An attempt shall be made to attain feeds to the facility from different substations.
2.2.10 Services

In a Spinal Cord Injury/Disorders Center attached to a Medical Center, building services are typically provided by the Medical Center and transported to the SCI/D Center. Services to be considered for SCI/D Centers, as referred to in this section include, but are not limited to:

- Loading Docks
- Shipping/Receiving Areas
- Morgue Service Areas
- Trash Areas
- Service Ramps
- Utility Connectors

2.2.11 Landscaping (Natural & Artificial)

While planning for the landscaping of the site, consider indigenous vegetation whether introduced or replaced because of the project. Additional considerations include requirements of a shared site or other site-specific covenants that may affect the design.

1. **Designed Features** - Artificial features that relate to the site include:
   - Trees
   - Shrubs
   - Grass
   - Gardens (See Figure 2.5)
   - Fountains
   - Fences
   - Plazas

2. **Natural Features** - Landscape features provide a major service to any site or campus (See Figure 2.4). Natural features may include:
   
   - Rock Outcroppings
   - Water Features (lakes, streams, ponds, etc.)
   - Large Trees
   - Fields
   - Vistas

Where possible, these features shall be considered during the building and site design phases of the project. Just as a designer considers the topography during the planning phases, so shall the natural aspects of a site be considered.
2.2.12 Covered Entry

As part of the building and site design, provisions for a covered entrance at the primary access point to the SCI/D Center are required. (See Figure 2.6).

Provide enough covered area to accommodate two vehicles, one behind the other. The width of the roadway or motor court under the covering also shall be designed to accommodate an accessible van to park at the entrance while allowing a separate vehicle to pass.

It is not uncommon for emergency vehicles to access a SCI/D Center. Therefore, height of covered entrance is to be designed to allow clearance for large emergency vehicles.

The covered entrance is also an area where visitors and patients may relax and sit. Ample space for seating and circulation shall be planned near the entrance to the SCI/D Center.

Figure 2.6
Covered Main Entrance and Drop-off
SCI/D Center
VAMC Hines, IL
2.3 Systems Criteria

2.3.1 General

All systems and infrastructure criteria shall conform to and comply with the most current version of the Department of Veterans Affairs Design Manuals, VA Design and Construction Procedures, VA Master Construction Specifications, and VA Standard Details, where applicable. Deviations from the VA guidelines may be allowed, provided prior approval is obtained from the VA CFM. Where specific VA requirements are not available or indicated in this document, design criteria from industry standards such as the National Standard Plumbing Code (NSPC), the National Fire Protection Association (NFPA), ASHRAE, National Electrical Code (NEC), DOE or similar reference guides shall be submitted to the VA for review and approval.

2.3.2 Heating, Ventilating and Air Conditioning (HVAC)

1. **Energy Economic Analysis** - The HVAC system shall be selected based on an economic analysis performed in compliance with Public Law 95-619 to determine the most cost effective system for the building over a 20-year life cycle.

2. **Energy Conservation** - Energy conservation shall be emphasized in all aspects of the building design. The building shall meet the requirements of the most current version of ASHRAE Standard 90.1 and the DOE regulations. These energy standards apply to HVAC systems as well as the building envelope, service water heating, lighting and energy management. Certification shall be provided to the VA that the building is designed in compliance with the applicable energy conservation provisions.

3. **Outdoor Design Conditions** – Outdoor design conditions shall be based on the most current edition of the ASHRAE Fundamentals Handbook and the VA HVAC Design Manual for Hospital Projects. Summer design conditions shall be based on the 0.4 percent dry-bulb (Column 1a) and 0.4 wet-bulb (Column 3) temperatures for 100% outdoor air units and 1 percent dry-bulb and wet-bulb temperatures (Column 2a) for minimum outdoor air units. Where cooling tower is used, tower selection shall be based on 1 F (0.6 C) wet-bulb temperature higher than 0.4 percent wet-bulb temperature (Column 3). Winter design conditions shall be based on the 99.6 percent dry-bulb temperature (Column 1b). The A/E may recommend solutions for more severe outdoor climatic conditions for review and approval by the VA.

4. **Indoor Design Conditions** - Indoor design conditions for each space shall be maintained throughout the year. Interior design conditions for all spaces shall be maintained in accordance with the most current version of ASHRAE Standard 170 and the VA HVAC Design Manual for Hospital Projects.

5. **Supply Air Requirements** - The supply air volume shall be established to meet the cooling load requirements of the occupied space. The supply volume shall, however,
be modified to meet – (a) minimum air change requirements, or (b) maintain proper space pressurization relative to room exhaust requirements. For all air systems, the supply air minimum airflows shall be established to maintain the minimum air change rates in accordance with the VA HVAC Design Manual. In addition, enhanced filtration, comprising of MERV 7 and MERV 11 pre-filters and MERV 14 after-filters shall be provided.

6. **Outdoor Air Requirements** - The HVAC design shall provide each space with not less than the minimum recommended quantity of ventilation air as indicated in the most current version of ASHRAE Standard 62 and 170. In addition to the ASHRAE requirements, provide the minimum air changes of outside air in accordance with the VA HVAC Design Manual for Hospital Projects.

7. **Exhaust Air Requirements** - The HVAC design shall provide exhaust air to spaces to control the transfer of odors and provide proper room pressurization. At a minimum, exhaust air and pressurization shall be provided as indicated in the VA HVAC Design Manual for Hospital Projects.

8. **Noise Criteria** - The HVAC design shall provide resulting sound levels in occupied spaces not to exceed the levels shown in the VA HVAC Design Manual for Hospital Projects.

9. **Seismic Requirements** - Where applicable, earthquake resistive design shall comply with the most current version of VA Handbook H-18-8, Seismic Design Requirements and the International Building Code. Seismic design also shall conform to the most current versions of SMACNA guidelines.


   Perimeter heat: Provide perimeter heat for bedrooms and other perimeter spaces as outlined in the HVAC Design Manual for Hospital Projects.

11. **Back-up Power** - Back-up power shall be provided for the following mechanical equipment/systems in accordance with NEC Article 517 and the VA Electrical Design Manual for Hospital Projects.

   - All heating water system components (pumps, condensate return pumps, boilers, etc.) where outdoor design conditions are below 20 degrees F (-6 degrees C)
   - Automatic temperature control system and components
   - Exhaust system serving the isolation suite
   - Air Handling Units

12. **Temperature Control Criteria** - General: The automatic temperature controls shall be direct digital control (DDC) with electric actuation of valves, dampers, terminal units, etc. A dedicated stand-alone building management system (BMS) or engineering control center (ECC) shall be provided. The ECC shall be
capable of being connected to an existing or future ECC at the Medical Center, if applicable.

**Room Temperature Control:** Provide room temperature controls as outlined in the HVAC Design Manual for Hospital Projects.

### 2.3.3 Plumbing

1. **Domestic Water Systems** - Water service shall be extended to the building to serve the domestic and fire protection systems. Domestic water shall be distributed to the plumbing fixtures and equipment. The system shall maintain a maximum velocity and pressure in accordance with the National Standard Plumbing Code and provide water hammer arrestors in accordance with ASSE 1010 for sealed wall installations without access panels. Size and locate arrestors per the Plumbing Drainage Institute (PDI). Provide wall hydrants on each exterior wall, not to exceed 200 feet (60 m) apart.

   A domestic booster pump system shall be provided where street pressure is inadequate. Domestic booster system shall include three pumps. One pump shall be sized for one-third the total demand and the two remaining pumps shall be sized for two-thirds of the total demand. Provide alternating control for the pumps as well as a pressurized storage tank. Emergency power shall be provided for the domestic booster system.

   Provide duplex shell and steam coil central water heaters, with the capacity of generating the flow demand at 140 degrees F (60 degrees C), with each heater sized to supply 75% of the demand. The heater discharge temperature, however, shall be set for 130 degrees F (54 degrees C). A hot water re-circulating system shall be provided. The domestic water heating system also shall be in accordance with the requirements of the most current version of ASHRAE Standard 90.1.

2. **Plumbing Fixtures** - Plumbing fixture types and flow restrictors shall be in accordance with the current version of the National Standard Plumbing Code. In addition, plumbing fixtures, where required, shall comply with the current version of the Americans with Disabilities Act (ADA) and as per state and Federal requirements.

3. **Sanitary and Storm Drainage Systems** - Provide an adequate number of sanitary and storm drainage connections from the building. Provide a minimum of two connections from each building with a maximum sanitary sewer size of 12-inch (300 mm). One sanitary connection may be provided if the connection size is six-inch (150 mm) or less. Maximum allowable storm drain size is 15-inch (375 mm). Sizing shall be based on the most current version of the National Standard Plumbing Code. Kitchen waste, where applicable, shall be provided with a grease removal system.

4. **Medical Gas and Vacuum Systems** - Medical compressed air, oxygen and medical vacuum systems shall be
provided in accordance with the most current versions of NFPA 50 and 99 and the Compressed Gas Association Standards. Air, oxygen and vacuum requirements may range from 10 to 100% of the beds. Coordinate project specific requirements with the VA.

5. **Seismic Requirements** - Where applicable, earthquake resistive design shall comply with the most current version of VA Handbook H-18-8, Seismic Design Requirements and the IBC. Seismic design also shall conform to the most current versions of SMACNA guidelines.

### 2.3.4 Electrical

1. **Electrical Closets** - Provide separate electrical closets with clearances in accordance with the requirements of the National Electrical Code (NEC). In buildings having multiple floors, the electrical closets shall be stacked.

2. **Public Utility Requirements** - Contact servicing agencies and comply with their requirements for electric services. Make necessary submittals to utility companies for approval of equipment to be installed.

3. **Seismic Restraints** - Requirements shall be as specified by local codes and ordinances. Work shall comply with detailed provisions made by local authorities having plan check and inspection jurisdiction.

4. **Electrical System Characteristics** - Contact the local electric utility company for the type and availability of service. When possible, multiple utility feeders from separate utility substations shall be provided for service redundancy.

Three phase, 480/277 volt or 208/120 volt secondary systems are acceptable. A utility owned, pad mounted transformer is preferred for these services. Service entrance equipment shall comply with the VA Electrical Design Manual for Hospital Projects.

5. **Back-up/Emergency Power** - A generator shall be provided as an alternate electrical source of power for use during an interruption of the normal electric supply. Where stored fuel is required, storage capacity shall permit continuous operation for at least 24 hours. VA requirements will be applicable for the appropriate storage capacity.

Generator back-up and emergency power shall be provided in accordance with the NEC, Article 517 and the VA Electrical Design Manual for Hospital Projects. Specific requirements such as the specifying of ventilators with an integral “Ventilator Failure Alarm” shall be verified with the VA on a per project basis.

6. **Lighting** - Provide lighting levels in designated spaces per Appendix A of the VA Electrical Design Manual. Use the Illuminating Engineering Society (IES) standards for all areas not covered by Appendix A. Provide high efficiency fixtures with energy saving control and switching scenarios. Closely coordinate light fixture types, layout and switching configuration/location for bedrooms,
exam room and surgery lighting. Lighting shall comply with the VA Electrical Design Manual for Hospital Projects.

7. **Receptacles** - Provide ‘hospital grade’ duplex-grounded receptacles. Provide no more than 6 duplex receptacles on a single circuit. Electrical receptacle cover plates or electrical supplied from the emergency system shall be distinctively colored or marked for identification. Ground fault interrupters shall comply with NFPA 70. Receptacles shall comply with the VA Electrical Design Manual for Hospital Projects.

8. **Conduits** - Conduits shall be rigid where used in damp or exposed locations, or where specifically required by the NEC. PVC conduits shall be used where routed underground. Electrical metallic tubing shall be used in dry concealed locations and in furred, ceiling spaces. Flexible conduits shall be used for final connections to recessed lighting fixtures, motor driven equipment and vibrating equipment. PVC Schedule 40 conduits shall be used for concrete encased feeders. PVC Schedule 80 conduits shall be used for direct buried branch circuits. Conduit shall not be used as a ground path; all electrical circuits shall contain a ground wire. Minimum conduit size shall be 0.5 inches (13 mm).

9. **Conductors** - Provide copper conductors with 600-volt insulation for low voltage distribution. Conductors No. 8 and larger shall be stranded, type THWN. Smaller conductors shall be a solid type THHN/THWN. Aluminum conductors are not permitted. Conductors for use in high temperature locations shall be insulated as required by the NEC. The minimum size of power conductors shall be No. 12.

10. **Nurse Call System** - Provide a nurse call system, including a call device at each bed location. An emergency call system shall be provided at each patient toilet, bath, and shower room. This system shall be accessible to a patient lying on the floor. Alarm capabilities should include activation for patients on ventilators in pulmonary distress.

Design the emergency call system so that a call activated by a patient will initiate a signal distinct from the regular staff call system and that can be turned off only at the patient’s location. The signal shall activate an enunciator panel at the staff work area or other appropriate location, and either a visual signal in the corridor or at the patient’s door.

Wireless technologies for staff shall be investigated along with hard wired or integrated systems, to meet the needs of individual facilities.

11. **Prefabri cated Bedside Patient Unit (PBPU)** - Provide PBPU style as required for a given bed area. All PBPU’s shall be surface mounted on the patient’s headwall. All installations in a one-bed room configuration shall be on the corridor side of the bed. Installations in multi-bed areas shall be between the bed
pairs when even bed quantities are provided. If an odd number of beds are provided, apply the one-bed room installation concept. All work shall comply with the VA Electrical Design Manual for Hospital Projects.

2.4 Programming And Space Criteria

The Following information is excerpted from Chapter 104 of the VA Space Planning Criteria for use in this Design Guide. For more detailed planning & programming information, please refer to the Department of Veteran’s Affairs Technical Information Library (TIL) on http://www.cfm.va.gov/til the VA’s website.

2.4.1 Space Listing

The Spinal Cord Injury/Disorders Center is organized in four Functional groups: A. Patient Care Units; B. Patient Care Unit Support; C. Clinics and Therapy; D. Administration. Note that all square footages included herein are indicated as net square footage (NSF) area numbers. As such, the listings of square footage and subsequent illustrations require the addition of the respective department gross square footage (DGSF) multipliers.

For the typical rooms and sizes, for each SCI/D Center type (Acute Care, Long Term Care or Free-standing Outpatient Clinics) refer to Space Allocation Matrices, located in Appendix B of this Design Guide.

Per VA Space Planning Criteria, certain patient load / workload related spaces may change in size, based on date entered into the formulas. Where shown in the Guideplates, these spaces are typically sized for optimum graphical representation and minimum dimensions / clearances are indicated.

The Guideplates shown in Chapters 3 and 4 of this Design Guide are graphical representations of selected room types that illustrate the integration of space, components, systems and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library (TIL).

A. Patient Care Units

1. Acute Care One-Bed Room (BRMS1)...................................210 NSF (19.5 NSM)
2. Acute Care Isolation (BRIT1)/ Anteroom (BRAR1).................................210 NSF (19.5 NSM)/ 75 NSF (7.0 NSM)
3. Acute Care Two-Bed Room (BRMS2)...................................450 NSF (41.8 NSM)
4. Patient (Litter) Bathroom (TLTS1).............................................120 NSF (11.2 NSM)
5. Acute Respiratory One-Bed Room (BRMS1).........................270 NSF (25.1 NSM)
B. Patient Care Unit Support

1. Entrance/Waiting (WRC01) ................................................. 200 NSF (18.6 NSM)
2. Information Desk (RECP3) .................................................. 100 NSF (9.3 NSM)
3. Consultation Room (CRA02) ................................................ 100 NSF (9.3 NSM)
4. Nurse Station (NSTA1) ...................................................... 300 NSF (27.9 NSM)
5. Patient Charting (OFD01) .................................................. 150 NSF (13.9 NSM)
6. Ward Clerk (OFA01/OFA02) ............................................ 80 NSF (7.5 NSM)
7. Medication Room (MEDP1) ................................................ 120 NSF (11.2 NSM)
8. Conference/Classroom (CRA02) ...................................... 300 NSF (27.9 NSM)
9. Nurse Supervisor’s Office (OFD01) ................................. 130 NSF (12.1 NSM)
10. Staff Lounge (SL001); or Staff Locker Room (LR001); or Staff Shower (TLTS1) .................. 80 NSF (7.5 NSM)
11. Staff Toilet (TLTU1)/Public Toilet (TLTU1) .................... 60 NSF (5.6 NSM)
12. Day Room/Lounge (DAYR1) ........................................... 400 NSF (37.2 NSM)
13. Patient Education (OFD03) ........................................... 250 NSF (23.2 NSM)
14. Multipurpose Room (XXXXC) ........................................ 800 NSF (74.3 NSM)
15. Multipurpose/Activities Storage (OFD01) ..................... 100 NSF (9.3 NSM)
16. Resident Dining/Serving (FSCD1) ................................. 1600 NSF (148.6 NSM)
17. Patient Toilet (TLTU1) .................................................. 60 NSF (5.6 NSM)
18. Patient Laundry (XXYYC) .............................................. 100 NSF (9.3 NSM)
19. Quiet Room (OFA02) .................................................... 150 NSF (13.9 NSM)
20. Visitor Lounge (WRC02) ................................................ 200 NSF (18.9 NSM)
21. Nourishment Kitchen (NCWD1) .................................... 100 NSF (8.6 NSM)
22. Tubroom (PTWT1) ....................................................... 200 NSF (18.6 NSM)
23. Activities Coordinator Office (OFD01) ......................... 130 NSF (12.1 NSM)
24. Veterans Service Organization Office (OFA01/OFA02); or NSO-PVA Organization Office (OFA01/OFA02) .............. 130 NSF (12.1 NSM)
25. Litter Storage (SRLW1) ................................................. 300 NSF (27.9 NSM)
26. Transfer Equipment Storage (SRE01) .......................... 210 NSF (19.5 NSM)
27. Medical Equipment Storage (SRE01) .......................... 180 NSF (16.8 NSM)
28. Exam/Treatment (TRGM1) .................................................. 180 NSF (16.8 NSM)
29. Hydrotherapy (PTWT1) .................................................. 380 NSF (35.4 NSM)
30. Clean Linen Holding, EMS (LCCL1) .................................. 42 NSF (3.9 NSM)
31. On-Call Bedroom (DUTY1)/ On-Call Toilet and Shower (TLTS1) .......... 120 NSF (11.2 NSM)/ 80 NSF (7.5 NSM)
32. Stretcher/Wheelchair Alcove (SRLW1) .................................. 40 NSF (3.7 NSM)
33. Clean Utility Room (UCCL1)/ Soiled Utility Room (USCL1) .......... 150 NSF (13.9 NSM)/ 120 NSF (11.2 NSM)
34. Clean Linen Storage (LCCL1)/ Soiled Linen Storage (LCSL1) ........... 80 NSF (7.5 NSM)/ 60 NSF (5.6 NSM)
35. Housekeeping Aides’ Closet - HAC (JANC1) .......................... 40 NSF (3.7 NSM)
36. Meditation Room (RAMR1) ............................................... 150 NSF (13.9 NSM)
37. Internet Café (XXXXX) .................................................... 240 NSF (22.3 NSM)
38. Patient Storage (SRPB1) .................................................. 120 NSF (11.2 NSM)

C. Clinics and Therapy
1. Clinician Office (OFD01) .................................................. 130 NSF (12.1 NSM)
2. Clean Utility Room (UCCL1) ............................................... 120 NSF (11.2 NSM)
3. Soiled Utility Room (USCL1) .............................................. 80 NSF (7.5 NSM)
4. Housekeeping Aides’ Closet - HAC (JANC1) .......................... 40 NSF (3.7 NSM)
5. Equipment Storage (SRE01) .............................................. 150 NSF (13.9 NSM)
6. Urodynamics: Cystoscopy (XDCY1) .................................... 500 NSF (46.5 NSM)
7. Urodynamics: Storage and Instrument Cleaning Room (SRS01) ........... 400 NSF (37.2 NSM)
8. Urodynamics: Exam/Treatment Room (EXUD1) ....................... 180 NSF (16.8 NSM)
9. Urodynamics: Recovery Room (RRSS1) ................................ 300 NSF (27.9 NSM)
10. Urodynamics: Dressing Room/Cubicle (DR001) ......................... 100 NSF (9.3 NSM)
11. Urodynamics Patient Shower (TLTS1) ................................... 80 NSF (7.5 NSM)
12. Urologist Office (OFD01) ................................................. 130 NSF (12.1 NSM)
13. Urodynamics: Nurse Station (NSTA1) .................................. 150 NSF (13.9 NSM)
14. Outpatient Urodynamics Clinic Clean Utility Room (UCCL1) ............ 120 NSF (11.2 NSM)
15. Physical Therapy Treatment Clinic (PTES1) ......................... 1850 NSF (171.9 NSM)
16. Kinesiotherapy Treatment Clinic (PTES1) .......................... 1250 NSF (116.9 NSM)
17. Physical Therapy/Kinesiology Therapy -
   60 Beds (PTES1) ................................................................... 3000 NSF (278.7 NSM)
18. Physical Therapy/Kinesiology Therapy -
   30 Beds (PTES1) ................................................................... 1700 NSF (157.9 NSM)
19. Occupational Therapy (OTEV1) ........................................... 800 NSF (74.3 NSM)
20. Activities of Daily Living (OTDL1) ................................. 200 NSF (18.6 NSM)
21. Home Environment Learning (XXYYC) .............................. 660 NSF (61.4 NSM)
22. Horticulture Therapy (XXYYC) ........................................... 150 NSF (13.9 NSM)
23. Therapeutic Pool (PTWT1) .............................................. 2000 NSF (204.3 NSM)
24. Male Dressing Room - Pool (DR001) .............................. 300 NSF (27.9 NSM)
25. Female Dressing Room - Pool (DR001) .............................. 230 NSF (21.4 NSM)
26. Therapist Cubicle (PTCW1) ..................................................... 80 NSF (7.5 NSM)
27. Pharmacy (PHOD1) ............................................................. 160 NSF (14.9 NSM)
28. Exam/Treatment Room (TRGS1) ........................................ 180 NSF (16.8 NSM)
29. Waiting (WRC01)/
   Reception (RECP1) ....................................................... 320 NSF (29.8 NSM)/ 80 NSF (7.5 NSM)
30. Public Toilet (TLTU1)/Patient Toilet (TLTU1) ..................... 60 NSF (5.6 NSM)

D. Administration
1. Public Toilet (TLTU1) ........................................................... 60 NSF (5.6 NSM)
2. Chief of Service Office (OFM03) ............................................ 150 NSF (13.9 NSM)
3. Secretary/Waiting Office (SEC01) ........................................... 120 NSF (11.2 NSM)
4. Psychologist Office (OFDC1); or Social Worker
   Office (OFDC1); or Dietitian Office (OFA01/OFA02) ............... 130 NSF (12.1 NSM)
5. Nurse Administrator Office (OFD01)/ or
   Physician Office (OFD01) .......................................................... 130 NSF (12.1 NSM)
6. Conference Room (CRA02) .................................................. 300 NSF (27.9 NSM)
7. Medical Records/QA (MRS01) ............................................. 150 NSF (13.9 NSM)
8. Clerical Cubicle (OFA03) ....................................................... 80 NSF (7.5 NSM)
9. Administrative Officer Office (OFA01) ................................. 150 NSF (13.9 NSM)
3. Guideplates, Data & RCPs

SPINAL CORD INJURY/DISORDERS CENTER
3. **GUIDEPLATES DATA SHEETS AND REFLECTED CEILING PLANS**

* The extent of changes from the 2008 manual to the 2011 version are limited to minor HVAC changes (temperature, humidity, etc.) found in the HVAC section of the design plates. The architectural and electrical requirements remain the same.

### 3.1 Guideplate Notes and Symbols

#### 3.1.1 Architectural Notes

1. **Applicable Codes:** See Part 2.0, Section 2.1 - Codes, Standards and Executive Orders.

2. All new construction and all renovated sleeping areas shall be fully protected by an automatic sprinkler system. Project-specific conditions may apply that require sprinklering of renovation in non-sleeping areas as well.


4. The datasheets which accompany each Guideplate list equipment in the following format:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>D</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Table 2-1**

The legend for the Equipment Tables is as follows:

**SYMBOL** – From VA Equipment Guide.

**A** - Quantity of equipment in Intensive Rehab/Sustaining Care Nursing Units.

**B** - Quantity of equipment in SCI/D Unit.

**C** - This column is Not Applicable unless indicated.

**D** - This column is Not Applicable unless indicated.

**AI** - Procurement/Installation responsibility.

**DESCRIPTION** – Detailed specification of equipment.

5. When producing architectural drawings for the VA, designers should follow VHA CAD Standard Detail 00000-1.DWG (PG-18-4) which outlines the accepted symbols for designating equipment with regard to accountability as to procurement and installation responsibilities.

6. Provide reinforcement behind automatic door push plates.
3.1.2 Hardware Schedule

All locks and latch sets in the Spinal Cord Injury/Disorders Center are to have Lever Handles similar to Schlage Model 03. Hardware sets correspond to VA Master Construction Specifications, Section 08710, Builder’s Hardware, except as noted*. Refer to Section 08721 for Automatic Door Operators.

<table>
<thead>
<tr>
<th>HW 5</th>
<th>Butts as required</th>
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<tbody>
<tr>
<td></td>
<td>Door Pull</td>
</tr>
<tr>
<td></td>
<td>Push Plate</td>
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<tr>
<td></td>
<td>Closer C02051</td>
</tr>
<tr>
<td></td>
<td>Roller Latch</td>
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<table>
<thead>
<tr>
<th>HW 7</th>
<th>Butts as required</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Latch F01 or F75</td>
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</table>

<table>
<thead>
<tr>
<th>HW 12</th>
<th>Butts as required</th>
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<tbody>
<tr>
<td></td>
<td>Push/Pull plate J300</td>
</tr>
<tr>
<td></td>
<td>Arm pull double base J400</td>
</tr>
<tr>
<td></td>
<td>Closer C02051</td>
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<table>
<thead>
<tr>
<th>HW 13</th>
<th>Butts as required</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lock F07 or F86</td>
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<table>
<thead>
<tr>
<th>HW 14</th>
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<tbody>
<tr>
<td></td>
<td>Lock F02 or F76</td>
</tr>
<tr>
<td></td>
<td>Provide Emergency Key</td>
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<table>
<thead>
<tr>
<th>HW 18</th>
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<tbody>
<tr>
<td></td>
<td>Lock F02 or F76</td>
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<td>Provide Emergency Key</td>
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<table>
<thead>
<tr>
<th>HW 19</th>
<th>Butts as required</th>
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<td></td>
<td>Lock F13 or F82</td>
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<tr>
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<table>
<thead>
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<th>Butts as required</th>
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<td>Closer C02051</td>
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<tr>
<td></td>
<td>Closer C02011</td>
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<table>
<thead>
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<tr>
<td></td>
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<tr>
<td></td>
<td>Closer C02051</td>
</tr>
<tr>
<td></td>
<td>Armor Plate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HW 67</th>
<th>Butts as required</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Lock F17 or E16071</td>
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<tr>
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<td></td>
<td>Push/Pull plate J300</td>
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<tr>
<td></td>
<td>Closer C02051</td>
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</table>

<table>
<thead>
<tr>
<th>HW 69</th>
<th>Butts as required</th>
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<tbody>
<tr>
<td></td>
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<tr>
<td></td>
<td>Door Pull</td>
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<tr>
<td></td>
<td>Push/Pull plate J300</td>
</tr>
<tr>
<td></td>
<td>Closer C02051</td>
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</tbody>
</table>
Armor Plate

HW 82
Butts as required
Lock F17 or E16071
2 Flush bolts
2 Door pulls
2 Push/Pull plates J300
2 Closers C02011
2 Holders C22511
2 Armor Plates

*HW 100
2 Door Pulls J400
for Automatic Door Operator
see Spec. Section 08721
(Horton 8700 series)

*HW 101
2 Door Pulls J400
for Automatic Door Operator
see Spec. Section 08721

HW 106
Offset pivot set C17111
Intermediate pivot C17311
Lock E16071

Door Pull
Push/Pull plate J300
Closer LCN 4010
Armor Plate
Holder C22511

HW 156
Panic Bolt, (Van Duprin 3347 TP x 3347
EO)
delete bottom latch bolt.
for automatic door operator
see Spec. Section 08721

HW 157
Butts as required (Hospital Tip)
Lockset (Unican Lock Co.)
1001 mechanical lock w/ 5 button
combination and ¾” (19mm) throw
latchbolt
Lock E16071 w/ ¾” (19mm) throw
deadbolt
Mount deadlock at 60” (1500mm) to
centerline of strike from finish floor on
this hardware set only
Closer C02011
Flush Bolts: Ives 454 by 12” (300mm)
for pairs of doors

3.1.3 Structural Notes

1. In order to provide a flexible design, allowing for certain range of occupancy
changes in the future, a generalized live load of 80 psf (.039 kg/sq.cm) applied over
the entire SCI/D area should satisfy various combinations of occupancies listed in
this Design Guide.

2. Where occupancy load requirements or concentrated equipment loads exceed the
equivalent generalized live loads, the areas in question shall be designed to meet
the specific conditions.

3. An allowance of 20 psf (.0097 kg/sq.cm) shall be made for partitions on all floor
areas in addition to all other loads.

design requirements.
3.1.4 Electrical Notes

1. Coordinate Electrical requirements with the VA Electrical Design Manual for Hospital Projects, where requirements for Essential Electrical System can be found.

2. Refer to VA Standard Details PG-18-4 for Electrical details, symbols and Abbreviations.

3. While not shown in the SCI/D Design Guide, electrical and communications closets should be provided as per PG-18-3, Topic 8.

3.1.5 HVAC Notes*

1. Coordinate the HVAC requirements with the VA HVAC Design Manual for Hospital Projects, where more detailed information can be found.

2. Location and type and quantity of diffusers, grilles, registers, thermostats, etc., shall be modified to meet project specific requirements. Note that a ceiling radiant panel system would significantly affect the ceiling layout, including the lighting system.

3. Minimum air changes shall be as indicated or higher as determined by cooling loads, exhaust requirements, or judgment of design engineer with approval by VA. Minimum outdoor air shall be as indicated but not less than 15% of the supply air, and in accordance with the latest edition of ASHRAE Standard 62.

4. Any variation from information shown herein is subject to VA approval.

5. Refer to K-1300 Series Hoods, Specification Section 233813, Commercial Kitchen Hoods (PG-18-1)

6. See VA’s HVAC Design Manual for Hospital Projects (PG-18-10) for supplementary perimeter heating.

*Notes shall apply for all spaces, where applicable
### 3.1.6 Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Amps</td>
</tr>
<tr>
<td>A.F.F.</td>
<td>Above Finished Floor</td>
</tr>
<tr>
<td>AF</td>
<td>After Filter</td>
</tr>
<tr>
<td>AI</td>
<td>Acquisition and Installation</td>
</tr>
<tr>
<td>AR</td>
<td>As Required</td>
</tr>
<tr>
<td>CF</td>
<td>Construction Funds, Veterans Affairs Furnished, Installed by VA or Contractor</td>
</tr>
<tr>
<td>CC</td>
<td>Contractor Furnished and Installed, Construction Funds</td>
</tr>
<tr>
<td>CT</td>
<td>Corrective Therapy</td>
</tr>
<tr>
<td>CRS</td>
<td>Corrosion-Resisting Steel</td>
</tr>
<tr>
<td>ES</td>
<td>Equipment Symbol</td>
</tr>
<tr>
<td>FC</td>
<td>Foot Candle</td>
</tr>
<tr>
<td>FPS</td>
<td>Fire Protection System</td>
</tr>
<tr>
<td>GWB</td>
<td>Gypsum Wall Board</td>
</tr>
<tr>
<td>MCS</td>
<td>Master Construction Specifications</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Association</td>
</tr>
<tr>
<td>NR</td>
<td>Not Required</td>
</tr>
<tr>
<td>NSF</td>
<td>Net Square Feet</td>
</tr>
<tr>
<td>NSM</td>
<td>Net Square Meters</td>
</tr>
<tr>
<td>OT</td>
<td>Occupational Therapy</td>
</tr>
<tr>
<td>PBPU</td>
<td>Patient Bedside Power Unit</td>
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<tr>
<td>PF</td>
<td>Pre-Filter</td>
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<tr>
<td>PT</td>
<td>Physical Therapy</td>
</tr>
<tr>
<td>RCP</td>
<td>Reflected Ceiling Plan</td>
</tr>
<tr>
<td>RH</td>
<td>Relative Humidity</td>
</tr>
<tr>
<td>SCI/DC</td>
<td>Spinal Cord Injury/Disorders Center</td>
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<tr>
<td>SD</td>
<td>Standard Detail, see PG-18-4</td>
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<tr>
<td>SS</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>V</td>
<td>Volts</td>
</tr>
<tr>
<td>VC</td>
<td>Veterans Affairs Furnished Contractor Installed, Medical Care Funds for Purchase, Construction Funds for Installation</td>
</tr>
<tr>
<td>VV</td>
<td>Veterans Affairs Furnished and Installed,</td>
</tr>
<tr>
<td>W</td>
<td>Watts</td>
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### 3.1.7 Symbols

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<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tbody>
<tr>
<td>GFI</td>
<td>GROUND FAULT INTERRUPTOR</td>
</tr>
<tr>
<td>J</td>
<td>JUNCTION BOX</td>
</tr>
<tr>
<td>H</td>
<td>HUMIDISTAT</td>
</tr>
<tr>
<td>T</td>
<td>THERMOSTAT</td>
</tr>
<tr>
<td>HN</td>
<td>NIGHT LIGHT</td>
</tr>
<tr>
<td>Nces</td>
<td>NURSE CALL EMERGENCY STATION</td>
</tr>
<tr>
<td>Ne</td>
<td>NURSE CALL EMERGENCY STATION</td>
</tr>
<tr>
<td>Nd</td>
<td>NURSE CALL DUTY STATION</td>
</tr>
<tr>
<td>X</td>
<td>SPEAKER</td>
</tr>
<tr>
<td>Xs</td>
<td>INCANDESCENT LIGHT FIXTURE/ DOWN LIGHT (NIGHT LIGHT)</td>
</tr>
<tr>
<td></td>
<td>1' x 4' FLUORESCENT FIXTURE</td>
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<td>2' x 4' FLUORESCENT LIGHT FIXTURE</td>
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<tr>
<td></td>
<td>2' x 2' FLUORESCENT LIGHT FIXTURE</td>
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<td>HVAC SUPPLY/LINEAR DIFFUSER</td>
</tr>
<tr>
<td></td>
<td>HVAC SUPPLY/OUTDOOR AIR DIFFUSER</td>
</tr>
<tr>
<td></td>
<td>HVAC RETURN/EXHAUST REGISTER</td>
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<tr>
<td></td>
<td>EXIT LIGHT</td>
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<tr>
<td></td>
<td>UNDER CABINET TASK LIGHT</td>
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<td></td>
<td>WALL MOUNTED CLOCK</td>
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<td>NURSE CALL STAFF STATION</td>
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<td></td>
<td>FIRE ALARM/AUDIO-VISUAL DEVICE</td>
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<tr>
<td></td>
<td>HOSPITAL RADIO TUNER/ VOLUME CONTROL</td>
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<td></td>
<td>VACUUM BOTTLE BRACKET</td>
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<tr>
<td></td>
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<td>VACUUM OUTLET *</td>
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<td>TELEVISION CABLE OUTLET</td>
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<td>SINGLE POLE SWITCH</td>
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<td>THREE WAY SWITCH</td>
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<td>FLOOR MOUNTED RECEPTACLE</td>
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### 3.2 Interior Guideplates*

1. Acute Care One-Bed Room (BRMS1) ................................................................. 3 - 9
2. Acute Care Isolation (BRIT1)/Anteroom (BRAR1) ........................................... 3 - 13
3. Acute Care Two-Bed Room (BRMS2) ............................................................. 3 - 21
4. Patient (Litter) Bathroom (TLTS1) ................................................................. 3 - 25
5. Acute Respiratory One-Bed Room (BRMS1) .................................................... 3 - 29
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*Guideplates are graphical representations of selected room types that illustrate the integration of space, components, systems and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library (TIL).*
1. Acute Care One-Bed Room (BRMS1)

Floor Plan

Note: It may be helpful for the designer to review information in Part 1 - Narrative for dimensional and planning contextual data.

210 NSF (19.5 NSM)
1. Acute Care One-Bed Room (BRMS1)
Reflected Ceiling Plan

NOTE: * BOTH SINGLE TRACK & MOVABLE OR UNIVERSAL TRACK LIFT SYSTEMS ARE INDICATED IN THE PLAN AS AN OPTION. THE TYPE OF LIFT TO BE USED ON SPECIFIC PROJECT IS TO BE SPECIFIED / SELECTED BY THE VA CENTER OR STATION. LOCATIONS OF SINGLE TRACK LIFT RAILS AND LIGHTING FIXTURES MUST BE COORDINATED BY PROJECT DESIGNER.
  * THERE SHALL BE NO PATIENT LIFT TRACK CONNECTIONS BETWEEN PATIENT ROOM AND PATIENT BATHROOM.
  * PATIENT LIFT MUST STAY INSIDE CURTAIN.
  * LOCATE REQUIRED SPRINKLERS PER CODE AND TO BE COORDINATED WITH CURTAIN LOCATIONS.

210 NSF (19.5 NSM)

1/4" = 1'-0"
1. Acute Care One-Bed Room (BRMS1)

Space Requirement:
210 NSF (19.5 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Gypsum Wallboard*
Ceiling: Acoustical Tile
Ceiling Height: 9'-0" (2743 mm)
Noise (STC Rating): 35
Slab Depression: None
Special Construction: -
Hardware: 7
Doors: 4'-0" (1219 mm) x 7'-0" (2134 mm) wood or metal, optional view glass panel.
Windows: Required by code, operable, see PG-18-3, Topic 1, Codes and Standards.

*Vinyl Wall covering at Lavatory

HVAC:
Temperature/Humidity:
    Summer: 72˚F (22˚C) @60%RH
    Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Neutral (0)
Max Noise Criteria: 35

Electrical:
Lighting Levels:
    Gen. Illum: 10fc
    Task Illum: 70fc (Directly over Bed)
    Over Bed: 30fc
Emergency Power:
    Medical Gases
    Night Lights
    Vanity Light
    One Receptacle per PBPU
    Nurse Call
# 1. Acute Care One-Bed Room (BRMS1)

## Equipment Table:

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**TABLE 3.1**

**ACUTE CARE ONE-BED ROOM (BRMS1)**
2. Acute Care Isolation (BRIT1)/Anteroom (BRAR1)

Floor Plan

Isolation Room: 210 NSF (19.5 NSM) + 30 NSF (2.8 NSM)
Anteroom: 75 NSF (7.0 NSM) + 30 NSF (2.8 NSM)
2. Acute Care Isolation/Anteroom (BRIT1/BRAR1)
Reflected Ceiling Plan

NOTE: * BOTH SINGLE TRACK & MOVABLE OR UNIVERSAL TRACK LIFT SYSTEMS ARE INDICATED IN THE PLAN AS AN OPTION. THE TYPE OF LIFT TO BE USED ON SPECIFIC PROJECT IS TO BE SPECIFIED / SELECTED BY THE VA CENTER OR STATION. LOCATIONS OF SINGLE TRACK LIFT RAILS AND LIGHTING FIXTURES MUST BE COORDINATED BY PROJECT DESIGNER.
* THERE SHALL BE NO PATIENT LIFT TRACK CONNECTIONS BETWEEN PATIENT ROOM AND PATIENT BATHROOM.
* PATIENT LIFT MUST STAY INSIDE CURTAIN.
* LOCATE REQUIRED SPRINKLERS PER CODE AND TO BE COORDINATED WITH CURTAIN LOCATIONS.

Isolation Room: 210 NSF (19.5 NSM) + 30 NSF (2.8 NSM)
Anteroom: 75 NSF (7.0 NSM) + 30 NSF (2.8 NSM)
2-a. Acute Care Isolation - Negative Air Balance (BRIT1)

Space Requirement:
210 NSF (19.5 NSM), add 30 NSF (2.8 NSM) if Nurse Servers are required.

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Gypsum Wallboard/Paint*
Ceiling: Gypsum Wall Board or Clipped down ACT w/ Smooth, Washable Surface
Ceiling Height: 9'-0" (2743 mm)
Noise (STC Rating): 35
Slab Depression: None
Special Construction: -
Hardware: 7
Doors: 4'-0" (1219 mm) x 7'-0" (2134 mm)
Windows: Required by code, operable, see PG-18-3, Topic 1, Codes and Standards.

*Vinyl Wall Covering at Lavatory

HVAC:
Temperature/Humidity:
   Summer: 72˚F (22˚C) @60%RH
   Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 12 ACH (100 % exhaust)
Pressure: Negative (-)
Max Noise Criteria: 35

Electrical:
Lighting Levels:
   Gen. Illum: 10fc
   Task Illum: 70fc (Directly over bed)
   Over Bed: 30fc
Emergency Power:
   Medical Gasses
   Night Lights
   Vanity Light
   One Receptacle per PBPU
   Nurse Call
2-a. Acute Care Isolation - Positive Air Balance (BRIT1)

Space Requirement:
210 NSF (19.5 NSM), add 30 NSF (2.8 NSM) if Nurse Servers are required.

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Gypsum Wallboard/Paint*
Ceiling: Gypsum Wall Board or Clipped down ACT w/ Smooth, Washable Surface
Ceiling Height: 9'-0" (2743 mm)
Noise (STC Rating): 35
Slab Depression: None
Special Construction: -
Hardware: 7
Doors: 4'-0" (1219 mm) x 7'-0" (2134 mm)
Windows: Required by code, operable, see PG-18-3, Topic 1, Codes and Standards.

*Vinyl Wall Covering at Lavatory

HVAC:
Temperature/Humidity:
    Summer: 72˚F (22˚C) @60%RH
    Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 12 ACH
Pressure: Positive (+)
Max Noise Criteria: 35

Electrical:
Lighting Levels:
    Gen. Illum: 10fc
    Task Illum: 70fc (Directly over bed)
    Over Bed: 30fc
Emergency Power:
    Medical Gasses
    Night Lights
    Vanity Light
    One Receptacle per PBPU
    Nurse Call
2-a. Acute Care Isolation (BRIT1)

Equipment Table:

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<tr>
<th>SYMBOL</th>
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<th>DESCRIPTION</th>
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<td></td>
</tr>
<tr>
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<td>VV</td>
<td></td>
<td>BED WITH MATTRESS, HOSPITAL PATIENT, ELECTRIC, HI-LO, 42&quot;W X 94&quot;L WITH 3&quot; DIA. WHEELS AND TRAPEZE BAR</td>
</tr>
<tr>
<td>1 1</td>
<td>CC</td>
<td></td>
<td>BUMPER GUARD, 2&quot; DEEP, WALL-MOUNTED OFF THE FLOOR BEHIND HEAD OF BED</td>
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<td>VV</td>
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<td>TABLE, OVER-BED, ADJUSTABLE HEIGHT, 33&quot;W X 14&quot; D, ON CASTERS</td>
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<td>1 1</td>
<td>VV</td>
<td></td>
<td>CABINET, BEDSIDE, PORTABLE 20&quot;W X 16&quot;D X 34 ½&quot;H</td>
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<tr>
<td>2 2</td>
<td>VV</td>
<td></td>
<td>VISITORS CHAIR</td>
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<tr>
<td>1 1</td>
<td>CC</td>
<td></td>
<td>WARDROBE LOCKER, PATIENT, WITH PUSH BUTTON SECURITY LOCK, 36&quot;W X 25 ½&quot;D X 78&quot;H (TOP SHELF FOR PILLOW AND BLANKET STORAGE) WALL MOUNTED</td>
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<td>PREFABRICATED BEDSIDE POWER UNIT: STYLE C, PG-18-4, 16685-4.DWG</td>
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<td>LIGHT, BED (ON WALL OVER BED 7 FEET ABOVE FLOOR) PG-18-1, MCS 16510</td>
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<td>LIGHT, FLUORESCENT, FOR EXAMINATION ILLUMINATION, CEILING MOUNTED OVER EACH BED (PG-18-1, MCS 16510)</td>
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<td>TYPE S-4 1 1</td>
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<td>VANITY, WITH HIGH PRESSURE PLASTIC LAMINATE COUNTER TOP, MOLDED SELF EDGE AND BACKSPLASH (PG-18-1, MCS 12302)</td>
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<td>LAVATORY COUNTER MOUNTED, 19&quot; DIAMETER WRIST BLADE HANDLES, GOOSENECK SPOUT (PG-18-1 MCS 15450))</td>
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<td>DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
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<td>WASTE RECEPTACLE</td>
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<td>LIGHT, FLUORESCENT, VANITY (PG-18-1, MCS 16510)</td>
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<td>LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
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<td>DISPENSER, COMBO PAPER TOWEL AND DISPOSAL</td>
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<td>RECEPTACLE, ELECTRICAL, 120 VOLT, 20 AMP WITH GROUND FAULT INTERRUPTER, ADJACENT TO LAVATORY (PG-18-1, MCS 16140)</td>
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<td>LIGHT, NIGHT, (PG-18-1, MCS 16510)</td>
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<tr>
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<td>RECEPTACLE, ELECTRICAL, DUXFL, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
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<td>CALL, NURSES PANEL, WITH CORRIDOR SIGNAL LIGHT (PG-18-1, MCS 16761)</td>
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<td>OBSERVATION WINDOW ON CORRIDOR WALL, FIXED FRAME WITH INTEGRAL BLIND CONTROLLED FROM INSIDE THE ISOLATION ROOM.</td>
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<td>OUTLET, MASTER TELEVISION ANTENNA.</td>
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<td>INTERNET ACCESS AT BEDSIDE</td>
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<tr>
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<td>VV</td>
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<td>WALL MOUNTED ADJUSTABLE ARM TV</td>
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</table>

**TABLE 3.2a**
ACUTE CARE ISOLATION (BRIT1)
2-b. Acute Care Anteroom (BRAR1)

Space Requirement:
75 NSF (7.0 NSM), add 30 NSF (2.8 NSM) if Nurse Servers are required.

Architectural:
- Floor Finish: Vinyl Composition Tile
- Base: Vinyl
- Wall Finish: Gypsum Wallboard/Paint*
- Ceiling: Gypsum Wall Board or Clipped down ACT w/ Smooth, Washable Surface
- Ceiling Height: 8'-0" (2438 mm)
- Noise (STC Rating): 35
- Slab Depression: None
- Special Construction: -
- Hardware: 12, both doors
- Doors: 3'-6" (1097 mm) x & 7'-0" (2134 mm) gasket wood or metal, optional view glass panel at corridor.
- Windows: Observation window into Isolation Room, see VA Standard Detail.

*Vinyl Wall covering at Lavatory

HVAC:
- Temperature/Humidity:
  - Summer: Not required (note 2)
  - Winter: Not required (note 2)
- Min. Air Changes/Hour: 10 ACH (100% exhaust)
- Pressure: Not required
- Max Noise Criteria: 40

NOTES:
1. Per Facility Guidelines Institute (FGI) and ASHRAE Standard 170, Acute Care Anteroom is only required for Protective Environment (PE) patients if the patient requires Airborne Isolation Infection (AII).
2. Since room temperature control is not required, Temperature/Humidity is not listed.

Electrical:
- Lighting Levels:
  - Gen. Illum: 30fc
- Emergency Power:
  - Task Illumination
  - One Receptacle
  - Ventilation
  - Exhaust Fan
  - All HVAC Controls
### 2-b. Acute Care Anteroom (BRAR1)

**Equipment Table:**

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<td>LAVATORY, STRAIGHT BACK, ELECTRONIC TEMPERED FAUCET, 20&quot; X 18&quot; AND 3 ½&quot; APRON (PG-18-1, MCS 15450)</td>
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<td>1 1</td>
<td>VV</td>
<td>DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
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<td>CABINET, UNDERCOUNTER WITH TWO SLIDING METAL DOORS AND TWO ADJUSTABLE METAL SHELVES 48&quot; W X 22&quot; D X 36&quot; H, COUNTER TOP AND SPLASHBACK TO BE STAINLESS STEEL (PG-18-1, MCS 12301)</td>
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<td>CC</td>
<td>CABINET WITH SLOPING TOP, WALL HUNG ABOVE BASE CABINET, TWO SLIDING METAL DOORS WITH LOCK, TWO ADJUSTABLE METAL SHELVES, 48&quot; W X 16&quot; D X 30&quot; H (PG-18-1, MCS 12301)</td>
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<td>MIRROR, 16&quot; X 20&quot;, WITH INTEGRAL SHELF, OVER LAVATORY (PG-18-1, MCS 10800)</td>
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<td>DISPENSER, PAPER TOWEL AND DISPOSAL COMBINATION UNITS (PG-18-1, MCS 10800)</td>
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<td>HAMPER, SOILED LINEN, WITH HINGED SELF CLOSING TOP</td>
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<td>HAZARDOUS MATERIAL WASTE CONTAINER, WITH HINGED SELF CLOSING TOP</td>
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<td>WINDOW, OBSERVATION (SEE ARCHITECTURE DRAWING FOR EXACT LOCATION) (PG-18-1, MCS 05500 &amp; 08100; PG-18-4, SD 08110-4.DWG)</td>
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<td>LIGHT NIGHT, INCANDESCENT CEILING MOUNTED AT ENTRANCE.</td>
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</table>

**TABLE 3.2b**

**ACUTE CARE ANTEROOM (BRAR1)**
3. Acute Care Two-Bed Room (BRMS2)

Floor Plan

- Hospital Bed
- Overbed Table
- Waste Receptacle (VV)
- Bedside Power Unit
- Wall-Mounted Adjustable Arm TV
- Wall-Mounted Headwall Bumper
- Hospital Bed
- Patient Wardrobe
- Vanity
- GFI 30" (914 mm) AFC
- Mirror Vanity Light
- Mirror
- Soap Dispenser
- Waste Receptacle (VV)
- Staff Sink
- W/ Paper Towel Dispenser
- Paper Towel Dispenser

Note: It may be helpful for the designer to review information in Part 1 - Narrative for dimensional and planning contextual data.
3. Acute Care Two-Bed Room (BRMS2)
Reflected Ceiling Plan

NOTE:
* BOTH SINGLE TRACK & MOVABLE OR UNIVERSAL TRACK LIFT SYSTEMS ARE INDICATED IN THE PLAN AS AN OPTION. THE TYPE OF LIFT USED ON SPECIFIC PROJECT IS TO BE SPECIFIED / SELECTED BY THE VA CENTER OR STATION. LOCATION OF SINGLE TRACK LIFT RAILS AND LIGHTING FIXTURES MUST BE COORDINATED BY PROJECT DESIGNER.
* THERE SHALL BE NO PATIENT LIFT TRACK CONNECTIONS BETWEEN PATIENT ROOM AND PATIENT BATHROOM.
* PATIENT LIFT MUST STAY INSIDE CURTAIN.
* LOCATE REQUIRED SPRINKLERS PER CODE AND TO BE COORDINATED WITH CURTAIN LOCATIONS.

450 NSF (41.8 NSM)
3. Acute Care Two-Bed Room (BRMS2)

Space Requirement:
450 NSF (41.8 NSM).

Architectural:
- Floor Finish: Vinyl Composition Tile
- Base: Vinyl
- Wall Finish: Gypsum Wallboard*
- Ceiling: Acoustical Tile
- Ceiling Height: 9’-0” (2743 mm)
- Noise (STC Rating): 35
- Slab Depression: None
- Special Construction: -
- Hardware: 7
- Doors: 4’-0” (1219 mm) x 7’-0” (2134 mm) wood or metal, optional view glass panel.
- Windows: Required by code, operable, see PG-18-3, Topic 1, Codes and Standards.

*Vinyl Wall covering at Lavatory

HVAC:
- Temperature/Humidity:
  - Summer: 72˚F (22˚C) @60%RH
  - Winter: 82˚F (28˚C) @20%RH
- Min. Air Changes/Hour: 6 ACH
- Pressure: Neutral (0)
- Max Noise Criteria: 35

Electrical:
- Lighting Levels:
  - Gen. Illum: 10fc
  - Task Illum: 70fc (Directly over bed)
  - Over Bed: 30fc
- Emergency Power:
  - Medical Gasses
  - Night Lights
  - Vanity Light
  - One Receptacle per PBPU
  - Nurse Call
### 3. Acute Care Two-Bed Room (BRMS2)

#### Equipment Table:

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<td>CEILING LIFT TRACK SYSTEM</td>
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<td>BED WITH MATTRESS, HOSPITAL PATIENT, ELECTRIC, HI-LO, 42” W X 94”L WITH 3” DIAL, WHEELS AND TRAPEZE BAR</td>
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<td>2</td>
<td>VV</td>
<td>BUMPER GUARD, 2” DEEP, WALL-MOUNTED OFF THE FLOOR BEHIND HEAD OF BED</td>
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<tr>
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<td>TABLE, OVER-BED, ADJUSTABLE HEIGHT, 33”W X 14”D, ON CASTERS</td>
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<td>CABINET, BEDSIDE, PORTABLE, 20”W X 16”D X 34 ½” H</td>
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<td>2</td>
<td>VV</td>
<td>VISITOR CHAIRS</td>
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<td>CC</td>
<td>WARDROBE LOCKER, PATIENT, WITH PUSH BUTTON SECURITY LOCK, 36” W X 25 ½” D X 78” H (TOP SHELF FOR PILLOW AND BLANKET STORAGE) WALL MOUNTED</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>CC</td>
<td>PREFABRICATED BEDSIDE POWER UNIT: STYLE C, PG-18-4, SD 16685-1.DWG</td>
</tr>
<tr>
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<td>LIGHT, BED (ON WALL OVER BED 7 FEET ABOVE FLOOR) (PG-18-1, MCS 16510)</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>CC</td>
<td>LIGHT, FLUORESCENT, FOR EXAMINATION ILLUMINATION, CEILING MOUNTED OVER EACH BED (PG-18-1, MCS 16510)</td>
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<tr>
<td>TYPE S-4</td>
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<td>VANITY, WITH HIGH PRESSURE PLASTIC LAMINATE COUNTER TOP, MOLDED SELF EDGE AND BACKSPLASH (PG-18-1, MCS 12302)</td>
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<td>P-413</td>
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<td>LAVATORY COUNTER MOUNTED, 19” DIAMETER WRIST BLADE HANDLES, GOOSENECK SPOUT (PG-18-1, MCS 15450)</td>
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<tr>
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<td>CC</td>
<td>LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
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<td>MIRROR, 24”W X 36”L (PG-18-1, MCS 10800)</td>
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<td>LIGHT, FLUORESCENT, VANITY (PG-18-1, MCS 16510)</td>
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<td>DISPENSER, PAPER TOWEL AND DISPOSAL COMBINATION UNITS (PG-18-1, MCS 10800)</td>
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<td>RECEPTACLE, ELECTRICAL 120 VOLT, 20 AMP WITH GROUND FAULT INTERRUPTER, ADJACENT TO LAVATORY (PG-18-1, MCS 16140)</td>
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<td>LIGHT, NIGHT (PG-18-1, MCS 16510)</td>
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<td>CALL, NURSES PANEL, WITH CORRIDOR SIGNAL LIGHT (PG-18-1, MCS 16761)</td>
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<td>LIGHT NIGHT, INCANDESCENT CEILING MOUNTED AT ENTRANCE</td>
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<td>OUTLET MASTER TV ANTENNA</td>
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<tr>
<td>3 3</td>
<td>VV</td>
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<td>WASTE RECEPTACLE</td>
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<td>P-418</td>
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<td>STAFF SINK LAVATORY</td>
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<td></td>
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<td>VV</td>
<td>WALL MOUNTED ADJUSTABLE ARM TV</td>
</tr>
</tbody>
</table>

**TABLE 3.3**

ACUTE CARE TWO-BED ROOM (BRMS2)
4. Patient (Litter) Bathroom (TLTS1)

Floor Plan

Note: Provide 50% of the transfer areas on the left and 50% of the transfer areas on the right of the water closet. (Opposite hand configuration.)

120 NSF (11.2 NSM)

Department of Veterans Affairs

Guideplates
4. Patient (Litter) Bathroom (TLTS1)

Reflected Ceiling Plan

NOTE: * BOTH SINGLE TRACK & MOVABLE OR UNIVERSAL TRACK LIFT SYSTEMS ARE INDICATED IN THE PLAN AS AN OPTION. THE TYPE OF LIFT TO BE USED ON SPECIFIC PROJECT IS TO BE SPECIFIED / SELECTED BY THE VA CENTER OR STATION. LOCATIONS OF SINGLE TRACK LIFT RAILS AND LIGHTING FIXTURES MUST BE COORDINATED BY PROJECT DESIGNER

* THERE SHALL BE NO PATIENT LIFT TRACK CONNECTIONS BETWEEN PATIENT ROOM AND PATIENT BATHROOM.

* PATIENT LIFT MUST STAY INSIDE CURTAIN.

* LOCATE REQUIRED SPRINKLERS PER CODE AND TO BE COORDINATED WITH CURTAIN LOCATIONS.

120 NSF (11.2 NSM)

1/4" = 1'-0"
4. Patient (Litter) Bathroom (TLTS1)

Space Requirement:
120 NSF (11.2 NSM)

Architectural:
Floor Finish: Ceramic Tile (slip-resistant)
Base: Ceramic Tile
Wall Finish: GWB/4'-0" ceramic wainscot*
Ceiling: Acoustic Tile (special-faced)
Ceiling Height: 9'-0" (2743 mm) Plaster in shower.
Noise (STC Rating): 35
Slab Depression: 4" (102 mm) for ceramic tile, sloped to drain, see VA Standard Details
Special Construction: -
Hardware: 100
Doors: 4'-0" (1219 mm) x 7'-0" (2134 mm) wood or metal, automatic slider, louver as required.
Windows: None

*Full ceramic tile in shower

HVAC:
Temperature:
  Summer: 75˚F (26˚C)
  Winter: 70˚F (21˚C)
Min. Air Changes/Hour: 15 ACH (100 % exhaust)
Pressure: Negative (-)
Max Noise Criteria: 40

Electrical:
Lighting Levels:
  Gen. Illum: 30fc
Emergency Power:
  One Ceiling Light
  Nurse Call
### 4. Patient (Litter) Bathroom (TLTS1)

#### Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
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<td>B</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>VC</td>
<td>CEILING LIFT TRACK SYSTEM</td>
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<td>WATER CLOSET, WALL HUNG (PG-18-1, MCS 15450)</td>
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<td>BACKREST, TOILET, ADJUSTABLE (PG-18-1, MCS 05500)</td>
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<td>BAR, GRAB FOR WATER CLOSET (PG-18-1, MCS 10800, PG-18-4, SD 10162-1.DWG)</td>
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<td>LAVATORY, INTEGRAL WITH COUNTER TOP, WITH ELECTRONIC SENSOR CONTROL FAUCET, SPINAL CORD SELF CARE (PG-18-1, MCS 15450)</td>
</tr>
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<td>P-418</td>
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<td>NURSE CALL-INSTALL AN EMERGENCY STATION WITH A PRESSURE ACTIVATED TOUCH PAD, PLASTIC VINYL COATED WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (H-08-1, MCS 16761; H-08-4, SD 10162-1.DWG)</td>
</tr>
<tr>
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<td>VV</td>
<td>DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>VV</td>
<td>DISPENSER, COMBO PAPER TOWEL AND DISPOSAL, SURFACE MOUNTED</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>VV</td>
<td>WASTE RECEPTACLE</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>CC</td>
<td>LIGHT, FLUORESCENT, RECESSED IN CEILING, WITH SWITCH AT ENTRANCE (PG-18-1, MCS 16510) NOTE: THIS LIGHT FIXTURE PROVIDES ILLUMINATION FOR THE SHOWER AREA</td>
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<tr>
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<td>CC</td>
<td>SHOWER BATH FIXTURE, DETACHABLE, WALL MOUNTED, CONCEALED SUPPLIES, PRESSURE BALANCING OR THERMOSTATIC MIXING VALVE AND THERMOMETER (PG-18-1, MCS 15450; PG-18-4, SD 10800-1.DWG, 10801-2.DWG and 10801-3.DWG)</td>
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<td>HOOK, CLOTHES (PG-18-1, MCS 10800)</td>
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<td>T-45</td>
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<td>SHELF, CORROSION RESISTING STEEL, 12” W X 5” D (PG-18-1, MCS 10360; PG-18-4, SD 10801-1.DWG)</td>
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<td>DISH, SOAP, SURFACE MOUNTED (PG-18-1, MCS 10800)</td>
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<tr>
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<td>CC</td>
<td>BAR, GRAB (PG-18-1, MCS 10800; PG-18-4, SD 10800-1.DWG)</td>
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<tr>
<td></td>
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<td>CC</td>
<td>ALERT LIGHT, MOUNTED IN BEDROOM ABOVE BATHROOM DOOR, WIRED TO BATHROOM LIGHT SWITCHES (PG-18-1, MCS 16510)</td>
</tr>
<tr>
<td></td>
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<td>CC</td>
<td>TOILET PAPER DIPENSER</td>
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<td>1</td>
<td>CC</td>
<td>ALERT LIGHT, MOUNTED IN BEDROOM ABOVE BATHROOM DOOR, WIRED TO BATHROOM LIGHT SWITCHES (PG-18-1, MCS 16510)</td>
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<tr>
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<td>CC</td>
<td>NURSE CALL-EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (PG-18-1, MCS 16761)</td>
</tr>
<tr>
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<td>1</td>
<td>CC</td>
<td>LIGHT, FLUORESCENT, OVERHEAD, WITH SWITCH AT ENTRANCE (PG-18-1, MCS 16510) NOTE: THIS LIGHT FIXTURE PROVIDES ILLUMINATION FOR THE WATER CLOSET/LAVATORY AREA</td>
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<tr>
<td></td>
<td>1</td>
<td>VV</td>
<td>PRIVACY SCREEN, MOBILE</td>
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</table>

**TABLE 3.4**

**PATIENT (LITTER) BATHROOM (TLTS1)**
5. Acute Respiratory One-Bed Room (BRMS1)
Floor Plan

Note: It may be helpful for the designer to review information in Part 1 - Narrative for dimensional and planning contextual data.

270 NSF (25.1 NSM)
5. Acute Respiratory One-Bed Room (BRMS1)
Reflected Ceiling Plan

NOTE: *
* BOTH SINGLE TRACK & MOVABLE OR UNIVERSAL TRACK LIFT SYSTEMS ARE INDICATED IN
THE PLAN AS AN OPTION. THE TYPE OF LIFT TO BE USED ON SPECIFIC PROJECT IS TO BE
SPECIFIED / SELECTED BY THE VA CENTER OR STATION. LOCATIONS OF SINGLE TRACK LIFT
RAILS AND LIGHTING FIXTURES MUST BE COORDINATED BY PROJECT DESIGNER
* THERE SHALL BE NO PATIENT LIFT TRACK CONNECTIONS BETWEEN PATIENT ROOM AND PATIENT
BATHROOM.
* PATIENT LIFT MUST STAY INSIDE CURTAIN.
* LOCATE REQUIRED SPRINKLERS PER CODE AND TO BE COORDINATED WITH CURTAIN LOCATIONS.

270 NSF (25.1 NSM)
5. Acute Respiratory One-Bed Room (BRMS1)

Space Requirement:
270 NSF (25.1 NSM).

Architectural:
- Floor Finish: Vinyl Composition Tile
- Base: Vinyl
- Wall Finish: Gypsum Wallboard/Paint*
- Ceiling: Acoustical Tile
- Ceiling Height: 9’-0” (2743 mm)
- Noise (STC Rating): 35
- Slab Depression: None
- Special Construction: -
- Hardware: 7
- Doors: 4’-0” (1219 mm) x 7’-0” (2134 mm) wood or metal
- Windows: Required by code, operable, see PG-18-3, Topic 1, Codes and Standards.

*Vinyl Wall covering at Lavatory

HVAC:
- Temperature/Humidity:
  - Summer: 72˚F (22˚C) @60%RH
  - Winter: 82˚F (28˚C) @20%RH
- Min. Air Changes/Hour: 6 ACH
- Pressure: Neutral (0)
- Max Noise Criteria: 35

Electrical:
- Lighting Levels:
  - Gen. Illum: 10fc
  - Task Illum: 70fc
  - Over Bed: 30fc
- Emergency Power:
  - Full PBPU
  - Night Lights
  - Vanity Light
  - Nurse Call
## 5. Acute Respiratory One-Bed Room (BRMS1)

### Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
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<td>AR</td>
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<td>BED WITH MATTRESS, HOSPITAL PATIENT, ELECTRIC, HI-LO, 42&quot;W X 94&quot;L WITH 3&quot; DIA. WHEELS AND TRAPEZE BAR</td>
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<td>BUMPER GUARD, 2&quot; DEEP, WALL MOUNTED OFF THE FLOOR BEHIND HEAD OF BED</td>
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<td>TABLE, OVER-BED, ADJUSTABLE HEIGHT, 33&quot;W X 14&quot;D, ON CASTERS</td>
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<td>CABINET, BEDSIDE, PORTABLE, 20&quot;W X 16&quot;D X 34 ½&quot; H</td>
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<tr>
<td></td>
<td>1</td>
<td>VV</td>
<td>VISITOR CHAIRS</td>
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<td>CC</td>
<td>WARDROBE LOCKER, PATIENT, WITH PUSH BUTTON SECURITY LOCK, 36&quot;W X 25 1/2&quot; D X 78&quot;H (TOP SHELF FOR PILLOW AND BLANKET STORAGE) WALL MOUNTED</td>
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<tr>
<td></td>
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<td>CC</td>
<td>PREFABRICATED BEDSIDE POWER UNIT: STYLE C, PG-18-4, SD 16685-4.DWG</td>
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<td>CC</td>
<td>LIGHT, BED (ON WALL OVER BED 7 FEET ABOVE FLOOR) (PG-18-1, MCS 16510)</td>
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<tr>
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<td>CC</td>
<td>LIGHT, FLUORESCENT, FOR EXAMINATION ILLUMINATION, CEILING MOUNTED OVER EACH BED (PG-18-1, MCS 16510)</td>
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<tr>
<td>TYPE S-4</td>
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<td>VANITY, WITH HIGH PRESSURE PLASTIC LAMINATE COUNTER TOP, MOLDED SELF EDGE AND BACKSPLASH (PG-18-1, MCS 12302)</td>
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<td>LAVATORY COUNTER MOUNTED, 19&quot; DIAMETER WRIST BLADE HANDLES, GOOSENECK SPOUT (PG-18-1, MCS 15450).</td>
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<td>MIRROR, 24&quot;W X 36&quot;L (PG-18-1, MCS 10800)</td>
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<td>LIGHT, NIGHT (INCADESCENT CEILING MOUNTED AT ENTRANCE)</td>
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<td>DISPENSER, PAPER TOWEL AND DISPOSAL COMBINATION UNITS (PG-18-1, MCS 10800)</td>
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<tr>
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<td>LIGHT, FLUORESCENT, VANITY, GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
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<tr>
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<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, 120 VOLT, 20 AMP WITH GROUND FAULT INTERRUPTER, ADJACENT TO LAVATORY (PG-18-1, MCS 16140)</td>
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<tr>
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<td>CC</td>
<td>LIGHT, NIGHT (PG-18-1, MCS 16510)</td>
</tr>
<tr>
<td>AR</td>
<td>1</td>
<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
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<td>CALL, NURSES PANEL, WITH CORRIDOR SIGNAL LIGHT (PG-18-1, MCS 16761)</td>
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<td>WINDOW OBSERVATION (PG-18-1, MCS 05500 &amp; 08110; H-08-4, SD 08110-4.DWG)</td>
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<td>IPPB VENTILATOR WITH AIR OXYGEN BLENDER</td>
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<td>WALL MOUNTED ADJUSTABLE ARM TV</td>
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</table>

**TABLE 3.5**

**ACUTE/RESPIRATORY ONE-BED ROOM (BRMS1)**
6. Nurse Station (NSTA1)/Ward Clerk (OFA01/OFA02)

Floor Plan

Note: Room size is variable, see project-specific program for actual size.

Communication Ctr: 300 NSF (27.9 NSM); 40 NSF (3.7 NSM) per Staff.
Ward Clerk: 80 NSF (7.5 NSM)
6. Nurse Station/Ward Clerk (NSTA1) / (OFA01/OFA02)

Reflected Ceiling Plan

NOTE: ROOM SIZE IS VARIABLE, SEE PROJECT-SPECIFIC PROGRAM FOR ACTUAL SIZE.

Communication Ctr: 300 NSF (27.9 NSM); 40 NSF (3.7 NSM) per Staff.
Ward Clerk: 80 NSF (7.5 NSM)
6. Nurse Station (NSTA1)/Ward Clerk (OFA01/OFA02)

Space Requirement:
Communication Center: 300 NSF (27.9 NSM) [40 NSF (3.7 NSM) per staff station]
Ward Clerk: 80 NSF (7.5 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Veneer Plaster/Vinyl Fabricated
Ceiling: Acoustical Tile
Ceiling Height: 9'-0" (2743 mm)
Noise (STC Rating): N/A
Slab Depression: None
Special Construction: -
Hardware: None
Doors: None
Windows: None

HVAC:
Temperature/Humidity:
    Summer: 72˚F (22˚C) @60%RH
    Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Neutral (0)
Max Noise Criteria: 40

Electrical:
Lighting Levels:
    Gen. Illum (day): 50fc
    Gen. Illum (night): 30fc
    Task Illum: 70fc
Emergency Power:
    Task Illumination
    One Receptacle
    Nurse Call System
    Medical Gas Alarms
6. Nurse Station (NSTA1)/Ward Clerk (OFA01/OFA02)

Equipment Table:

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<th>DESCRIPTION</th>
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<td>D</td>
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<tr>
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<td>COUNTER TOP, HIGH PRESSURE LAMINATE, 30&quot;H WITH 30&quot; DESK, INDIVIDUAL SINGLE DRAWERS BELOW FULL LENGTH OF COUNTER AS REQUIRED, SIZE ACCORDING TO INDIVIDUAL PROJECT DESIGN (PG-18-1, MCS 12302; PG-18-4, 06200-1.DWG) NOTE: THE COUNTER TOP ABOVE SHOULD BE PROVIDED WITH ONE WHEELCHAIR CUT-OUT SECTION MINIMUM 36&quot;</td>
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<td>NURSE CALL, CONSOLE, ANNUNCIATOR, AUDIO VISUAL DESK TYPE (PG-18-1, MCS 16761)</td>
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<td>CLOCK, BATTERY OPERATED</td>
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<td>CC</td>
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<td>BULLETIN BOARD, 60&quot; W X 36&quot;H</td>
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<td>VV</td>
<td>CABINET, FILING, UNDERCOUNTER</td>
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<td>CABINET, FILING, UNDERCOUNTER</td>
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<td>VV</td>
<td>PRINTER, FAX MACHINE, COMPUTER SYSTEM</td>
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<td>2</td>
<td>VV</td>
<td>BOOKCASE, SECTIONAL (EACH SECTION 33&quot;W X 13&quot; D X 15&quot;H) WITH 10&quot;H BASE</td>
</tr>
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<td>1</td>
<td>1</td>
<td>VV</td>
<td>CART, EMERGENCY, &quot;CRASH CART&quot;, APPROX. 36&quot; W X 21&quot;D</td>
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<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>LIGHT, FLUORESCENT, SOFFIT LIGHTING (PG-18-1 MCS 16510)</td>
</tr>
</tbody>
</table>

**TABLE 3.6**  \nNURSE STATION/WARD CLERK (NSTA1)/ (OFA01/OFA02)
7. Nourishment Kitchen (NCWD1)

Floor Plan

Note: Combined equipment units may be preferable to separate integral type of Nourishment Unit.
7. Nourishment Kitchen (NCWD1)
Reflected Ceiling Plan

RETURN REGISTER

CEILING MOUNTED FLUORESCENT LIGHT

SUPPLY DIFFUSER (PROVISIONAL)

100 NSF (9.3 NSM)

1/4" = 1'-0"
7. Nourishment Kitchen (NCWD1)

Space Requirement:
100 NSF (9.3 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Gypsum Wallboard/Paint
Ceiling: Acoustical Tile
Ceiling Height: 8'-0" (2438 mm)
Noise (STC Rating): N/A
Slab Depression: None
Special Construction: -
Hardware: None
Doors: None
Windows: None

HVAC:
Temperature/Humidity:
   Summer: Not required (note 1)
   Winter: Not required (note 1)
Min. Air Changes/Hour: 6 ACH (100% Exhaust)
Pressure: Negative (-)
Max Noise Criteria: 40

NOTES:
1. Since room temperature control is not required, Temperature/Humidity is not listed.

Electrical:
Lighting Levels:
   Gen. Illum: 30fc
   Task Illum: 70fc
Emergency Power:
   Refrigerator
### 7. Nourishment Kitchen (NCWD1)

**Equipment Table:**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1 MCS 16510)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>B</td>
<td>CABINET, KITCHEN, BASE AND WALL, WITH WORK TOP AND DRAWERS</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>C</td>
<td>ICE MAKER, WITH ICE BIN AND ICE DISPENSER</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>D</td>
<td>REFRIGERATOR, UNDER THE COUNTER, 120 VOLT, 20 AMP.</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td></td>
<td>STEEL SINK, CORROSION RESISTANT, WITH HOT AND COLD WATER MIXING FAUCET</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td></td>
<td>DISPENSER, CUP</td>
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<tr>
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<td>DISPENSER, SOAP</td>
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<td>1</td>
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<td>DISPENSER, PAPER TOWEL</td>
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<tr>
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<td>1</td>
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<td>RECEPTACLE, WASTE</td>
</tr>
<tr>
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<td>2</td>
<td></td>
<td>MICROWAVE OVEN, 120 VOLT, 20 AMP (SIT ON COUNTER)</td>
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<tr>
<td>T-78</td>
<td>2</td>
<td></td>
<td>SHELVING, WALL HUNG, STEEL, WITH 2 ADJUSTABLE SHELVES, 2 DOORS WITH LOCK, 36&quot;W X 16&quot;D X 48&quot;H (PG-18-1, MCS 10671)</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
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<td>CART, NOURISHMENT, MOBILE, APPROX. 48&quot;W X 24&quot;D</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td></td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
</tr>
</tbody>
</table>

**TABLE 3.7**

**NOURISHMENT KITCHEN (NCWD1)**
8. Hydrotherapy/Tubroom (PTWT1)

Floor Plan

- WHIRLPOOL & THERMOSTATIC MIXING VALVE (CF)
- STOOL
- LAUNDRY TRUCK (VV)
- GFI @ PANEL
- HYDROThERAPY TUB (CF)
- 4" (101 mm) DRAIN
- FD
- STOOL (VV)
- GFI
- FULL BODY THERAPY TUB (CF)
- 3" (76 mm) DRAIN
- GFI @ PANEL
- THERMOMETER

380 NSF (35.4 NSM)

Scale: 1/4'' = 1'-0''
8. Hydrotherapy/Tubroom (PTWT1)
Reflected Ceiling Plan

- Ceiling mounted fluorescent light fixture centered over patient bed
- *Single track lift
- Nurse call light
- Speaker
- Cubicle curtains
- Supply diffuser (typ)
- Ceiling-mounted fluorescent light (typ)
- Movable/universal track lift
- Exhaust register

380 NSF (35.4 NSM)

1/4" = 1'-0"
8. Hydrotherapy/Tubroom (PTWT1)

Space Requirement:
380 NSF (35.4 NSM)

Architectural:
- Floor Finish: Ceramic Tile (slip-resistant)
- Base: Ceramic Tile
- Wall Finish: GWB/4'-0" Ceramic Wainscot
- Ceiling: Acoustical Tile/Special-Faced
- Ceiling Height: 9'-0" (2743 mm)
- Noise (STC Rating): 30
- Slab Depression: 4" for ceramic tile sloped to drain.
- Special Construction: -
- Hardware: 5
- Doors: 4'-0" (1219 mm) x 7'-0" (2134 mm) wood or metal
- Windows: None

HVAC:
- Temperature/Humidity:
  - Summer: 78˚F (26˚C)
  - Winter: 82˚F (28˚C)
- Min. Air Changes/Hour: 10 ACH (100% exhaust)
- Pressure: Negative (-)
- Max Noise Criteria: 40

Electrical:
- Lighting Levels:
  - Gen. Illum: 30fc
- Emergency Power:
  - One Ceiling Light
  - Nurse Call
8. Hydrotherapy/Tubroom (PTWT1)

Equipment Table:

A - Not Applicable.
B - Not Applicable.
C - Physical Therapy Clinics for Spinal Cord Injury/Disorders Centers of 61-100 Beds.
D - Physical Therapy Clinics for Spinal Cord Injury/Disorders Centers of over 100 Beds.

<table>
<thead>
<tr>
<th>SYMBOL</th>
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<th>AI</th>
<th>DESCRIPTION</th>
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<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>CF</td>
<td>TANK, HYDROTHERAPY WHIRLPOOL, FULLBODY IMMERSION. ADJUSTABLE (CURVILINEAR OR RECTANGULAR) APPROX. OUTSIDE DIMENSIONS LENGTH OF TANK 102&quot;, WIDTH AT HEAD END 74&quot;, DEPTH OF TANK 38&quot;, HEIGHT FLOOR TO RIM 34&quot; (PG-18-1, MCS 11491) PG-18-6, SD 11491-1.DWG)</td>
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<tr>
<td>2</td>
<td>3</td>
<td>CC</td>
<td>HOIST, OVERHEAD WITH CRADLE, ¼ HP MOTOR FOR EACH TANK (TO EXTEND BEYOND TANK) OPTIONAL - DEPENDS ON FULLBODY TANK PURCHASED (PG-18-1, MCS 11491)</td>
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<tr>
<td>AR</td>
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<td>VV</td>
<td>CURTAIN, CUBICLE</td>
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<td>P-413</td>
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<td>1</td>
<td>CC</td>
</tr>
<tr>
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<td>1</td>
<td>CC</td>
<td>MIRROR, 16&quot; X 20&quot;, WITH INTEGRAL SHELF, OVER LAVATORY (PG-18-1, MCS 10800; H-08-4, SD 15)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VV</td>
<td>DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>DISPENSER, PAPER TOWEL AND DISPOSAL COMBINATION UNITS (PG-18-1, MCS 10800)</td>
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<tr>
<td>AR</td>
<td>AR</td>
<td>VV</td>
<td>RECEPTACLE, WASTE, STEP ON TYPE, APPROX. 12&quot; DIAMETER</td>
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<td>2</td>
<td>2</td>
<td>CC</td>
<td>DRAIN, FLOOR (PLUMBING DESIGN CRITERIA AND INSTRUCTIONS)</td>
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<tr>
<td>2</td>
<td>2</td>
<td>VV</td>
<td>TRUCK, CANVAS (LAUNDRY TYPE) APPROX. 48&quot;W X 36&quot;D</td>
</tr>
<tr>
<td>HT 102</td>
<td>2</td>
<td>2</td>
<td>CF</td>
</tr>
<tr>
<td>HT 103</td>
<td>2</td>
<td>2</td>
<td>CF</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>CF</td>
<td>STOOL, STAINLESS STEEL, REVOLVING</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VV</td>
<td>CLOCK, BATTERY OPERATED</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP, WITH GROUND FAULT INTERRUPTER, ADJACENT TO LAVATORY (PG-18-1, MCS 16140)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>NURSE CALL-EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (PG-18-1, MCS 16761)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>LIGHT, FLUORESCENT, GENERAL LIGHTING, (PG-18-1, MCS 16150)</td>
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<td>AR</td>
<td>CC</td>
<td>CEILING LIFT SYSTEM</td>
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<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>TOWEL BAR</td>
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<td>CC</td>
<td>CLOTHES HOOK</td>
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TABLE 3.14
HYDROTHERAPY/TUBROOM (PTWT1)
9. Litter Storage (SRLW1)

Floor Plan

PATIENT LITTERS (VIV)

20'-0" (6096 mm)

15'-0" (4572 mm)

300 NSF (27.9 NSM)

1/4" = 1'-0"

Guideplates
9. Litter Storage (SRLW1)
Reflected Ceiling Plan

EXHAUST DIFFUSER
CEILING MOUNTED FLUORESCENT LIGHTS (TYP)
SUPPLY DIFFUSER (PROVISIONAL)

300 NSF (27.9 NSM)

1/4" = 1'-0"
9. Litter Storage (SRLW1)

Space Requirement:
300 NSF (27.9 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Gypsum Wallboard/Paint
Ceiling: Acoustical Tile
Ceiling Height: 8'-0" (2438 mm)
Noise (STC Rating): 30
Slab Depression: None
Special Construction: -
Hardware: 13
Doors: 4'-0" (1219 mm) x 7'-0" (2134 mm) wood or metal, optional glass view panel.
Windows: None Required

HVAC:
Temperature/Humidity:
   Summer: 78˚F (26˚C)
   Winter: 70˚F (21˚C)
Min. Air Changes/Hour: 6 ACH (100% exhaust)
Pressure: Negative (-)
Max Noise Criteria: 40

NOTES:
1. Room temperature control is optional.

Electrical:
Lighting Levels:
   Gen. Illum: 20fc
Emergency Power: -
## 9. Litter Storage (SRLW1)

**Equipment Table:**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR AR VV</td>
<td>A B C D</td>
<td>VV</td>
<td>LITTER, APPROXIMATELY 24” x 72’</td>
</tr>
<tr>
<td>AR AR VV</td>
<td>A B C D</td>
<td>VV</td>
<td>GURNEY, MANUAL</td>
</tr>
<tr>
<td>AR AR VV</td>
<td>A B C D</td>
<td>VV</td>
<td>GURNEY, ELECTRIC</td>
</tr>
<tr>
<td>AR AR CC</td>
<td>A B C D</td>
<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
</tr>
<tr>
<td>AR AR CC</td>
<td>A B C D</td>
<td>CC</td>
<td>LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
</tr>
</tbody>
</table>

**TABLE 3.9**

LITTER STORAGE (SRLW1)
10. Transfer Equipment Storage (SRE01)

Floor Plan

Note: Room size is variable, see project-specific program for actual size.

210 NSF (19.5 NSM)
10. Transfer Equipment Storage (SRE01)

Reflected Ceiling Plan

210 NSF (19.5 NSM)
10. Transfer Equipment Storage (SRE01)

Space Requirement:
210 NSF (19.5 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Gypsum Wallboard/Paint
Ceiling: Acoustical Tile
Ceiling Height: 8'-0" (2438 mm)
Noise (STC Rating): 30
Slab Depression: None
Special Construction: -
Hardware: 13
Doors: 4'-0" (1219 mm) x 7'-0" (2134 mm) wood or metal, optional glass view panel.
Windows: None Required

HVAC:
Temperature/Humidity:
  Summer: 78˚F (26˚C)
  Winter: 70˚F (21˚C)
Min. Air Changes/Hour: 4 ACH (100% exhaust)
Pressure: Negative (-)
Max Noise Criteria: 40

NOTES:
1. Room temperature control is optional.

Electrical:
Lighting Levels:
  Gen. Illum: 20fc
Emergency Power: -
10. Transfer Equipment Storage (SRE01)

Equipment Table:

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<th>DESCRIPTION</th>
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</tr>
<tr>
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<td>VV</td>
<td>MOBILIZER, APPROXIMATELY 36&quot; X 84&quot;</td>
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<tr>
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<td>AR</td>
<td>AR</td>
<td>VV</td>
</tr>
<tr>
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<td>LIFT, TRANSFER, PATIENT, HYDRAULIC, WITH ACCESSORIES, OR LIFT, PATIENT, SCREW TYPE WITH ACCESSORIES, APPROXIMATELY 36&quot; X 48&quot;</td>
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<td>1</td>
<td>VV</td>
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<tr>
<td></td>
<td>AR</td>
<td>AR</td>
<td>VV</td>
</tr>
<tr>
<td></td>
<td>PRONE PATIENT BED SCALE, APPROXIMATELY 36&quot; X 48&quot;</td>
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<td>AR</td>
<td>AR</td>
<td>VV</td>
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<td>WHEELCHAIR, ELECTRIC</td>
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<td>AR</td>
<td>AR</td>
<td>VV</td>
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<td>WHEELCHAIR, STANDARD</td>
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<td>AR</td>
<td>VV</td>
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<td>RESPIRATOR, APPROXIMATELY 18&quot; X 18&quot;</td>
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<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
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<td>LIGHT, FLUORESCENT, GENERAL LIGHTING, (PG-18-1, MCS 16510)</td>
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</tr>
</tbody>
</table>

TABLE 3.10
TRANSFER EQUIPMENT STORAGE (SRE01)
11. Day Room/Lounge (DAYR1)
Floor Plan

EXTERIOR WINDOW
STACKABLE CHAIRS (VV)

TELEVISION (VV)
MAGAZINE RACK (VV)

BULLETIN BOARD (VV)
AUTOMATIC DOORS

48" (1219 mm) AFF"

400 NSF (37.2 NSM)

1/4" = 1' - 0"

Department of Veterans Affairs

Guideplates 3 - 53
11. Day Room/Lounge (DAYR1)
Reflected Ceiling Plan

400 NSF (37.2 NSM)

1/4" = 1'-0"
11. Day Room/Lounge (DAYR1)

Space Requirement:
400 NSF (37.2 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: GWB/Vinyl Fabric Wallcovering
Ceiling: Acoustical Tile
Ceiling Height: 9'-0" (2743 mm)
Noise (STC Rating): 35
Slab Depression: None
Special Construction: -
Hardware: 5
Doors: 2@3'-0" (914 mm) x 7'-0" (2134 mm)
Wood or metal, upper half-laminated safety glass.
Windows: Desirable, see H-08-3, CS-31-1 & CD-35.

HVAC:
Temperature/Humidity:
  Summer: 72˚F (22˚C) @60%RH
  Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Neutral (0)
Max Noise Criteria: 35

Electrical:
Lighting Levels:
  Three Level Fluorescent:
    High: 60fc
    Med: 45fc
    Low: 20fc
  Incandescent Wall-Washers
  on Dimmer: 0fc-5fc
Emergency Power:
  One Ceiling Light
  Nurse Call
### 11. Day Room/Lounge (DAYR1)

**Equipment Table:**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>DESCRIPTION</th>
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<td>CC</td>
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<td>RECEPTACLE, ELECTRICAL, FOR TELEVISION RECEIVER 120 VOLT 20 AMP (PG-18-1, MCS 16140)</td>
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<td>CC</td>
<td></td>
<td>OUTLET, MASTER TELEVISION ANTENNA (PG-18-1, MCS 16781)</td>
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<td></td>
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<td>1</td>
<td>VV</td>
<td></td>
<td>RECEIVER, TELEVISION 120 VOLT, 20 AMP</td>
</tr>
<tr>
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<td>1</td>
<td>CC</td>
<td></td>
<td>SPEAKER, WITH CHANNEL SELECTOR AND VOLUME CONTROL, HOSPITAL RADIO SYSTEM (PG-18-1, MCS 16771)</td>
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<td></td>
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<td>1</td>
<td>CC</td>
<td></td>
<td>CALL, NURSES-EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (PG-18-1, MCS 16761)</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>VV</td>
<td></td>
<td>CLOCK, BATTERY OPERATED</td>
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<tr>
<td>AR</td>
<td>AR</td>
<td></td>
<td></td>
<td>VV</td>
<td></td>
<td>DRAPES, WINDOW</td>
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<td>AR</td>
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<td>TRACK, DRAPERY, INSTALL ACCORDING TO DESIGN (PG-18-1, MCS 12501)</td>
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<td>DISPENSER, CUP, PAPER, WITH BUILT-IN WASTE CUP RECEPTACLE (PG-18-1, MCS 10800)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td></td>
<td></td>
<td>CC</td>
<td></td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>VV</td>
<td></td>
<td>BULLETIN BOARD, 40”W X 36”H</td>
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<td>AR</td>
<td></td>
<td></td>
<td>CC</td>
<td></td>
<td>FIRE ALARM STATION, AUDIO &amp; VISUAL DEVICE, WALL MOUNTED (PG-18-1, MCS 16721)</td>
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<td>AR</td>
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<td>CC</td>
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<td>LIGHT, FLUORESCENT, GENERAL LIGHT (PG-18-1, MCS 16510)</td>
</tr>
<tr>
<td>AR</td>
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<td></td>
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<td></td>
<td>BOTTLED WATER DISPENSER</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>VV</td>
<td></td>
<td>SOFA, 1 SEAT UPHOLSTERED, APPROXIMATELY 83”W X 33”D X 28”H</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td></td>
<td></td>
<td>VV</td>
<td></td>
<td>EASY CHAIR, UPHOLSTERED, REGULAR</td>
</tr>
</tbody>
</table>

**TABLE 3.11**

DAY ROOM/LOUNGE (DAYR1)
12. Resident Dining/Serving (FSCD1)
Floor Plan

Note: Exterior Access to picnic area is desirable

1600 NSF (148.6 NSM)
12. Resident Dining/Serving (FSCD1)
Reflected Ceiling Plan

1600 NSF (148.6 NSM)
12. Resident Dining/Serving (FSCD1)

Space Requirement:
1600 NSF (148.6 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: GWB/Vinyl Fabric Walkover
Ceiling: Acoustical Tile
Ceiling Height: 9'-0" (2743 mm)
Noise (STC Rating): 35
Slab Depression: None
Special Construction: -
Hardware: 82
Doors: 2@3'-0" (914 mm) x 7'-0" (2134 mm) wood or metal, upper half=laminated safety glass.
Windows: Very desirable, see PG-18-3, Topic 1, Codes and Standards.

HVAC:
Temperature/Humidity:
    Summer: 72˚F (22˚C) @60%RH
    Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Negative (-)
Max Noise Criteria: 40

NOTES:
1. Provide linear diffusers at exposed window locations (where applicable).

Electrical:
Lighting Levels:
    Three Level Illuminations:
        High: 30fc
        Med: 20fc
        Low: 10fc
Emergency Power:
    Two Ceiling Lights
    Night Lights
12. Resident Dining/Serving (FSCD1)

Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
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<tr>
<td>AR</td>
<td>AR</td>
<td>VV</td>
<td>CHAIR, DINING, APPROX. 18&quot;W X 18&quot;D</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>TABLE, SUSPENDED, 60&quot; DIAMETER (SEE ARCHITECTURAL AND ELECTRICAL SERVICE FOR REQUIREMENTS FOR SUSPENDED TABLE)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VV</td>
<td>CLOCK, BATTERY OPERATED</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>SPEAKER, WITH CHANNEL SELECTOR AND VOLUME CONTROL, HOSPITAL RADIO SYSTEM (PG-18-1, MCS 16771)</td>
</tr>
<tr>
<td>1</td>
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<td>CC</td>
<td>SCREEN, PROJECTION, CEILING MOUNTED, 70&quot; X 70&quot; (PG-18-1, MCS 11131)</td>
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<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>CALL, NURSES- EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (PG-18-1, MCS 16761)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>FIRE ALARM STATION AUDIO &amp; VISUAL DEVICE WALL MOUNTED (PG-18-1, MCS 16721)</td>
</tr>
<tr>
<td>AR</td>
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<td>CC</td>
<td>SERVICE LINE ELEMENTS/ ICE MAKER/DISPENSER, COLD BEVERAGE DISPENSER, COUNTERS ETC.</td>
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**TABLE 3.12**

RESIDENT DINING/SERVING (FSCD1)
13. Multipurpose Room (XXXXC)

Floor Plan

Note: 1. Access to an Outdoor recreational area is required.
2. Access from multipurpose recreational is desired.
3. Room size is variable, see project-specific program for actual size.

800 NSF (74.3 NSM)
13. Multipurpose Room (XXXXC)

Reflected Ceiling Plan

800 NSF (74.3 NSM)

1/8" = 1'-0"
13. Multipurpose Room (XXXXC)

**Space Requirement:**
800 NSF (74.3 NSM)

**Architectural:**
- Floor Finish: Vinyl Composition Tile
- Base: Vinyl
- Wall Finish: GWB/Vinyl Fabric Wall cover
- Ceiling: Acoustical Tile
- Ceiling Height: 10'-0" (3047 mm)
- Noise (STC Rating): 45
- Slab Depression: None
- Special Construction: -
- Hardware: 82
- Doors: 2@3'-0" (914 mm) x 7'-0" (2134 mm) wood or metal, upper half=laminated safe glass.
- Windows: Desirable, see PG-18-3, Topic 1, Codes and Standards.

**HVAC:**
- Temperature/Humidity:
  - Summer: 72°F (22°C) @60%RH
  - Winter: 82°F (28°C) @20%RH
- Min. Air Changes/Hour: 6 ACH
- Pressure: Neutral (0)
- Max Noise Criteria: 40

**Electrical:**
- Lighting Levels:
  - Three Level Illuminations:
    - High: 50fc
    - Med: 30fc
    - Low: 15fc
- Emergency Power:
  - One Ceiling Light for each space, on either side of folding partition.
  - Nurse Call
# 13. Multipurpose Room (XXXXC)

## Equipment Table:

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<td>1 1</td>
<td>CC DOOR, FOLDING</td>
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<tr>
<td>1 1</td>
<td>VV TABLE, POOL</td>
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<tr>
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<td>VV TABLE, PING PONG, PORTABLE</td>
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<td>VV CHAIR, STACKING</td>
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<td>VV BULLETIN BOARD, 48&quot; W X 36&quot;H</td>
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<tr>
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<td>VV SHUFFLEBOARD TABLE 24&quot;W X 96&quot;L X 36&quot;H</td>
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<td>VV TABLE, GAME, PORTABLE, ELECTRONIC, 120 VOLT, 20 AMP</td>
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<tr>
<td>AR AR</td>
<td>VV TABLE, GAME</td>
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<td></td>
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<tr>
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<td>VV CLOCK, BATTERY OPERATED</td>
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<td>1 1</td>
<td>CC TABLE, SUSPENDED, 60&quot; DIAMETER (SEE ARCHITECTURAL AND ELECTRICAL SERVICE FOR REQUIREMENTS FOR SUSPENDED TABLE)</td>
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<tr>
<td>AR AR</td>
<td>CC CEILING SPEAKERS, WITH CHANNEL SELECTOR AND VOLUME CONTROL, HOSPITAL RADIO SYSTEM (PG-18-1, MCS 16771)</td>
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<tr>
<td>AR AR</td>
<td>CC LIGHT, FLUORESCENT, GENERAL LIGHTS (PG-18-1, MCS 16510)</td>
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<td>CC FIRE ALARM STATION, AUDIO &amp; VISUAL DEVICE WALL MOUNTED (PG-18-1, MCS 16721)</td>
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<td>AR AR</td>
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**TABLE 3.13**

MULTIPURPOSE ROOM (XXXXC)
14. Internet Café (XXXXX)
Floor Plan

Note: Vicinity to Multipurpose/Dining Room is desirable, to facilitate easy access to refreshments.

240 NSF (22.3 NSM)
14. Internet Café (XXXXX)
   Reflected Ceiling Plan

EXHAUST REGISTER
NURSE CALL LIGHT
SOFFIT
CEILING MOUNTED FLUORESCENT LIGHTS (TYP)
SUPPLY DIFFUSER (PROVISIONAL)
UNDER CABINET TASK LIGHTS (TYP)

GYPSUM SOFFIT
INCANDESCENT LIGHT FIXTURES (TYP)

240 NSF (22.3 NSM)

1/4" = 1'-0"
14. Internet Café (XXXXX)

Space Requirement:
240 NSF (22.3 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Gypsum Wallboard – Vinyl Coated Fabric Wallcovering
Ceiling: Acoustical Tile
Ceiling Height: 9'-0" (2743 mm)
Noise (STC Rating): 35
Slab Depression: None
Special Construction: -
Hardware: -
Doors: None Required
Windows: Desirable, see PG-18-3, Topic 1, Codes and Standards.

HVAC:
Temperature/Humidity:
    Summer: 72˚F (22˚C) @60%RH
    Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Neutral (0)
Max Noise Criteria: 35

Electrical:
Lighting Levels:
    Three Level Fluorescent:
        High: 60fc
        Med: 45fc
        Low: 20fc
    Incandescent
    Wall-Washers on Dimmer: 0fc-5fc
Emergency Power:
    One Ceiling Light
    One Receptacle
    Nurse Call
### 14. Internet Café (XXXXX)

**Equipment Table:**

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<td>AR</td>
<td>CC</td>
<td></td>
<td>COUNTER WITH STORAGE CABINETS ABOVE, WALL MOUNTED</td>
</tr>
<tr>
<td>AR</td>
<td>VV</td>
<td></td>
<td>CPU’S</td>
</tr>
<tr>
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<td>VV</td>
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<td>MONITORS</td>
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<td>VV</td>
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<td>PRINTER/FAX/COPIER</td>
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<td>TABLE</td>
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<tr>
<td>1</td>
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<td>NURSE CALL, EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION</td>
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<td>RECEPTACLE, ELECTRICAL, DUPELEX, 120 VOLT, 20 AMP</td>
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<tr>
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<td>COFEE MAKER</td>
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</table>

**TABLE 3.14**

INTERNET CAFÉ (XXXXX)
15. Activities of Daily Living (OTDL1)

Floor Plan

- WALL-MOUNTED FLUORESCENT LIGHT FIXTURES
- WATER CLOSET
- GRAB BARS
- P-302 BATHTUB/SHOWER
- GRAB BARS
- WALL MOUNTED CABINET
  - 36" (914 mm) A.F.F.
  - 36" (914 mm) A.F.F. GFI
- DISHWASHER
- KITCHEN CABINETS W/ SINK
- DISPOSAL
  - 36" (914 mm) A.F.F. GFI
- WALL MOUNTED CABINET
- RANGE/OVEN 208V
  - 36" (914 mm) A.F.F. GFI
- MICROWAVE (VV)
- CLOCK (VV)
- REFRIGERATOR (VV)
- WALL-MOUNTED MEDICINE CABINET /MIRROR
- VANITY/LAVATORY W/DISPENSERS W/ SHELF 54" A.F.F.
- WASTE RECEPTACLE (VV)
- CLOTHES CLOSET ROD, 48" A.F.F.
- WASHER
- DRYER
- KITCHEN TABLE (VV)

200 NSF (18.6 NSM)

Scale: 1/4" = 1'-0"
15. Activities of Daily Living (OTDL1)
Reflected Ceiling Plan

- Exhaust Register
- Ceiling Mounted Fluorescent Light Fixtures
- Supply Diffuser
- Exhaust Over Range
- Nurse Call Light (Typ.)
- Soffit

200 NSF (18.6 NSM)

1/4" = 1'-0"
15. Activities of Daily Living (OTDL1)

Space Requirement:
200 NSF (18.6 NSM)

Architectural:
- Floor Finish: Vinyl Composition Tile
- Base: Vinyl
- Wall Finish: Gypsum Wallboard/Paint
- Ceiling: Acoustical Tile
- Ceiling Height: 8'-0" (2438 mm)
- Noise (STC Rating): 30
- Slab Depression: None
- Special Construction: -
- Hardware: N/A
- Doors: None Required
- Windows: None Required

HVAC:
- Temperature/Humidity:
  - Summer: 72˚F (22˚C) @60%RH
  - Winter: 82˚F (28˚C) @20%RH
- Min. Air Changes/Hour: 6 ACH for Kitchen and Dining (100% exhaust);
  10 ACH for Toilet (100% exhaust)
- Pressure: Negative (-)
- Max Noise Criteria: 40

NOTES:
1. Temperature/Humidity and ACH are listed for Kitchen and Dining area.
2. Since room temperature control is not required for Toilet, Temperature/Humidity is not listed.

Electrical:
- Lighting Levels:
  - Gen. Illum: 20fc
15. Activities of Daily Living (OTDL1)

Equipment Table:

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<th>SYMBOL</th>
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<th>DESCRIPTION</th>
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<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
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<td>1</td>
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<td>CABINET, KITCHEN, BASE, WITH WORK TOP AND SINK, DOMESTIC (PG-18-1, MCS 11450 &amp; 11451)</td>
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<tr>
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<td>DISPOSAL, WASTE, SINK UNIT (PG-18-1, MCS 11451)</td>
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<td>CABINET, KITCHEN, WALL MOUNTED, DOMESTIC (PG-18-1, MCS 11450 &amp; 11451)</td>
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<td>OVEN, ELECTRIC, BUILT IN, SINGLE COMPARTMENT, DOMESTIC, 208 VOLT, 20 AMP SINGLE PHASE, SIDE HINGE</td>
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<td>RANGE, ELECTRIC, 4 BURNERS, FRONT CONTROLS, DOMESTIC, 208 VOLT, 40 AMP, SINGLE PHASE</td>
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<td>VV</td>
<td>REFRIGERATOR – FREEZER, DOMESTIC, 120 VOLT, 20 AMP APPROX. 31”W X 28”D X 66”H</td>
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<tr>
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<td>1</td>
<td>VV</td>
<td>MICROWAVE OVEN, 120 VOLT, 20 AMP (SIT ON COUNTER)</td>
</tr>
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<td>RECEPTACLE, ELECTRICAL, 208 VOLT, 40 AMP (PG-18-1, MCS 16140)</td>
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<td>DISHWASHER, HOUSEHOLD TYPE, UNDER COUNTER, 120 VOLT, 1.5 KW (PG-18-1, MCS 11450)</td>
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<td>WASHER, HOUSEHOLD TYPE, 120 VOLT, 1.5 KW (PG-18-1)</td>
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<td>DRYER, HOUSEHOLD TYPE, 120 VOLT, 1.5 KW (PG-18-1)</td>
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<td>TABLE, KITCHEN, WITH PLASTIC LAMINATE TOP, 40”W X 30”D X APPROX. 30”H.</td>
</tr>
</tbody>
</table>

NOTE: ALL ABOVE EQUIPMENT ARE WHEELCHAIR ACCESSIBLE

|        |          |    |             |
| 2      | 2        | VV | CHAIR, STRAIGHT, WITHOUT ARMS, APPROX 30 X 30 |
| AR     | AR       | CC | LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510) |
| AR     | AR       | CC | CALL, NURSES EMERGENCY STATION WITH CORRIDOR SIGNAL (PG-18-1, MCS 16761) |

CC | CLOCK |

|        |          |    |             |
| 2      | 2        | VV | DISPENSER, SOAP, LIQUID, WALL MOUNTED |
| 1      | 1        | VV | DISPENSER, PAPER TOWEL |
| 1      | 1        | VV | WASTE RECEPTACLE, CLOSET ROD W/ SHELF |
| P-415  | 1        | CC | VANTY W/ LAVATORY CABINET, MEDICINE CABINET W/ MIRROR |
| AR     | AR       | CC | GRAB BARS (PG-18-1, MCS 10800; PG-18-4, SD 10800-1.DWG) |
| 1      | 1        | CC | DRAIN, FLOOR (PLUMBING DESIGN CRITERIA AND INSTRUCTIONS) |
| AR     | AR       | CC | BATHTUB/SPOILER, GRAB BARS |
| 1      | 1        | CC | CLOSET ROD W/ SHELF |
| AR     | AR       | CC | LIGHT, FLUORESCENT 2X2 |

### TABLE 3.15

**ACTIVITIES OF DAILY LIVING (OTDL1)**
16. Therapeutic Pool (PTWT1)
Floor Plan

CLOCK (VV)
CABINET 14A
SEE SD-70L
LIFE PRESERVER (VV)
DRY TRANSFER AREA
FLOOR DRAIN
S.S. GRIP
PERIMETER DRAIN/GUTTER
RAMP DOWN 18" (457 mm)

GFI

S.S. LADDER FOR POOL DEPTH
18'-0" (5486 mm)

POOL SWEEP (VV)

PATIENT LIFT

GFI

4'-0" (1219 mm) Min
6'-0" (1828 mm) Min

43'-0" (13110 mm)

EGRESS SECOND

39'-9" (1144 mm) Min
8'-0" (2438 mm) Min

GFI

MEDICAL AIR OUTLET
VACUUM OUTLET

GFI

ELECTRIC WATER COOLER
POOL EQUIPT. ACCESS

DRESSING ROOM ACCESS

GFI

GFI

LIFE PRESERVER (VV)

NOTE: 1. POOL SIZE IS PROJECT DEPENDENT.
2. HVAC NOTES: i). Provide corrosion-resistant diffusers and registers.
   ii). Provide steam to pool heater,
   iii). Optional Thermostat location, in exhaust air duct.

2000 NSF (204.3 NSM)

1/8" = 1'-0"

Guideplates 3 - 73
16. Therapeutic Pool (PTWT1)
Reflected Ceiling Plan

HVAC Notes:
1. Provide corrosion-resistant diffusers and registers.
2. Provide steam to pool heater.
3. Optional Thermostat location, in exaust air duct.

2000 NSF (204.3 NSM)

1/8" = 1'-0"
16. Therapeutic Pool (PTWT1)

**Space Requirement:**
2000 NSF (204.3 NSM)
See VA Space Planning Criteria for VA Facilities, Chapter 270 for justification requirements.

**Architectural:**
- **Floor Finish:** Ceramic Tile (slip-resistant)
- **Base:** Ceramic Tile
- **Wall Finish:** Ceramic Tile
- **Ceiling:** Plaster/Paint
- **Ceiling Height:** 10'-0" min. (3047 mm)
- **Noise (STC Rating):** 40
- **Slab Depression:** See PG-18-3, Topic 6, Floor Slab Depressions
- **Special Construction:** -
- **Hardware:** 67
- **Doors:** 4'-0" (1219 mm) x 7'-0" (2134 mm) wood or metal, upper half, laminated safety glass.
- **Windows:** Desirable, see PG-18-3, Topic 1, Codes and Standards.

**HVAC:**
- **Temperature:**
  - **Summer:** 80°F (27°C)
  - **Winter:** 85°F (29°C)
- **Min. Air Changes/Hour:** 10 ACH (100% exhaust)
- **Pressure:** Negative (-)
- **Max Noise Criteria:** 40

**NOTES:**
1. Provide a dedicated or common wet exhaust system with welded stainless steel ductwork. Provide two-position supply and exhaust air terminal units to reduce air volumes to 50% during unoccupied mode.
2. Direct supply air towards interior surfaces prone to condensation and towards water surface to move contaminated air towards exhaust. Locate exhaust air inlets to maximize capture effectiveness and minimize short-circuiting of the supply air.
3. The SCI patient requires 92°F - 93°F water temperature, while the MS patient requires 83°F - 84°F water temperature. The pool equipment should be designed to accommodate quick water temperature change, where both patient types can use the same pool on a given day based on schedule.

**Electrical:**
- **Lighting Levels:**
  - **Gen. Illum:** 30fc
- **Emergency Power:**
  - Two Ceiling Light
  - Nurse Call

**NOTES:**
1. Provide emergency power to additional ceiling lights based on room size and egress lighting photometric calculations. Provide quantity re-strike lamps in HID emergency fixtures
# 16. Therapeutic Pool (PTWT1)

## Equipment Table:

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<td>AR AR</td>
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<td>CABINET, STORAGE, FLOORSTANDING, WITH SLOPING TOP, 2 GLAZED SLIDING DOORS, LOCK AND 5 ADJUSTABLE SHELVES, 48&quot;W X 22&quot;D X 84&quot;H (PG-18-1, MCS 12301)</td>
</tr>
<tr>
<td></td>
<td>1 1 VV</td>
<td></td>
<td>NURSE CALL EMERGENCY</td>
</tr>
<tr>
<td></td>
<td>1 1 VV</td>
<td></td>
<td>AIR, OUTLET, VACCUM POOL SWEEP</td>
</tr>
<tr>
<td></td>
<td>AR AR CC</td>
<td></td>
<td>LIFE PRESERVERS, FLOOR DRAIN, HANDRAILS, ON SIDES OF POOL (PG-18-1, MCS 13164)</td>
</tr>
<tr>
<td></td>
<td>1 1 CC</td>
<td></td>
<td>HOIST, OVERHEAD, PATIENT LIFT, WITH CRADLE 120 VOLT, 20 AMP - OR -</td>
</tr>
<tr>
<td></td>
<td>1 1 CC</td>
<td></td>
<td>HOIST, HYDRAULIC, FLOOR MOUNTED TO DECK, EXTENDING OVER THE WATER</td>
</tr>
<tr>
<td></td>
<td>AR AR VV</td>
<td></td>
<td>WHEELCHAIRS, STAINLESS STEEL, FOR UNDERWATER USE</td>
</tr>
<tr>
<td></td>
<td>1 1 VV</td>
<td></td>
<td>CLOCK, ELECTRIC WITH SWEEP SECOND HAND, NURSE CALL, EMERGENCY</td>
</tr>
<tr>
<td></td>
<td>1 1 VV</td>
<td></td>
<td>TABLE, TREATMENT, STAINLESS STEEL, EXERCISE TYPE, ELECTRIC WATER COOLER</td>
</tr>
<tr>
<td></td>
<td>1 1 VV</td>
<td></td>
<td>BARS, PARALLEL, STAINLESS STEEL, UNDERWATER, ADJUSTABLE – 10' TO 15'L</td>
</tr>
<tr>
<td></td>
<td>AR AR CC</td>
<td></td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP GFI (PG-18-1, MCS 16140)</td>
</tr>
<tr>
<td></td>
<td>AR AR CC</td>
<td></td>
<td>LIGHT METAL HALIDE (PG-18-1, MCS 16510)</td>
</tr>
<tr>
<td></td>
<td>AR AR CC</td>
<td></td>
<td>FIRE ALARM STATION, AUDIO &amp; VISUAL DEVICE WALL MOUNTED (PG-18-1, MCS 16721)</td>
</tr>
<tr>
<td></td>
<td>2 2 CC</td>
<td></td>
<td>NURSE CALL, EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION</td>
</tr>
</tbody>
</table>

**TABLE 3.16**

**THERAPEUTIC POOL (PTWT1)**
17. Male Dressing Room - Pool (DR001)

Space Requirement:
300 NSF (27.9 NSM)

Architectural:
- Floor Finish: Ceramic Tile (slip-resistant)
- Base: Ceramic Tile
- Wall Finish: Gypsum Wallboard/Paint*
- Ceiling: Acoustical Tile (SP)**
- Ceiling Height: 9’-0” (2743 mm)
- Noise (STC Rating): 30
- Slab Depression: None
- Special Construction: -
- Hardware: -
- Doors: None Required
- Windows: None

*Ceramic Tile in Shower
**Plaster in Shower/Paint

HVAC:
- Temperature:
  - Summer: 78˚F (26˚C)
  - Winter: 82˚F (28˚C)
- Min. Air Changes/Hour: 6 ACH (100% exhaust)
- Pressure: Negative (-)
- Max Noise Criteria: 40

NOTES:
1. Increase the supply and make-up air volumes, if required, to meet the exhaust requirements of the toilet, showers, and lockers.

Electrical:
- Lighting Levels:
  - Gen. Illum: 30fc
- Emergency Power:
  - One Ceiling Light
  - Nurse Call

NOTES:
1. Provide emergency power to additional ceiling lights based on room size and egress lighting photometric calculation.
### 17. Male Dressing Room - Pool (DR001)

**Equipment Table:**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A  B  C  D</td>
<td></td>
<td>LOCATE ALL ITEMS CONVENIENT FOR WHEELCHAIR PATIENTS (PG-18-3, TOPIC 1, CODES AND STANDARDS ; PG-18-4, SD 10800-7.DWG)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>VV</td>
<td>LOCKERS, STEEL, DOUBLE TIER, WITH SHELVES AND COMBINATION LOCK, 15&quot;W X 18&quot;D X 78&quot;H</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>BENCH, WALL HUNG (PG-18-1, MCS 06200)</td>
</tr>
<tr>
<td>P-103</td>
<td>AR</td>
<td>CC</td>
<td>WATER CLOSET, WALL HUNG (PG-18-1, MCS 15450)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>ENCLOSURE, TOILET, WHEELCHAIR, CEILING HUNG (PG-18-1, MCS 10162; PG-18-3, TOPIC 1, CODES AND STANDARDS; PG-18-4, SD 10162-1.DWG)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>BAR, GRAB FOR WATER CLOSET (PG-18-1, MCS 10800; PG-18-4, SD 10162-1.DWG)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>DISPENSER, TOILET TISSUE, DOUBLE ROLL (PG-18-1, MCS 10800; PG-18-4, 10162-1.DWG)</td>
</tr>
<tr>
<td>P-415</td>
<td>AR</td>
<td>CC</td>
<td>LAVATORY, STRAIGHT BACK, WRIST CONTROL, 20&quot; X 18&quot; AND 3-1/2&quot; APRON (PG-18-1, MCS 15450)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>VV</td>
<td>DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>SHELF, STAINLESS STEEL, WALL HUNG 6&quot; X 18&quot; (PG-18-1, MCS 10360; PG-18-4, SD 10800-7.DWG)</td>
</tr>
<tr>
<td>AR</td>
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<td>CC</td>
<td>MIRROR, WHEELCHAIR, 24&quot;W X 36&quot;H (PG-18-1, MCS 10800; PG-18-4, SD 10162-1.DWG)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX 120 VOLT, 20 AMP, WITH GROUND FAULT INTERRUPTER, ADJACENT TO LAVATORY (PG-18-1, MCS 16140)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>VV</td>
<td>DISPENSER, BIFOLD PAPER TOWEL, SURFACE MOUNTED</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>STALL, SHOWER, 48&quot;W X 46 ¾&quot;D (PG-18-1, MCS 10170; PG-18-4, SD 10800-1.DWG)</td>
</tr>
<tr>
<td>P-704</td>
<td>AR</td>
<td>CC</td>
<td>SHOWER BATH FIXTURE, WALL MOUNTED, CONCEALED SUPPLIES, THERMOSTATIC MIXING VALVE, WITH HOSE SPRAY (PG-18-1, MCS 15450; PG-18-4, SD 10800-1.DWG)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>ROD, FOR SHOWER CURTAIN (PG-18-1, MCS 10800; PG-18-4, SD 10800-4.DWG)</td>
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<td>CC</td>
<td>LIGHT, FLUORESCENT, VANITY ( PG 18-1, MCS 16510)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>VV</td>
<td>CURTAIN, SHOWER</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>DISH, SOAP, RECESSED (PG-18-1, MCS 10800)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>BAR, GRAB FOR TUB OR SHOWER (PG-18-1, MCS 10800) PG-18-4, SD 10800-1.DWG and 10800-4.DWG</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>HOOK, CLOTHES (ONE FOR EACH TUB OR SHOWER) (PG-18-1, MCS 10800)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>HOOK, TOWEL (PG-18-1, MCS 10800)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>LIGHT FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>FIRE ALARM STATION AUDIO &amp; VISUAL DEVICE WALL MOUNTED (PG-18-1, MCS 16721)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>VV</td>
<td>PADDED CHANGING PLATFORM 18&quot;H</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>VV</td>
<td>HAMPER FOR WET SUITS &amp; TOWELS</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>CC</td>
<td>NURSE CALL, EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION</td>
</tr>
</tbody>
</table>

**TABLE 3.17**

**MALE DRESSING ROOM - POOL (DR001)**
18. Female Dressing Room - Pool (DR001)
Reflected Ceiling Plan

NURSE CALL LIGHT

CEILING MOUNTED FLUORESCENT LIGHT (TYP)

SUPPLY DIFFUSER

EXHAUST REGISTER (TYP.)

SOFFIT

SHOWER CURTAIN

CEILING MOUNTED WET LOCATION INCANDESCENT DOWNLIGHT

230 NSF (21.4 NSM)

1/4" = 1'-0"
18. Female Dressing Room - Pool (DR001)

Space Requirement:
230 NSF (21.4 NSM)

Architectural:
- Floor Finish: Ceramic Tile (slip-resistant)
- Base: Ceramic Tile
- Wall Finish: Gypsum Wallboard/Paint*
- Ceiling: Acoustical Tile (SP)**
- Ceiling Height: 9’-0” (2743 mm)
- Noise (STC Rating): 30
- Slab Depression: None (Except at shower stall)
- Special Construction: -
- Hardware: -
- Doors: None Required
- Windows: None

*Full Ceramic Tile in Shower
**Plaster in Shower/Paint

HVAC:
- Temperature:
  - Summer: 78˚F (26˚C)
  - Winter: 82˚F (28˚C)
- Min. Air Changes/Hour: 6 ACH for (100% exhaust)
- Pressure: Negative (-)
- Max Noise Criteria: 40

NOTES:
1. Increase the supply and make-up air volumes, if required, to meet the exhaust requirements of the toilet, showers, and lockers.

Electrical:
- Lighting Levels:
  - Gen. Illum: 30fc
- Emergency Power:
  - One Ceiling Light
  - Nurse Call

NOTES:
1. Provide emergency power to additional ceiling lights based on room size and egress lighting photometric calculations.
## 18. Female Dressing Room - Pool (DR001)

### Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
</tbody>
</table>

- **LOCATE ALL ITEMS CONVENIENT FOR WHEELCHAIR PATIENTS**
  (PG-18-3, TOPIC 1, CODES AND STANDARDS; PG-18-4, SD 10800-7.DWG)

- **LOCKERS, STEEL, DOUBLE TIER, WITH SHELVES AND COMBINATION LOCK,**
  15"W X 18"D X 78"H

- **ENCLOSURE, WHEELCHAIR, FLOOR SET OR CEILING HUNG**
  (PG-18-1, MCS 10162; PG-18-4, SD 10162-1.DWG)

- **NURSE CALL, EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT**
  CONNECTED TO NEAREST NURSE CONTROL STATION

- **WATER CLOSET, WALL HUNG** (PG-18-1, MCS 15450)

- **DISPENSER, TOILET TISSUE, DOUBLE ROLL** (PG-18-1, MCS 10800; PG-18-4, SD 10162-1.DWG)

- **LAVATORY, STRAIGHT, BACK, WRIST CONTROL, GOOSENECK SPOUT,**
  20" X 18" AND 3½" APRON (PG-18-1, MCS 15450)

- **DISPENSER, BIFOLD PAPER TOWEL, SURFACE MOUNTED**

- **STALL, SHOWER, 46 ¾"D X 48"W** (PG-18-1, MCS 10170; PG-18-4, SD 10800-1.DWG)

- **SHOWER BATH FIXTURE, WALL MOUNTED, CONCEALED SUPPLIES,**
  THERMOSTATIC MIXING VALVE, WITH HOSE SPRAY (PG-18-1, MCS 15450; PG-18-4, SD 10800-1.DWG)

- **FLOOR DRAIN, CURTAIN, SHOWER, NURSE CALL EMERGENCY W/ LIGHT**

- **DISH, SOAP, RECESSED (PG-18-1, MCS 10800)**

- **HOOK, CLOTHES (ONE FOR EACH TUB OR SHOWER)** (PG-18-1, MCS 10800)

- **LIGHT, FLUORESCENT, GENERAL LIGHTS** (PG-18-1, MCS 16510)

- **FIRE ALARM STATION, AUDIO & VISUAL DEVICE WALL MOUNTED** (PG-18-1, MCS 16721)

- **LIGHT, FLUORESCENT, VANITY** (PG-18-1, MCS 16510)

- **PADDED CHANGING PLATFORM 18"H**
19. Typical Corridor Section
Section / Elevation

CONTINUOUS FLUORESCENT LIGHTING (COORDINATE W/HVAC)

AUDIO-VISUAL FIRE ALARM

IMPACT-RESISTANT FABRIC ON VENEER PLASTER

ROOM NAMEPLATES
54” (1371 mm) AFF

FIRE ALARM PULL-STATIONS
48” (1219 mm) AFF

LIGHT SWITCHES & CONTROLS
40” (1016 mm) AFF

DOOR LEVERS, DRINKING FOUNTAIN BUBBLER
36” (914 mm) AFF

HANDRAILS
33” (838 mm) AFF

CLEAR BELOW DRINKING FOUNTAINS & TELEPHONES
28” (711 mm) AFF

ELECTRICAL OUTLETS
18” (457 mm) AFF

BUMPER GUARD CENTERLINE
10” (254 mm) AFF

1/2” = 1'-0"
19. Typical Corridor Section

Space Requirement:
As Required.

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Veneer Plaster/Paint
Ceiling: Acoustical Tile
Ceiling Height: 8'-0" (2438 mm)
Noise (STC Rating): 30
Slab Depression: None
Special Construction: -
Hardware: -
Doors: Smoke doors as required, wainscot height kickplates.
Windows: None Required

HVAC:
Temperature/Humidity:
   Summer: 72˚F (22˚C) @60%RH
   Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Neutral (0)
Max Noise Criteria: 40

NOTES:
1. Adjust supply air volume, as required, to meet the exhaust requirements of the adjoining spaces, such as toilets and HACs.
2. Maintain neutral air balance with respect to the occupied space except any requiring negative air balance.

Electrical:
Lighting Levels:
   Gen. Illum: 20fc min.

Equipment Table:
As Required.
20. SCI Elevator

Section

Note: All levels of multi-story construction are to be served by an elevator conforming to ANSI-A17.1, See H-08-13 (Section 4.11).

NOTE: INSIDE CAR DIMENSIONS: 6'-8" (2032 mm) MIN. WIDTH, 8'-8" (2641 mm) MIN. LENGTH

CENTER-OPENING DOORS
MIN. 4'-0" (1219 mm) OPENING

CONTROL PANEL W/2-WAY EMERGENCY COMMUNICATION SYSTEM

EMERGENCY LIGHT

LOCATION INDICATOR

HALL LANTERN & CHIMES
72" (1828 mm) AFF

FLOOR DESIGNATION
60" (1524 mm) AFF

HANDRAIL
42" (1066 mm) AFF

HANDRAIL
30" (762 mm) AFF

ELECTRIC EYE REOPENER
29" (736 mm) AFF

ELECTRIC EYE REOPENER
5" (127 mm) AFF

1/2" (6mm) LEVELING TOLERANCE

1/2" = 1'-0"
20. SCI Elevator

Space Requirement:
As required.

Architectural:
Floor Finish: Vinyl Composition Tile
Base: N/A
Wall Finish: Varies, 4'-0" (1219 mm) S.S. Wainscot
Ceiling: Baked Enamel on Metal
Ceiling Height: 8'-0" (2438 mm)
Load: 5000# Total Capacity
Noise (STC Rating): N/A
Slab Depression: N/A
Special Construction: -
Hardware: -
Doors: See SD 14210-3.DWG and 14210-4.DWG
Windows: None

Electrical:
Lighting Levels:
  Gen. Illum: 20fc
Emergency Power:
  Emergency Light
  2-Way Communication System
  Sufficient power to return car to grade
21. Main Entrance and Canopy Section

The SCI Main Entrance is to be dedicated to SCI traffic only. Ideally it should be located away from other traffic patterns. In addition to drop-off capabilities, the SCI Entrance must accommodate those patients who drive themselves to the SCI Center and require assistance in entering the building. Those who drive will usually pull up to the front door and announce their arrival on the 2-way communication system. They will then drive to the nearby SCI dedicated parking lot where assisting staff will meet them.

Note: Section not drawn to scale (NTS)
21. Main Entrance and Canopy Section

Architectural:

Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Veneer Plaster*/Paint
Ceiling: Acoustical Tile
Ceiling Height: 14'-0" (4267 mm)
Noise (STC Rating): 30
Slab Depression: None
Special Construction: -
Hardware: 156 (both doors)
Doors: 2/3'-0" (913 mm) x 7'-0" (2133 mm) metal with full glazing, automatic sliders electric eye, breakaway hardware.

Windows: None Required

HVAC:

Temperature:
  Summer: 78˚F (26˚C) @60%RH
  Winter: 72˚F (22˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Positive (+)
Max Noise Criteria: 45

NOTES:
  1. Allow entrance air to ex-filtrate when the entrance door is open.

Electrical:

Lighting Levels:
  Gen. Illum:
    In airlock: 20fc
    Under canopy: 10fc

Equipment Table:
As required.
3.3 Clinical Guideplates*

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Guideplates are graphical representations of selected room types that illustrate the integration of space, components, systems and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library (TIL).
22. Urodynamics: Exam / Treatment Room (EXUD1)
Floor Plan

13'-1" (3987 mm)

VACUUM BOTTLE BRACKET
VACUUM OUTLET
MEDICAL AIR OUTLET
OXYGEN OUTLET
HOSPITAL BED W / TRAPEZE (VV)

SPHYGMOMANOMETER (VV)

INSTRUMENT & DRESSING CABINET (VV)
MOBILE CART (VV)
SOAP DISPENSER (VV)

WASTE RECEPTACLE (VV)
CLOCK (VV)

WRITING DESK & CHAIR (VV)

COMBO PAPER TOWEL DISPENSER/DISPOSER (VC)
P 418 LAVATORY

5'-6"
(1676 mm)

180 NSF (16.8 NSM)

1/4" = 1'-0"

Guideplates
22. Urodynamics: Exam / Treatment Room (EXUD1)
Reflected Ceiling Plan

*MOBILE / UNIVERSAL TRACK LIFT

RETURN REGISTER

CEILING MOUNTED FLUORESCENT LIGHT (TYP)

*SINGLE TRACK LIFT

SUPPLY DIFFUSER

N - NURSE CALL LIGHT

NOTE: * BOTH SINGLE TRACK & MOBILE OR UNIVERSAL TRACK LIFT SYSTEMS ARE INDICATED IN THE PLAN AS AN OPTION. THE TYPE OF LIFT TO BE USED ON SPECIFIC PROJECT IS TO BE SPECIFIED / SELECTED BY THE VA CENTER OR STATION. LOCATIONS OF SINGLE TRACK LIFT RAILS AND LIGHTING FIXTURES MUST BE COORDINATED BY PROJECT DESIGNER

180 NSF (16.8 NSM)

1/4" = 1'-0"

Guideplates 3 - 94
22. Urodynamics: Exam/Treatment Room (EXUD1)

Space Requirement:
180 NSF (16.8 NSM)

Architectural:
- Floor Finish: Vinyl Composition Tile
- Base: Vinyl
- Wall Finish: Gypsum Wallboard/Paint
- Ceiling: Gypsum Wallboard or Clipped down ACT w/ Smooth, Washable Surface
- Ceiling Height: 9'-0" (2743 mm)
- Noise (STC Rating): 40
- Slab Depression: None
- Special Construction: -
- Hardware: 53
- Doors: 4'-0" (1219 mm) x 7'-0" (2133 mm) wood or metal
- Windows: None Required

HVAC:
- Temperature/Humidity:
  - Summer: 72˚F (22˚C) @60%RH
  - Winter: 82˚F (28˚C) @20%RH
- Min. Air Changes/Hour: 6 ACH
- Pressure: Neutral (0)
- Max Noise Criteria: 35

Electrical:
- Lighting Levels:
  - Two-Level Illumination:
    - High: 100 fc
    - Low: 50 fc
- Emergency Power:
  - One Ceiling Light
  - One Receptacle (near bed)
  - Nurse Call
  - Medical Gases
## 22. Urodynamics: Exam/Treatment Room (EXUD1)

### Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
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<tr>
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<td>1</td>
<td>CC</td>
<td>LAVATORY, ELECTRONIC SENSOR CONTROL FAUCET WITH RIGID GOOSENECK SPOUT, 20&quot; X 18&quot; &amp; 3-1/2&quot; APRON (PG-18-1, MCS 15450)</td>
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<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>DISPENSER, SOAP WITH FOOT CONTROL, WALL MOUNTED OVER SINK (PG-18-1, MCS 10800)</td>
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<tr>
<td>1</td>
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<td>CC</td>
<td>DISPENSER, PAPER TOWEL AND DISPOSAL COMBINATION UNITS (PG-18-1, MCS 10800)</td>
</tr>
<tr>
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<td>1</td>
<td>VV</td>
<td>HOSPITAL BED, ELECTRONICALLY ADJUSTABLE, TRAPEZE OVERHEAD (PG-18-1, MCS 05500)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VV</td>
<td>CABINET, INSTRUMENT AND DRESSING, APPROX. 30&quot;W X 16&quot;D X 60&quot;H</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VV</td>
<td>CART, MOBILE, 18&quot;W X 30&quot;L X 36&quot;H</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>VV</td>
<td>ILLUMINATOR, X-RAY FILM, WALL SURFACE MOUNTED, 120 VOLT, 150 WATTS, INDIVIDUAL SWITCH FOR TWO 14&quot; X 17&quot; RADIOGRAPHS, 31&quot;W X 20&quot;H</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP, ON WALL, 48&quot; ABOVE FINISHED FLOOR FOR ABOVE EQUIPMENT (PG-18-1, MCS 16140)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>CEILING MOUNTED LIFT WITH TRACK</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>OUTLET, WALL OXYGEN (PG-18-1, MCS 15312) PG-18-3, TOPIC 1, CODES AND STANDARDS</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>OUTLET, WALL, COMPRESSED AIR, (PG-18-1, MCS 15311) PG-18-3, TOPIC 1, CODES AND STANDARDS</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>OUTLET, WALL, VACUUM (PG-18-1, MCS 15313) PG-18-3, TOPIC 1, CODES AND STANDARDS</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>BRACKET, VACUUM BOTTLE SLIDE, 4 9/16&quot; X 4½&quot; (PG-18-1, MCS 15313)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>NURSE CALL-EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (PG-18-1, MCS 16761)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX GFI, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VV</td>
<td>DESK, WITH DRAWERS AND BOOKSHELF, APPROX. 24&quot;D X 36&quot;L X 29&quot;H</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VV</td>
<td>CHAIR, ROTARY, WITHOUT ARMS</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VV</td>
<td>SPHYGOMANOMETER, WALL HUNG</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VV</td>
<td>RECEPTACLE, WASTE 13&quot; DIAMETER</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>LIGHT FLUORESCENT GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>VV</td>
<td>CLOCK, BATTERY</td>
</tr>
</tbody>
</table>

### TABLE 3.22

**URODYNAMICS: EXAM/TREATMENT ROOM (EXUD1)**
23-a. Urodynamics: Cystoscopy / Lithotripsy (XDCY1)

Floor Plan

[Total: 500 NSF (46.5 NSM)]
Cystoscopy / Lithotripsy: 420 NSF (39.0 NSM)
Control: 80 NSF (7.5 NSM)

3/16” = 1’-0”
23-a. Urodynamics: Cystoscopy/Lithotripsy (XDCY1)
Reflected Ceiling Plan

ANESTHESIA COLUMN
NURSE CALL LIGHT

EXHAUST CHASE

PATIENT LIFT SINGLE TRACK

CEILING-MOUNTED FLUORESCENT (TYP)

HVAC SUPPLY SUPPLY DIFFUSER (TYP)
RETURN / EXHAUST CHASE
PENDANT SURGICAL LAMP

[Total: 500 NSF (46.5 NSM)]
Cystoscopy / Lithotripsy: 420 NSF (39.0 NSM)
Control: 80 NSF (7.5 NSM)

3/16" = 1'-0"
23-a. **Urodynamics: Cystostcopy/Lithotripsy (XDCY1)**

**Space Requirement:**
[Total: 500 NSF (46.5 NSM)]
Cystoscopy/Lithotripsy: 420 NSF (39.0 NSM)
Control: 80 (7.5 NSM)

**Architectural:**
- **Floor Finish:** Resilient Sheet*
- **Base:** Resilient Sheet*
- **Wall Finish:** Plaster/Special Coating**
- **Ceiling:** Plaster/Paint
- **Ceiling Height:** 9'-0" (2743 mm) Minimum, 9'-6" (2896 mm) Recommended (Surgical Lamp)
- **Noise (STC Rating):** 30
- **Slab Depression:** Delay installation of room finishes and topping slab until radiological equipment has been selected.
- **Special Construction:** Radiation Shielding, see SD 08110-3.DWG, 13091-1.DWG and 13091-2.DWG
  Membrane Waterproofing required at floor drain.
- **Hardware:** 106
- **Doors:** 4'-0" (1219 mm) x 7'-0" (2133 mm) wood, lead-lined, automatic double doors, optional lead glass view panel.
- **Windows:** None

*Heat-Welded Seams, see Master specifications #09666
**See Master specifications #09815

**HVAC:**
- **Temperature/Humidity:**
  - **Summer:** 66˚F (19˚C) @60%RH
  - **Winter:** 66˚F (19˚C) @20%RH
- **Min. Air Changes/Hour:** 15 ACH
- **Pressure:** Positive (+)
- **Max Noise Criteria:** 35

**Electrical:**
- **Lighting Levels:**
  - **Two-Level Illumination:**
    - **High:** 100fc
    - **Low:** 50fc
- **Emergency Power:**
  - Surgical Light
  - One Isolated Receptacle @each wall
  - Nurse Call
  - Anesthesia Column – 2 outlets
### 23-a. Urodynamics: Cystostcopy/Lithotripsy (XDCY1)

**Equipment Table:**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>COLUMN, CEILING MOUNTED (H-08-1, MCS 15320) (LOCATE AT HEAD OF TABLE 4' TO 6' FROM THE CENTERLINE AND 2' TO 4' TO THE LEFT OF THE CENTERLINE OF THE TABLE) COLUMN CONTAINS THE FOLLOWING: 1 OUTLET, NITROUS OXIDE (PG-18-1, MCS 15315) 2 OUTLET, VACUUM (PG-18-1, MCS 15213) 3 OUTLET, OXYGEN (PG-18-1, MCS 15312) 1 OUTLET, MEDICAL AIR (PG-18-1, MCS 15311) 1 OUTLET, NITROGEN (PG-18-1, MCS 15317) 1 OUTLET, VACUUM, DEDICATED ANESTHESIA GAS EVACUATION (PG-18-1, MCS 15313) DATA OUTLET</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>LIGHT, SMALL, SURGICAL WITH VARIABLE INTENSITY CONTROL, SINGLE POINT SUSPENSION, CEILING MOUNTED, TYPE 8048 (LOCATION INSTRUCTIONS AVAILABLE FROM ELECTRICAL SERVICE) (PG-18-1, MCS 16515)</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>VV</td>
<td>ILLUMINATOR, X-RAY, 14&quot; X 17&quot; WALL (SURFACE) MOUNTED 120 VOLT, 20 AMP</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>OUTLET, INTERCOM (EMPTY CONDUIT SYSTEM) (PG-18-1, MCS 16111)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>INTERCOM, STATION (PG-18-1, MCS 16760)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VV</td>
<td>CALL, NURSES-EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (PG-18-1, MCS 16761)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>COUNTER, CORROSION RESISTING STEEL TOP AND SPLASHBACKS, OPEN BELOW, 22&quot;D X 36&quot;H X LENGTH AS REQUIRED (PG-18-1, MCS 12301)</td>
</tr>
<tr>
<td>VL8/8A</td>
<td>AR</td>
<td>CC</td>
<td>CABINET, UNDERCOUNTER, WITH 1 DRAWER, 1 DOOR AND 1 ADJUSTABLE SHELF, AVAILABLE WIDTHS, 12&quot; X 18&quot;, 24&quot;; DEPTH 22&quot; HEIGHTS 31&quot;, 25&quot;, FOR FLOOR MOUNTED AND ADD 5&quot; TOE BASE (PG-18-1, MCS 12345; H-08-6)</td>
</tr>
<tr>
<td>VL501/501A</td>
<td>AR</td>
<td>CC</td>
<td>CABINET, UNDERCOUNTER, WITH 6/5 DRAWERS, 1 DOOR AND 1 ADJUSTABLE SHELF, AVAILABLE WIDTHS 36&quot;, 48&quot;; DEPTH 22&quot;; HEIGHTS 31&quot;, 25&quot;, FOR FLOOR MOUNTED AND ADD 5&quot; TOE BASE (PG-18-1, MCS 12345)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VC</td>
<td>TABLE, UROLOGICAL RADIOGRAPHIC, MOTOR DRIVEN, WITH X-RAY TUBE SUPPORT, MOBILE, LITHOTRIPTOR INTEGRATED WITH TABLE</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VC</td>
<td>C-ARM X-RAY MOUNTED ON UROLOGICAL UNIT</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>DRAIN, FLOOR, AUTOMATIC FLUSHING TYPE (PG-18-1, MCS 15400; PG-18-4, SD 15400-1.DWG)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VC</td>
<td>RADIOGRAPHIC TUBE AND HIGH VOLTAGE CABLES, 500 MA, SINGLE PHASE</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VC</td>
<td>TRANSFORMER, RADIOGRAPHIC, FOR USE WITH UROLOGICAL TABLE, 50 KVA</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VV</td>
<td>CLOCK, ELECTRIC TIME ELAPSED</td>
</tr>
</tbody>
</table>

**Note:** The following equipment is provided for the control room. When two cystoscopic rooms are provided for the project, a common control room will be acceptable. And a single X-ray generator will be installed to energize both cystoscopic tables. An additional lead glass viewing window will be required for the second room. Where two cystoscopic tables are installed in one room, provide one X-ray generator. Provide radiation protection between tables.

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>WINDOW, VIEWING, LEAD GLASS, FOR PATIENT OBSERVATION (PG-18-1, MCS 13091)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VC</td>
<td>CONTROL CONSOLE, MONITORS AND IMAGER</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>STATION, INTERCOM, IN CONTROL ROOM – SPEAKER IN CYSTOSCOPIC ROOM (PG-18-1, MCS 16760)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>OUTLET, INTERCOM (EMPTY CONDUIT SYSTEM) (PG-18-1, MCS 16111)</td>
</tr>
</tbody>
</table>

**Table 3.23a**

**URODYNAMICS: CYSTOSTCOPY/LITHOTRIPSY (XDCY1)**
# 23-a. Urodynamics: Cystostcopy/Lithotripsy (XDCY1)

## Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
<td>C</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CR CC SERVICES, ELECTRICAL, SPECIAL AS REQUIRED FOR THE ABOVE EQUIPMENT (THE X-RAY TRANSFORMER MAY BE LOCATED OUTSIDE THE CYSTOSCOPIC ROOM, PROVIDED THE DISTANCE DOES NOT EXCEED THAT PRESCRIBED BY THE EQUIPMENT MANUFACTURERS. X-RAY TRANSFORMERS SHOULD NOT BE SUSPENDED FROM CEILING OR WALL MOUNTS)</td>
<td></td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC SHIELDING, RADIATION, FOR ROOMS WITH FIXED X-RAY EQUIPMENT, IN ACCORDANCE WITH (PG-18-1, MCS 13091; H-08-3, CS 64-1; H-08-4, SD 24, 24K AND NCRP REPORT NO. 49)</td>
<td></td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>VV RECEPTACLE, WASTE, STEP ON TYPE, APPROX. 12&quot; DIAMETER</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>CC ISOLATED POWER UNIT PROVIDES ISOLATED ELECTRICAL POWER, INCLUDES LINE ISOLATION MONITOR, ISOLATION TRANSFORMER AND CIRCUIT BREAKERS (DETAILS AVAILABLE FROM ELECTRICAL SERVICE)</td>
</tr>
<tr>
<td>VL20/20A</td>
<td>1</td>
<td>1</td>
<td>CC CABINET, UNDERCOUNTER, SINK UNIT, 2 HINGED PANEL DOORS, AVAILABLE WIDTHS 30&quot;, 36&quot;, 42&quot;, 48&quot;; DEPTH 22&quot;; HEIGHTS 31&quot;, 25&quot;, FOR FLOOR MOUNTED AND 5&quot; TOE BASE (PG-18-1, MCS 12345)</td>
</tr>
<tr>
<td>J-2</td>
<td>1</td>
<td>1</td>
<td>CC SINK, CORROSION RESISTING STEEL, WITH CENTER DRAIN OUTLET, 18&quot; X 15&quot; X 8&quot; DEEP (PG-18-1, MCS 11602)</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>VV DISPENSER, SOAP, LIQUID WALL MOUNTED</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>VV DISPENSER, PAPER TOWEL, SURFACE MOUNTED</td>
</tr>
<tr>
<td>VL26</td>
<td>AR</td>
<td>AR</td>
<td>CC CABINET, WALL WITH SLOPING TOP, 2 GLAZED SLIDING DOORS AND 2 ADJUSTABLE SHELVES, AVAILABLE WIDTHS 30&quot;, 36&quot;, 42&quot;, 48&quot;; DEPTH 16&quot;; HEIGHT 48&quot; (H-08-1, MCS 12345)</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>VV CLOCK, ELECTRIC WITH SWEEP SECOND HAND</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC LIGHT FLUORESCENT GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
<td></td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC FIRE ALARM STATION, AUDIO &amp; VISUAL DEVICE WALL MOUNTED (PG-18-1, MCS 16721)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2</td>
<td>CC AUTOMATIC DOOR ACTIVATOR</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>VV THERMAL BLANKET MACHINE, MOBILE</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>VV ANESTHESIA MACHINE, ANESTHESIA CART, SURGICAL CASE CART</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>VV ELECTROSURGICAL UNIT</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>VV LINEN HAMPER</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>VV PHYSIOLOGICAL MONITORING SYSTEMS ON CART OR CEILING ARM MOUNTED</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>VV COMPUTER TERMINAL, CPU WITH KEYBOARD AND MONITOR, MOBILE OR MOUNTED ON SHELF, WALL MOUNTED</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>VV LEAD APRON RACK, APRONS</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>VV EMERGENCY &quot;CRASH&quot; CART WITH DEFIBRILATOR</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>CC DOUBLE SCRUB SINK, WITH KNEE CONTROL</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>CC STAINLESS STEEL SHELF ABOVE SINK, 8&quot; DEEP</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2</td>
<td>VV SOAP DISPENSER, KNEE (OR) FOOT CONTROL IF NOT INTEGRAL SINK</td>
</tr>
</tbody>
</table>

**TABLE 3.23a (CONT'D)**

URODYNAMICS: CYSTOSTCOPY/LITHOTRIPSY (XDCY1)
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23-b. Urodymanics: Storage and Instrument Cleaning Room (SRS01)

Floor Plan

[Total: 400 NSF (37.2 NSM)]
Cystoscopy / Lithotripsy Storage: 258 NSF (24.0 NSM)
Instrument Cleaning: 142 NSF (13.2 NSM)
23-b. Urodynamics Storage and Instrument Cleaning Room (SRS01)
Reflected Ceiling Plan

[Total: 400 NSF (37.2 NSM)]
Cystoscopy / Lithotripsy Storage: 258 NSF (24.0 NSM)
Instrument Cleaning: 142 NSF (13.2 NSM)
23-b. **Urodynamics: Storage and Instrument Cleaning Room (SRS01)**

**Space Requirement:**
[Total: 400 NSF (37.2 NSM)]
Cystoscopy/Lithotripsy Storage: 258 NSF (24.0 NSM)
Instrument Cleaning: 142 NSF (13.2 NSM)

**Architectural:**
Floor Finish: Resilient Sheet*
Base: Resilient Sheet*
Wall Finish: Plaster/Special Coating**
Ceiling: Plaster/Paint
Ceiling Height: 9'-0" (2743 mm)
Noise (STC Rating): 30
Special Construction: Radiation Shielding, see SD 08110-3.DWG, 13091-1.DWG and 13091-2.DWG

Hardware: 106
Doors: 4'-0" (1219 mm) x 7'-0" (2133 mm) wood, lead-lined, optional lead glass view panel.
Windows: None

*Heat-Welded Seams, see Master specifications #09666
**See Master specifications #09815

**HVAC:**
Temperature/Humidity:
Summer: 72˚F (22˚C) @60%RH
Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 10 ACH for Instrument Cleaning Room
6 ACH for Storage
Pressure: Negative (--) for Instrument Cleaning Room
Positive (+) for Storage
Max Noise Criteria: 40

**Electrical:**
Lighting Levels:
Two-Level Illumination:
High: 100fc
Low: 50fc
Emergency Power:
One Isolated Receptacle at Instrument Processing
One ceiling-light fixture
### 23-b. Urodynamics: Storage and Instrument Cleaning Room (SRS01)

**Equipment Table:**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>1 1</td>
<td>CC</td>
<td>COUNTER, CORROSION RESISTING STEEL TOP AND SPLASHBACKS, OPEN BELOW, 30&quot;D X 36&quot;H X LENGTH AS REQUIRED (PG-18-1, MCS 12301)</td>
<td></td>
</tr>
<tr>
<td>AR AR</td>
<td>CC</td>
<td>CABINET, UNDERCOUNTER, WITH 1 DRAWER, 1 DOOR AND 1 ADJUSTABLE SHELF, AVAILABLE WIDTHS, 12&quot; X 18&quot;, 24&quot;; DEPTH 22&quot; HEIGHTS 31&quot;, 25&quot;, FOR FLOOR MOUNTED ADD 5&quot; TOE BASE (PG-18-1, MCS 12345; H-08-6)</td>
<td></td>
</tr>
<tr>
<td>AR AR</td>
<td>CC</td>
<td>CABINET, UNDERCOUNTER, WITH 6/5 DRAWERS, 1 DOOR AND 1 ADJUSTABLE SHELF, AVAILABLE WIDTHS 36&quot;, 48&quot;; DEPTH 22&quot;; HEIGHTS 31&quot;, 25&quot;, FOR FLOOR MOUNTED AND ADD 5&quot; TOE BASE (PG-18-1, MCS 12345)</td>
<td></td>
</tr>
<tr>
<td>1 1</td>
<td>CC</td>
<td>DUAL SINKS, CORROSION RESISTING STEEL, WITH CENTER DRAIN OUTLET, 18&quot; X 15&quot; X 12&quot; DEEP (PG-18-1, MCS 11602)</td>
<td></td>
</tr>
<tr>
<td>1 1</td>
<td>VV</td>
<td>DISPENSER, SOAP, LIQUID WALL MOUNTED</td>
<td></td>
</tr>
<tr>
<td>1 1</td>
<td>VV</td>
<td>DISPENSER, PAPER TOWEL, SURFACE MOUNTED</td>
<td></td>
</tr>
<tr>
<td>AR AR</td>
<td>CC</td>
<td>CABINET, WALL WITH SLOPING TOP, 2 GLAZED SLIDING DOORS AND 2 ADJUSTABLE SHELVES, AVAILABLE WIDTHS 30&quot;, 36&quot;, 42&quot;, 48&quot;; DEPTH 16&quot;; HEIGHT 48&quot; (H-08-1, MCS 12345)</td>
<td></td>
</tr>
<tr>
<td>1 1</td>
<td>CC</td>
<td>CABINET, UNDERCOUNTER, WITH 5/4 DRAWERS, AVAILABLE WIDTHS 18&quot;, 24&quot;, 36&quot;, 48&quot;; DEPTH 22&quot;; HEIGHTS 31&quot;, 25&quot;, FOR FLOOR MOUNTED ADD 5&quot; TOE BASE (PG-18-1, MCS 12345)</td>
<td></td>
</tr>
<tr>
<td>AR AR</td>
<td>VC</td>
<td>CABINET, SOLUTION WARMING, UNDERCOUNTER, ELECTRIC, STAINLESS STEEL, APPROX 30&quot;W X 18&quot;D X 29&quot;H</td>
<td></td>
</tr>
<tr>
<td>1 1</td>
<td>CC</td>
<td>LITHOTRIPTER, MOBILE, 30&quot; X 60&quot;</td>
<td></td>
</tr>
<tr>
<td>AR AR</td>
<td>CC</td>
<td>MOBILE CART, 20&quot; X 30&quot;</td>
<td></td>
</tr>
<tr>
<td>AR AR</td>
<td>CC</td>
<td>AUTOMATIC ENDOSCOPE STERILIZATION MACHINE, COUNTER MODEL, 36&quot; X 30&quot; D, WITH WATER FILTERATION SYSTEM</td>
<td></td>
</tr>
<tr>
<td>1 1</td>
<td>VV</td>
<td>WIRE STORAGE RACK; 13&quot; X 36&quot; W</td>
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</tr>
</tbody>
</table>

**TABLE 3.23b**

**URODYNAMICS: STORAGE AND INSTRUMENT CLEANING ROOM (SRS01)**
24. Urodynamics: Recovery Room (RRSS1)

Floor Plan

300 NSF (27.9 NSM)

1/4" = 1'-0"
24. Urodynamics: Recovery Room (RRSS1)
Reflected Ceiling Plan

NOTE: * BOTH SINGLE TRACK & MOVABLE OR UNIVERSAL TRACK LIFT SYSTEMS ARE INDICATED IN THE PLAN AS AN OPTION. THE TYPE OF LIFT TO BE USED ON A SPECIFIC PROJECT IS TO BE SPECIFIED / SELECTED BY THE VA CENTER OR STATION.

300 NSF (27.9 NSM)

1/4" = 1'-0"

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24. **Urodynamics: Recovery Room (RRSS1)**

**Space Requirement:**
300 NSF (27.9 NSM)

**Architectural:**
- Floor Finish: Vinyl Composition Tile
- Base: Vinyl
- Wall Finish: Veneer Plaster/Paint
- Ceiling: Acoustical Tile
- Ceiling Height: 9'-0" (2743 mm)
- Noise (STC Rating): 35
- Slab Depression: None
- Special Construction: -
- Hardware: 69
- Doors: 4'-0" (1219 mm) x 7'-0" (2133 mm) wood or metal, optional glass view panel.
- Windows: None Required

**HVAC:**
- Temperature/Humidity:
  - Summer: 72˚F (22˚C) @60%RH
  - Winter: 82˚F (28˚C) @20%RH
- Min. Air Changes/Hour: 6 ACH
- Pressure: Neutral (o)
- Max Noise Criteria: 35

**Electrical:**
- Lighting Levels:
  - Gen. Illum: 30fc
  - Over Bed: 100fc
- Emergency Power:
  - Overbed Lights
  - One Receptacle per PBPU
  - Nurse Call
  - Medical Gases
## 24. Urodynamics: Recovery Room (RRSS1)

### Equipment Table:

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<tr>
<th>SYMBOL</th>
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<th>DESCRIPTION</th>
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<td>D</td>
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<td>BED OR STRETCHER, RECOVERY APPROX. 30” W X 80” L</td>
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<td>SPHYGMOMANOMETER, WALL HUNG</td>
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<td>TRACK, CURTAIN, CUBICLE - EACH BED (PG-18-1, MCS 10152)</td>
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<td>CURTAIN, CUBICLE</td>
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<td>PREFABRICATED BEDSIDE POWER UNIT: TYPE 2A</td>
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<td>T-1A</td>
<td>2</td>
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<td>CABINET, BASE, WITH 2 DRAWERS, 2 HINGED DOORS AND 1 ADJUSTABLE SHELF, 36”W X 22”D X 36”H, CORROSION RESISTING STEEL TOP AND SLIDING DOORS AND 2 ADJUSTABLE GLASS SHELVES (PG-18-1, MCS 12301)</td>
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<tr>
<td>P418</td>
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<td>LAVATORY, STRAIGHT BACK, ELECTRONIC TEMPERED FAUCET, 20” X 18” AND 3 1/2” APRON (PG-18-1, MCS 15450)</td>
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<td>DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
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<td>CC</td>
<td>DISPENSER, PAPER TOWEL AND DISPOSAL COMBINATION UNITS (PG-18-1, MCS 10800)</td>
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<tr>
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<td>CC</td>
<td>CALL, NURSES-EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (PG-18-1, MCS 16767)</td>
</tr>
<tr>
<td>AR</td>
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<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX GFI, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
</tr>
<tr>
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<td>1</td>
<td>VV</td>
<td>RECEPTACLE, WASTE</td>
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**TABLE 3.24**  
**URODYNAMICS: RECOVERY ROOM (RRSS1)**
25. Urodyanamics: Dressing Room / Cubicle (DR001)
Floor Plan

ACCESSIBLE LOCKER
48" (1219 mm) HEIGHT

HOSPITAL BED (VV)

CLOTHES HOOK

100 NSF (9.3 NSM)

1/4" = 1'-0"

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25. Urodynamics: Dressing Room / Cubicle (DR001)
Reflected Ceiling Plan

100 NSF (9.3 NSM)

1/4" = 1'-0"

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25. **Urodyamics: Dressing Room/Cubicle (DR001)**

**Space Requirement:**
100 NSF (9.3 NSM)

**Architectural:**
- **Floor Finish:** Vinyl Composition Tile
- **Base:** Vinyl
- **Wall Finish:** Gypsum Wallboard/Paint
- **Ceiling:** Acoustical Tile
- **Ceiling Height:** 9'-0" (2743 mm)
- **Noise (STC Rating):** 30
- **Slab Depression:** None
- **Special Construction:** -
- **Hardware:** 7
- **Doors:** 4'-0" (1219 mm) x 7'-0" (2133 mm) wood or metal
- **Windows:** None

**HVAC:**
- **Temperature/Humidity:**
  - Summer: 72°F (22°C) @60%RH
  - Winter: 82°F (28°C) @20%RH
- **Min. Air Changes/Hour:** 6 ACH
- **Pressure:** Neutral (0)
- **Max Noise Criteria:** 40

**Electrical:**
- **Lighting Levels:**
  - Gen. Illum: 10fc
- **Emergency Power:**
  - One Ceiling Light
  - Nurse Call
# 25. Urodynamics: Dressing Room/Cubicle (DR001)

## Equipment Table:

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<thead>
<tr>
<th>SYMBOL</th>
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<td>LOCKER, STEEL, SLOPING TOP, 12”WX 21”D X 72” H (PG-18-1, MCS 10500)</td>
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<td>BED, HOSPITAL ADJUSTABLE</td>
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<td>CC</td>
<td>TRAPEZE, OVERHEAD (PG-18-1, MCS 05500 ; H-08-4)</td>
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<td>CC</td>
<td>NURSE CALL – EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (PG-18-1, MCS 16761)</td>
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<tr>
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<td></td>
<td>CC</td>
<td>HOOK, CLOTHES (PG-18-1, MCS 10800)</td>
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<td></td>
<td></td>
<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
</tr>
<tr>
<td></td>
<td>AR</td>
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<td></td>
<td></td>
<td></td>
<td>CC</td>
<td>LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
</tr>
</tbody>
</table>

**TABLE 3.25**

URODYNAMICS: DRESSING ROOM/CUBICLE (DR001)
26. Urodynamics: Nurse Station (NSTA1)

Floor Plan

- Nurse Call Console
- High Counter at 42" (1066 mm) High
- Chair (VV)
- Computer Terminal (VV)
- Time/Date Stamp
- Monitor
- Wheelchair User Space 30" (762 mm) AFF
- Medical Gases Alarm
- Bulletin Board
- Crash Cart (VV)
- Computer Printer (VV)
- Monitor
- Computer Terminal (VV)
- Filing Cabinet
- Optional Pneumatic Tube Station
- Clock

150 NSF (13.9 NSM)
26. Urodynamics: Nurse Station (NSTA1)
Reflected Ceiling Plan
26. Urodynamics: Nurse Station (NSTA1)

Space Requirement:
150 NSF (13.9 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Veneer Plaster/Vinyl Fabrication
Ceiling: Acoustical Tile/Painted Gypsum Soffit
Ceiling Height: 9'-0" (2743 mm)
Noise (STC Rating): N/A
Slab Depression: None
Special Construction: -
Hardware: -
Doors: None
Windows: None

HVAC:
Temperature/Humidity:
   Summer: 72˚F (22˚C) @60%RH
   Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Neutral (0)
Max Noise Criteria: 40

Electrical:
Lighting Levels:
   Gen. Illum: 30fc
   Task Illum: 70fc
Emergency Power:
   Task Illumination
   One Receptacle
   Nurse Call
   Medical Gas Alarms
## 26. Urodynamics: Nurse Station (NSTA1)

### Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
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<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>COUNTER TOP, HIGH PRESSURE LAMINATE, 30&quot;H, WITH 30&quot;H DESK BUILT IN, INDIVIDUAL SINGLE DRAWERS BELOW FULL LENGTH OF COUNTER AND PIGEON-HOLE FILES BELOW AS REQUIRED, SIZE ACCORDING TO INDIVIDUAL PROJECT DESIGN (PG-18-1, MCS 12302)</td>
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<td>CC</td>
<td>NURSE CALL, CONSOLE, ANNUNCIATOR, AUDIO VISUAL DESK TYPE (PG-18-1, MCS 16761)</td>
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<td>VV</td>
<td>CLOCK BATTERY OPERATED</td>
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<td>AR</td>
<td>AR</td>
<td>VV</td>
<td>CHAIR, ROTARY WITHOUT ARMS</td>
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<tr>
<td>AR</td>
<td>AR</td>
<td>VV</td>
<td>CABINET, FILING, UNDERCOUNTER</td>
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<tr>
<td>1</td>
<td>1</td>
<td>CC</td>
<td>FIRE ALARM STATION, AUDIO &amp; VISUAL DEVICE, WALL MOUNTED (PG-18-1, MCS 16721)</td>
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<td>ALARM, AIR, OXYGEN AND VACUUM FAILURE, WALL MOUNTED (PG-18-1, MCS 15550)</td>
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<td>STATION, PNEUMATIC TUBE (DETERMINED ON INDIVIDUAL BASIS) (PG-18-1, MCS 14581)</td>
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<td>CART, EMERGENCY, &quot;CRASH CART&quot; APPROX. 36&quot;W X 21&quot;D</td>
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<tr>
<td>1</td>
<td>1</td>
<td>VV</td>
<td>PRINTER, COMPUTER SYSTEM</td>
</tr>
<tr>
<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>RECEPTACLE, ELECTRICAL DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
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<td>LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510) DOWN LIGHTING, SOFFIT LIGHTING</td>
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<td>KEYBOARD TRAYS</td>
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<td>VV</td>
<td>BULLETIN BOARD, 60&quot;W X 36&quot;H</td>
</tr>
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</table>

### TABLE 3.26

URODYNAMICS: NURSE STATION (NSTA1)
27. Outpatient Urodynamics Clinic Clean Utility Room (UCCL1)
Floor Plan

WASTE RECEPTACLE (VV)

BASE & WALL CABINETS
42" (1066 mm) AFF

WALL-MOUNTED SHELVING

INTERMITTENT CATHETERIZATION CART (VV)

120 NSF (11.2 NSM)
27. Outpatient Urodynamics Clinic Clean Utility Room (UCCL1)
Reflected Ceiling Plan

- HVAC SUPPLY
- CEILING MOUNTED FLUORESCENT LIGHT FIXTURES (TYP)
- HVAC RETURN

120 NSF (11.2 NSM)

1/4" = 1'-0"
27. Outpatient Urodynamics Clinic
Clean Utility Room (UCCL1)

Space Requirement:
120 NSF (11.2 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Veneer Plaster*
Ceiling: Gypsum Wallboard/Paint
Ceiling Height: 9'-0" (2743 mm)
Noise (STC Rating): 30
Slab Depression: None
Special Construction: One Hour Fire-Rated enclosure plus sprinklers.
Hardware: 43
Doors: 3'-8" (1117 mm) x 7'-0" (2133 mm) wood or metal, optional wireglass view panel,
"C" Label.
Windows: None

*Special Coating, see Master specifications #09815

HVAC:
Temperature/Humidity:
  Summer: Not required (note 1)
  Winter: Not required (note 1)
Min. Air Changes/Hour: 4 ACH
Pressure: Positive (+)
Max Noise Criteria: 35

NOTES:
  1. Since room temperature control is not required, Temperature/Humidity is not listed.

Electrical:
Lighting Levels:
  Gen. Illum: 10fc
Emergency Power:
  Nurse Call
## 27. Outpatient Urodynamics Clinic

### Clean Utility Room (UCCL1)

### Equipment Table:

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<th>SYMBOL</th>
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<td>CC CABINET, BASE, WITH 2 DRAWERS, 2 HINGED DOORS AND 1 ADJUSTABLE SHELF, 36&quot;W X 22&quot;D X 36&quot;H, CORROSION RESISTING STEEL TOP AND SPLASHBACKS, WITH WALL CABINET ABOVE WITH SLOPING TOP, 2 GLAZED SLIDING DOORS AND 2 ADJUSTABLE GLASS SHELVES (PG-18-1, MCS 12301)</td>
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<td>T-7A</td>
<td>AR</td>
<td>AR</td>
<td>CC SHELVING, WALL HUNG, STEEL, WITH ADJUSTABLE SHELVES, 36&quot;W X 16&quot;D X 24&quot;H (PG-18-1, MCS 12301)</td>
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<td>VV RECEPTACLE, WASTE, STEP ON TYPE, APPROX. 12&quot; DIAMETER</td>
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<td>CART, MEDICAL, SUPPLY</td>
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<tr>
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<td>CC</td>
<td>LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
</tr>
</tbody>
</table>

### TABLE 3.27

**OUTPATIENT URODYNAMICS CLINIC**

**CLEAN UTILITY ROOM (UCCL1)**
28. Home Environment Learning (XXYYC)

Floor Plan

NOTE: 1- Access to an outdoor recreational area is desirable. Room size is variable, see project-specific program for actual size.

2- Home Environment Learning is designed to provide a transition for the SCI/D patient from the hospital environment to the home environment. This process occurs at the end of acute care and allows the patient to function as if he/she is at home but with the support of acute care staff and programs if needed. Family and/or caregivers are encouraged to occupy this space with the patient in order to simulate what living in the home environment will be like and it should be accessible to the point that a private home would be. Thus, this program will provide "real world" levels of accessibility in order to provide the patient with realistic expectations. Bathrooms should be accessible to the level that is achievable in a private home; but not to the degree that a patient bathroom at the SCI/C Center would be. A removable panel should be provided at the kitchen sink area in order to provide the patient with either fully accessible access to the sink, or a less accessible access to simulate real life situations.

660 NSF (61.3 NSM)
28. Home Environment Learning (XXYYC)
Reflected Ceiling Plan

NOTE: LIGHTING AND HVAC DIFFUSER LOCATIONS AS PER CONVENTIONAL RESIDENTIAL CONSTRUCTION.
28-a. Home Environment Learning - Living/Dining (XXYYC)

Space Requirement:
240 NSF (22.3 NSM)

Architectural:
Floor Finish: Carpet
Base: Vinyl
Wall Finish: GWB-Vinyl Fabric Wall cover
Ceiling: Gypsum Wallboard/ Paint
Ceiling Height: 8’-0” (2438 mm)
Noise (STC Rating): 30
Slab Depression: None
Special Construction: -
Hardware: 23 (Entrance Hall)
Doors: 3’-0” (914 mm) x 7’-0” (2133 mm) wood
Windows: Required

HVAC:
Temperature/Humidity:
    Summer: 72˚F (22˚C) @60%RH
    Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 4 ACH
Pressure: Neutral (0)
Max Noise Criteria: 35

Electrical:
Lighting Levels:
    Varies
Emergency Power:
    Ceiling Light in Central Hall
28-a. Home Environment Learning - Living/Dining (XXYYC)

Equipment Table:

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<td>CHAIR, CUSHION LIFT</td>
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<td>RECEIVER, TELEVISION 120 VOLT, 20 AMP</td>
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<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
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<td>CHAIR, DINING, APPROX 18&quot;W X 18&quot;D</td>
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TABLE 3.28a
HOME ENVIRONMENT LEARNING - LIVING/DINING (XXYYC)
28-b. Home Environment Learning - Kitchen (XXYYC)

Space Requirement:
167 NSF (15.5 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Gypsum Wallboard
Ceiling: Gypsum Wallboard/ Paint
Ceiling Height: 8'-0" (2438 mm)
Noise (STC Rating): 30
Slab Depression: None
Special Construction: -
Hardware: N/A
Doors: Not Required
Windows: Not Required

HVAC:
Temperature:
   Summer: Not required (note 1)
   Winter: Not required (note 1)
Min. Air Changes/Hour: 10 ACH
Pressure: Negative (-)
Max Noise Criteria: 40

NOTES:
   1. Since room temperature control is not required, Temperature/Humidity is not listed.

Electrical:
Lighting Levels:
   Gen. Illum: 30fc
Emergency Power: None
# 28-b. Home Environment Learning - Kitchen (XXYYC)

## Equipment Table:

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<td>MIXER, ELECTRIC, 120 VOLT, 20 AMP</td>
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<td>REFRIGERATOR – FREEZER, DOMESTIC, 120 VOLT, 20 AMP APPROX., 31&quot;W X 28&quot;D X 66&quot;H</td>
</tr>
<tr>
<td>1</td>
<td></td>
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<td>OVEN, ELECTRIC, BUILT IN SINGLE COMPARTMENT, DOMESTIC, 208 VOLT, 25 AMP SINGLE PHASE, SIDE HINGE</td>
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<tr>
<td>1</td>
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<td></td>
<td>RANGE, ELECTRIC, 4 BURNERS, FRONT CONTROLS, DOMESTIC, 208 VOLT, 40 AMP, SINGLE PHASE</td>
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<tr>
<td>AR</td>
<td></td>
<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
</tr>
<tr>
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<td></td>
<td>CC</td>
<td>CABINET, KITCHEN, WALL MOUNTED, DOMESTIC (PG-18-1, MCS 11450 &amp; 11451)</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>CC</td>
<td>CABINET, KITCHEN BASE, WITH WORK TOP AND SINK, DOMESTIC (PG-18-1, MCS 11450 &amp; 11451)</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>VV</td>
<td>CLOCK, BATTERY OPERATED</td>
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</table>

### TABLE 3.28b
HOME ENVIRONMENT LEARNING - KITCHEN (XXYYC)
28-c. Home Environment Learning - Bedroom (XXYYC)

Space Requirement:
169 NSF (15.7 NSM)

Architectural:
- Floor Finish: Carpet
- Base: Vinyl
- Wall Finish: GWB-Vinyl Fabric Wallcover
- Ceiling: Gypsum Wallboard/ Paint
- Ceiling Height: 8'-0" (2438 mm)
- Noise (STC Rating): 30
- Slab Depression: None
- Special Construction: -
- Hardware: 7
- Doors: 3'-0" (914 mm) x 7'-0" (2133 mm) wood
- Windows: Required by Code

HVAC:
- Temperature:
  - Summer: 72˚F (22˚C) @60%RH
  - Winter: 82˚F (28˚C) @20%RH
- Min. Air Changes/Hour: 4 ACH
- Pressure: Neutral (0)
- Max Noise Criteria: 35

Electrical:
- Lighting Levels:
  - Gen. Illum: 20fc
- Emergency Power:
  - Nurse Call
## 28-c. Home Environment Learning - Bedroom (XXYYC)

### Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
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<th>DESCRIPTION</th>
</tr>
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<tr>
<td></td>
<td></td>
<td>A</td>
<td>BED, WITH HEADBOARD AND TRAPEZE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B</td>
<td>DRESSER, WITH MIRROR, SIZE AND REQUIRED</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C</td>
<td>CHAIR, STRAIGHT OR ROTARY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D</td>
<td>NIGHT STAND WITH DRAWER APPROX. 18&quot;W X 18&quot;D X 24&quot;H</td>
</tr>
<tr>
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<td>E</td>
<td>CALL, NURSES-EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (PG-18-1, MCS 16761)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>F</td>
<td>TRAPEZE, OVERHEAD ON BED (PG-18-1, MCS 05500)</td>
</tr>
<tr>
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<td></td>
<td>G</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
</tr>
</tbody>
</table>

### TABLE 3.28c
HOME ENVIRONMENT LEARNING - BEDROOM (XXYYC)
28-d. Home Environment Learning - Bathroom (XXYYC)

Space Requirement:
84 NSF (7.8 NSM)

Architectural:
Floor Finish: Ceramic Tile (slip-resistant)
Base: Ceramic Tile
Wall Finish: GWB/Ceramic Wainscot* 4'-0" (1219 mm)
Ceiling: Gypsum Wallboard/ Paint
Ceiling Height: 8'-0" (2438 mm)
Noise (STC Rating): 30
Slab Depression: None
Special Construction: -
Hardware: 14
Doors: 3'-0' (914 mm) x 7'-0" (2133 mm) wood
Windows: Not Required

HVAC:
Temperature:
   Summer: Not required (note 1)
   Winter: Not required (note 1)
Min. Air Changes/Hour: 10 ACH (100% exhaust)
Pressure: Negative
Noise Criteria: 40

NOTES:
   1. Since room temperature control is not required, Temperature/Humidity is not listed.

Electrical:
Lighting Levels:
   Gen. Illum: 20fc
Emergency Power:
   Nurse Call
   Ceiling Light
# 28-d. Home Environment Learning - Bathroom (XXYYC)

## Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
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<th>DESCRIPTION</th>
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<tr>
<td>P-302</td>
<td>1</td>
<td>CC</td>
<td>TUB, BATH, RECESSED, WITH SHOWER AND PRESSURE BALANCING VALVE, 60&quot; X 30&quot; X 16&quot; (PG-18-1, MCS 15450; PG-18-4, SD 10800-4.DWG)</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>CC</td>
<td>BAR, GRAB, UPRIGHT AND ANGULAR, AROUND TUB (PG-18-1, MCS 10800; PG-18-4, SD 10800-4.DWG)</td>
</tr>
<tr>
<td>P-106</td>
<td>1</td>
<td>CC</td>
<td>WATER CLOSET, FLUSH TANK TYPE (PG-18-1, MCS 15450)</td>
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<tr>
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<td>1</td>
<td>CC</td>
<td>BAR, GRAB FOR WATER CLOSET (PG-18-1, MCS 10800; PG-18-4, SD 10162-1.DWG)</td>
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<tr>
<td>P-413</td>
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<td>LAVATORY, COUNTER MOUNTED, 19&quot; DIAMETER WRIST BLADE HANDLES, GOOSENECK, SPOUT (PG-18-1, MCS 15450)</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>CC</td>
<td>MIRROR, HEAT TEMPERED GLASS, OVER LAVATORY (PG-18-1, MCS 10800; H-08-4, 10800-7.DWG)</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP, WITH GROUND FAULT INTERRUPTER, ADJACENT TO LAVATORY (PG-18-1, MCS 16140)</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>CC</td>
<td>NURSE CALL-EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (PG-18-1, MCS 16761)</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>VV</td>
<td>WASHER, CLOTHES, FRONT LOADING AND FRONT CONTROL COMMERCIAL, 120 VOLT, 20 AMP</td>
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<tr>
<td>P-808</td>
<td>1</td>
<td>CC</td>
<td>WASHING MACHINE SUPPLY AND DRAIN UNITS (PG-18-1, MCS 15450; H-08-4, SD 15400-9.DWG)</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>VV</td>
<td>DRYER, CLOTHES, FRONT LOADING AND FRONT CONTROL COMMERCIAL, 208 VOLT, 30 AMP, SINGLE PHASE</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>CC</td>
<td>RECEPTACLE, ELECTRIC WASHING MACHINE, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
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<tr>
<td></td>
<td>1</td>
<td>CC</td>
<td>RECEPTACLE, ELECTRIC DRYER, 208 VOLT, 40 AMP (PG-18-1, MCS 16140)</td>
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<tr>
<td></td>
<td>1</td>
<td>CC</td>
<td>CONNECTIONS, PLUMBING, ELECTRICAL OR MECHANICAL AS REQUIRED</td>
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</tbody>
</table>

**TABLE 3.28d**

HOME ENVIRONMENT LEARNING - BATHROOM (XXYYC)
29. Physical Therapy / Kinesiology Therapy-30 Beds (PTES1)
Floor Plan

WALL MOUNTED PULLEY (VV)
EXERCYCLE (VV)
LATTISIMUS BAR (VV)
ERGOMETER (VV)

HYDROTHERAPY ACCESS

TRAINING WHEELCHAIR (VV)
FLOOR-MOUNTED RECEPTACLES @ OR NEAR EQUIPMENT WHERE NEEDED
DUMBBELL WAGON (VV)
WEIGHT CART (VV)
PARAFFIN BATH (VV)

OBSERVATION WINDOW SD-11
HOT PACKS (VV)
COLD PACKS (VV)
P-S04 DRINKING FOUNTAIN

OFFICE ACCESS

STORAGE ACCESS
P-414 LAVATORY W/ PAPER TOWEL & SOAP DISPENSER (VV)
WASTE RECEPTACLE
SPHYGMOMANOMETER (VV)
TILT TABLE (VV)
INFRA-RED MACHINE (VV)
MEDICOSONOLATOR (VV)

1700 NSF (157.9 NSM)

5'-3" (1524 mm)
34'-0" (8534 mm)

1/8" = 1'-0"

Guideplates 3 -133
29. Physical Therapy / Kinesiology Therapy-30 Beds (PTES1)
Reflected Ceiling Plan

RETURN REGISTER (TYP)

CEILING MOUNTED FLUORESCENT LIGHT FIXTURES (TYP)

CEILING MOUNTED LIFT TRACK

SUPPLY DIFFUSER (TYP.)

CEILING MOUNTED LIFT TRACK

NURSE CALL LIGHT

1700 NSF (157.9 NSM)

1/8" = 1'-0"
29. Physical Therapy/Kinesiology Therapy - 30 Beds (PTES1)

Space Requirement:
30 SCI Beds or less: 1700 NSF (157.9 NSM)

Architectural:
- Floor Finish: Vinyl Composition Tile
- Base: Vinyl
- Wall Finish: Gypsum Wallboard/Paint
- Ceiling: Acoustical Tile
- Ceiling Height: 9'-6" (2895 mm)
- Noise (STC Rating): 30
- Slab Depression: None
- Special Construction: Wall-mounted pulleys require a reinforced wall with hardwood, Veneer plywood surface; see Master specifications #06200.

Hardware: 82
- Doors: 2@3'-0" (914 mm) x 7'-0" (2133 mm) wood or metal, upper half=laminated safety glass.

Windows: Desirable, see PG-18-3, Topic 1, Codes and Standards

HVAC:
- Temperature/Humidity:
  - Summer: 72˚F (22˚C) @60%RH
  - Winter: 82˚F (28˚C) @20%RH
- Min. Air Changes/Hour: 6 ACH
- Pressure: Neutral (0)
- Max Noise Criteria: 40

Electrical:
- Lighting Levels:
  - Gen. Illum: 30fc
- Emergency Power:
  - One Ceiling Light
  - Nurse Call
### 29. Physical Therapy/Kinesiology Therapy - 30 Beds (PTES1)

**Equipment Table:**

- **A** - Combined Physical and Corrective Therapy Clinics for Spinal Cord Injury/Disorders Centers of 0-30 Beds.
- **B** - Combined Physical and Corrective Therapy Clinics for Spinal Cord Injury/Disorders Centers of 31-60 Beds.
- **C** - Not Applicable.
- **D** - Not Applicable.

<table>
<thead>
<tr>
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<th>DESCRIPTION</th>
</tr>
</thead>
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<td><strong>PLATFORM, MAT, 72&quot;W X 96&quot;L X 18&quot;H OR 48&quot;W X 84&quot;L X 18&quot;H</strong></td>
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<tr>
<td>2</td>
<td>4</td>
<td>VV</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>VV</td>
<td><strong>GYM, UNIVERSAL, APPROX. 84&quot; X 84&quot; X 84&quot;</strong>&lt;br&gt;Note: The medical center may substitute a platform mat for the universal gym. This eliminates the need for a separate latissimus bar and ceiling mounted pulley.</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>VV</td>
<td><strong>TABLE, TREATMENT, HI-LO ELECTRICAL 120 VOLT, 20 AMP, 30&quot;W X 78&quot;L X 32&quot;H</strong></td>
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<td><strong>FRAMES, STANDING, 32&quot;W X 42&quot;L X 60&quot;H</strong></td>
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<td><strong>BARS, PARALLEL, APPROX. 26&quot;W X 180&quot;L X 40&quot;H</strong></td>
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<td><strong>BARS, PARALLEL, APPROX. 26&quot;W X 144&quot;L X 40&quot;H</strong></td>
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<td>1</td>
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<td>VV</td>
<td><strong>PULLEY, OVERHEAD, CEILING MOUNTED</strong></td>
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<td><strong>PULLEY, WALL, TRIPLEX APPROX. 38&quot;W X 12&quot;D X 96&quot;H</strong></td>
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<td><strong>RICKSHAW, APPROX. 42&quot;W X 62&quot;L X 30&quot;H</strong></td>
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<td>1</td>
<td>2</td>
<td>VV</td>
<td><strong>EXERCYCLE, ELECTRIC, 120 VOLT, 20 AMP, APPROX. 24&quot;W X 48&quot;L X 40&quot;H</strong></td>
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<td>1</td>
<td>VV</td>
<td><strong>BAR, LATISSIMUS, APPROX. 32&quot;W X 50&quot;L X 96&quot;H</strong></td>
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<tr>
<td>1</td>
<td>2</td>
<td>VV</td>
<td><strong>CART, WEIGHT, APPROX. 26&quot;W X 36&quot;L X 54&quot;H</strong></td>
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<td><strong>WAGON, DUMBBELS, APPROX. 25&quot;W X 46&quot;L X 41&quot;H</strong></td>
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<tr>
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<td>4</td>
<td>VV</td>
<td><strong>MIRROR, SINGLE, PORTABLE, FULL LENGTH, APPROX. 24&quot;W X 4&quot;D X 72&quot;H</strong></td>
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<tr>
<td><strong>NR</strong></td>
<td>1</td>
<td>VV</td>
<td><strong>MIRROR, POSTURE, 3-WAY, APPROX. 81&quot;W X 12&quot;D X 72&quot;H</strong></td>
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<td><strong>BATH, PARAFFIN, ARM, HAND AND FOOT, APPROX. 12&quot;W X 25&quot;L X 36&quot;H</strong></td>
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<td>VV</td>
<td><strong>STAIRS, EXERCISE, APPROX. 39&quot;W X 54&quot;L X 59&quot;H</strong></td>
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<td>2</td>
<td>6</td>
<td>VV</td>
<td><strong>WHEELCHAIRS, TEACHING, APPROX. 26&quot;W X 57&quot;L X 36&quot;H</strong></td>
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</tbody>
</table>

**TABLE 3.29**<br>**PHYSICAL THERAPY/KINESIOLOGY THERAPY – 30 BEDS (PTES1)**
## 29. Physical Therapy/Kinesiology Therapy - 30 Beds (PTES1)

### Equipment Table:

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<th>DESCRIPTION</th>
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</tr>
<tr>
<td>1 2</td>
<td>VV</td>
<td>CABINET, STORAGE, METAL, 2 DOORS WITH LOCK, 48&quot;W X 18&quot;D X 78&quot;H</td>
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<td>ERGOMETER, UPPER EXTREMITIES, APPROX. 29&quot;W X 52&quot;L X 52&quot;H</td>
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</tr>
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<td>AR AR</td>
<td>VV</td>
<td>SPHYGMOMANOMETER, WALL HUNG</td>
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</tr>
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<td>VV</td>
<td>LIFT, HYDRAULIC, APPROX. 22&quot;WX 36&quot;L X 60&quot;H</td>
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</tr>
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<td>2 2</td>
<td>VV</td>
<td>MACHINE, INFRA-RED, APPROX. 15&quot; W X 30&quot;L X 66&quot;H</td>
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<td>MACHINE MEDCOSONALATOR, APPROX. 16&quot;W X 24&quot;L X 33&quot;H</td>
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<td>HYDROCOLLATOR, COLD-PAK TYPE, 15 ½&quot;W X 17 ½&quot;L (INCLUDING HANDLES) X 31&quot;H</td>
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<tr>
<td>1 1</td>
<td>VV</td>
<td>HYDROCULATOR, HOT, 12-PACK, APPROX. 16&quot;W X 48&quot;L X 31&quot;H</td>
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<tr>
<td>P-414</td>
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<td>LAVATORY, STRAIGHT, BACK, WRIST CONTROL, GOOSENECK SPOUT, 20&quot; X 18&quot; AND 3 1/2&quot; APRON (PG-18-1, MCS 15450)</td>
</tr>
<tr>
<td>1 1</td>
<td>VV</td>
<td>DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
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<td>VV</td>
<td>DISPENSER, BIFOLD PAPER TOWEL, SURFACE MOUNTED</td>
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<td>RECEPTACLE, WASTE, STEP ON TYPE, APPROX. 12&quot; DIAMETER</td>
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<tr>
<td>1 1</td>
<td>VV</td>
<td>CLOCK, BATTERY OPERATED</td>
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<td>P-604</td>
<td>1 1</td>
<td>CC</td>
<td>DISPENSER, DRINKING WATER, WHEELCHAIR, MECHANICALLY COOLED, WALL HUNG, SELF-CONTAINED, APPROXIMATELY 18&quot;W X 18&quot;D X 25&quot;H (SEE ARCHITECTURE DRAWING FOR EXACT LOCATION) - PG-18-1, MCS 15450</td>
</tr>
<tr>
<td>AR AR</td>
<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
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<tr>
<td>AR AR</td>
<td>CC</td>
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<tr>
<td>AR AR</td>
<td>CC</td>
<td>FIRE ALARM STATION, AUDIO &amp; VISUAL DEVICE WALL MOUNTED (PG-18-1, MCS 16721)</td>
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<td>AR AR</td>
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<td>CALL NURSES EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (PG-18-1, MCS 16761)</td>
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</tr>
<tr>
<td>AR AR</td>
<td>CC</td>
<td>CEILING AND LIFT TRACK</td>
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**TABLE 3.29 (CONT’D)**  
**PHYSICAL THERAPY/KINESIOLOGY THERAPY – 30 BEDS (PTES1)**
30. Physical Therapy / Kinesiology Therapy-60 Beds (PTES1)
Floor Plan

3000 NSF (278.7 NSM)
30. Physical Therapy / Kinesiology Therapy-60 Beds (PTES1)
Reflected Ceiling Plan

3000 NSF (278.7 NSM)

Guideplates
30. Physical Therapy/Kinesiology Therapy - 60 Beds (PTES1)

Space Requirement:
60 SCI Beds: 3000 NSF (278.7 NSM)

Architectural:
- Floor Finish: Vinyl Composition Tile
- Base: Vinyl
- Wall Finish: Gypsum Wallboard/Paint
- Ceiling: Acoustical Tile
- Ceiling Height: 9'-6" (2895 mm)
- Noise (STC Rating): 30
- Slab Depression: None
- Special Construction: Wall-mounted pulleys require a reinforced wall with hardwood veneer plywood surface, see Master specifications #06200.
- Hardware: 82
- Doors: 2@3'-0" (914 mm) x 7'-0" (2133 mm) wood or metal, upper half=laminated safety glass.
- Windows: Desirable, see PG-18-3, Topic 1, Codes and Standards.

HVAC:
- Temperature/Humidity:
  - Summer: 72˚F (22˚C) @60%RH
  - Winter: 82˚F (28˚C) @20%RH
- Min. Air Changes/Hour: 6 ACH
- Pressure: Neutral (0)
- Max Noise Criteria: 40

Electrical:
- Lighting Levels:
  - Gen. Illum: 30fc
- Emergency Power:
  - One Ceiling Light
  - Nurse Call

Equipment Table:
See Datasheet #29 for equipment (Column B).
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31. Physical Therapy Treatment Clinic (PTES1)

Floor Plan

- Tilt Tables (VV)
- Standing Frames (VV)
- Sphygmomanometer (VV)
- Dumbell-Wagon (VV)
- Platform Mats (VV)
- Clock (VV)
- Floor-Mtd Receptacles @ Or Near Equipment Where Needed
- Universal Gym (VV)
- Storage Cabinet
- Platform Mat (VV)
- Weight Cart (VV)
- Treatment Table (VV)
- Infra-Red Machine (VV)
- Staff Access
- Wall-Mounted Pulley (VV)
- Structurally Reinforced Wall
- 3 Way Mirror (VV)
- Parallel Bars (VV)
- Portable Mirror (VV)
- Hydrotherapy Access
- Cybex I Diagnostic Unit (VV)
- Teaching Wheelchairs (VV)
- Observation Window (VV)
- Hydraulic Lift (VV)
- P 414 Lavatory W/Dispensers
- Office Access
- Automatic Doors
- P-604 Drinking Fountain
- Waste Receptacle
- Hot Packs (VV)
- Cold Packs (VV)
- Stimulator (VV)
- Treatment Table (VV)
- Diathermy Machine (VV)
- Medcosonator (VV)

1850 NSF (171.9 NSM) Minimum

8' 6' 4' 2' 0' 16' 8'

1/8" = 1'-0"
31. Physical Therapy Treatment Clinic (PTES1)
Reflected Ceiling Plan

RETURN REGESTER

CEILING MOUNTED LIFT TRACK

CEILING MOUNTED LIFT TRACK

CEILING MOUNTED FLUORESCENT LIGHT FIXTURES (TYP)

SPEAKER (TYP)

NURSE CALL LIGHT

SUPPLY DIFFUSER (TYP)

CURTAIN TRACKS

1850 NSF (171.9 NSM) Minimum

1/8" = 1'-0"
31. Physical Therapy Treatment Clinic (PTES1)

Space Requirement:
1850 NSF (171.9 NSM) – Min.

Architectural:
- Floor Finish: Vinyl Composition Tile
- Base: Vinyl
- Wall Finish: Gypsum Wallboard/Paint
- Ceiling: Acoustical Tile
- Ceiling Height: 9’-6” (2895 mm)
- Noise (STC Rating): 30
- Slab Depression: None
- Special Construction: Wall-mounted pulleys require a reinforced wall with hardwood veneer plywood surface, see Master specifications #06200.

Hardware:
- 82

Doors:
- 2@3’-0” (914 mm) x 7’-0” (2133 mm) wood or metal, upper half=laminated safety glass.

Windows:
- Desirable, see PG-18-3, Topic 1, Codes and Standards.

HVAC:
- Temperature/Humidity:
  - Summer: 72˚F (22˚C) @60%RH
  - Winter: 82˚F (28˚C) @20%RH
- Min. Air Changes/Hour: 6 ACH
- Pressure: Neutral (0)
- Max Noise Criteria: 40

Electrical:
- Lighting Levels:
  - Gen. Illum: 30fc
- Emergency Power:
  - One Ceiling Light
  - Nurse Call
## 31. Physical Therapy Treatment Clinic (PTES1)

### Equipment Table:

A - Not Applicable.
B - Not Applicable.
C - Separate Physical Therapy Clinics for Spinal Cord Injury/Disorders Centers of 61-100 Beds.
D - Separate Physical Therapy Clinics for Spinal Cord Injury/Disorders Centers of over 100 Beds.

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
<td>5</td>
<td>PLATFORM, MAT, 72’W X 96”L X 18’H OR 48’W X 84”L X 18’H</td>
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<tr>
<td>B</td>
<td>1</td>
<td>1</td>
<td>GYM, UNIVERSAL, APPROX, 84” X 84” X 84”</td>
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<tr>
<td></td>
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<td>NOTE: THE MEDICAL CENTER MAY SUBSTITUTE A PLATFORM MAT FOR</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>THE UNIVERSAL GYM. THIS ELIMINATES THE NEED FOR A SEPARATE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LATISSIMUS BAR AND CEILING MOUNTED PULLEY.</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>3</td>
<td>TABLE, TREATMENT, HI-LO ELECTRICAL 120 VOLT, 20 AMP, 30”W X 78”L X 32”H</td>
</tr>
<tr>
<td>D</td>
<td>2</td>
<td>2</td>
<td>TABLE, TILT, ELECTRICAL, 120 VOLT, 20 AMP, 28”W X 76”L X 32”H</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>3</td>
<td>PULLEY, WALL, TRIPLEX, APPROX. 38”W X 12”D X 96”H</td>
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<td>3</td>
<td>EXERCYCLE, ELECTRIC, 120 VOLT, 20 AMP, APPROX. 24”W X 48”L X 40”H (OPTIONAL)</td>
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<td>3</td>
<td>CART, WEIGHT, APPROX. 26W X 36”L X 54”H</td>
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<tr>
<td></td>
<td>2</td>
<td>3</td>
<td>WAGON, DUMBELLS, APPROX. 25”W X 46”L X 41”H</td>
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<tr>
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<td>2</td>
<td>3</td>
<td>MIRROR, SINGLE, PORTABLE, FULL LENGTH, APPROX. 24”W X 4”D X 72”H</td>
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<tr>
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<td>2</td>
<td>3</td>
<td>MIRROR, POSTURE, 3-WAY, APPROX. 81”W X 12”D X 72”H</td>
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<td>1</td>
<td>BATH, PARAFFIN, ARM, HAND AND FOOT, APPROX. 2”W X 25”L X 36”H</td>
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<td>1</td>
<td>1</td>
<td>STAIRS, EXERCISE, APPROX. 39”W X 54”L X 59”H (OPTIONAL)</td>
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<td>WHEELCHAIRS, TEACHING, APPROX. 26”W X 57”L X 36”H</td>
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<td>3</td>
<td>CABINET, STORAGE, METAL, 2 DOORS WITH LOCK, 48”W X 18”D X 78”H</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>CYBEX II MACHINE, APPROX. 120”W X 132”L X 40”H</td>
</tr>
<tr>
<td></td>
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<td>NOTE: THE MEDICAL CENTER MAY SUBSTITUTE THE ABOVE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EQUIPMENT FOR SOME OTHER PIECE SUCH AS A PLATFORM MAT</td>
</tr>
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</table>

### TABLE 3.31

PHYSICAL THERAPY TREATMENT CLINIC (PTES1)
# 31. Physical Therapy Treatment Clinic (PTES1)

## Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>VV</td>
<td>2</td>
<td>A</td>
<td>LIFT, HYDRAULIC, APPROX. 22&quot;W X 36&quot;L X 60&quot;H</td>
</tr>
<tr>
<td>VV</td>
<td>3</td>
<td>B</td>
<td>MACHINE, INFRA-RED, APPROX. 15&quot;W X 30&quot;L X 66&quot;H</td>
</tr>
<tr>
<td>VV</td>
<td>3</td>
<td>C</td>
<td>MACHINE, MEDICOSONATOR, APPROX. 16&quot;W X 24&quot;L X 33&quot;H</td>
</tr>
<tr>
<td>VV</td>
<td>1</td>
<td>D</td>
<td>HYDROCOLLATOR, COLD-PAK TYPE, 15 1/2&quot;W X 17 1/2&quot;L (INCLUDING HANDLES) X 31&quot;H</td>
</tr>
<tr>
<td>VV</td>
<td>2</td>
<td>A</td>
<td>HYDROCOLLATOR, HOT, 12 PACK, APPROX. 16&quot;W X 48&quot;L X 31&quot;H</td>
</tr>
<tr>
<td>VV</td>
<td>4</td>
<td>B</td>
<td>CHAIR, STRAIGHT, WITH OR WITHOUT ARMS (OPTIONAL)</td>
</tr>
<tr>
<td>VV</td>
<td>3</td>
<td>C</td>
<td>STIMULATOR, ELECTRIC, 120 VOLT, 20 AMP, APPROX. 14&quot;W X 24&quot;L X 41&quot;H</td>
</tr>
<tr>
<td>VV</td>
<td>2</td>
<td>D</td>
<td>DIATHERMY, MICROWAVE, APPROX. 16&quot; X 20&quot;L X 33&quot;H</td>
</tr>
<tr>
<td>VV</td>
<td>1</td>
<td>A</td>
<td>CLOCK, BATTERY OPERATED</td>
</tr>
<tr>
<td>CC</td>
<td>1</td>
<td>B</td>
<td>LAVATORY, STRAIGHT, BACK, WRIST CONTROL, GOOSENECK SPOUT, 20&quot; X 18&quot; AND 3 1/2&quot; APRON (PG-18-1, MCS 15450)</td>
</tr>
<tr>
<td>VV</td>
<td>1</td>
<td>C</td>
<td>DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
</tr>
<tr>
<td>VV</td>
<td>1</td>
<td>D</td>
<td>DISPENSER, BIFOLD PAPER TOWEL, SURFACE MOUNTED</td>
</tr>
<tr>
<td>VV</td>
<td>1</td>
<td>A</td>
<td>RECEPTACLE, WASTE, STEP ON TYPE, APPROX. 12&quot; DIAMETER</td>
</tr>
<tr>
<td>CC</td>
<td>1</td>
<td>B</td>
<td>DISPENSER, DRINKING WATER, WHEELCHAIR, MECHANICALLY COOLED, WALL HUNG, SELF-CONTAINED, APPROXIMATELY 18&quot;W X 18&quot;D X 25&quot;H (SEE ARCHITECTURE DRAWING FOR EXACT LOCATION) (PG-18-1, MCS 15450)</td>
</tr>
<tr>
<td>AR</td>
<td>1</td>
<td>C</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
</tr>
<tr>
<td>AR</td>
<td>1</td>
<td>C</td>
<td>LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
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<tr>
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<td>FIRE ALARM STATION, AUDIO &amp; VISUAL DEVICE WALL MOUNTED (PG-18-1, MCS 16721)</td>
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<tr>
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<td>C</td>
<td>CALL NURSES EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (PG-18-1, MCS 16761)</td>
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<td>C</td>
<td>CEILING MOUNTED LIFT TRACK</td>
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<tr>
<td>AR</td>
<td>1</td>
<td>C</td>
<td>CURTAIN TRACK</td>
</tr>
</tbody>
</table>

*TABLE 3.31 (CONT’D) PHYSICAL THERAPY TREATMENT CLINIC (PTES1)*
32. Kinesiotherapy Treatment Clinic (PTES1)

Floor Plan

Observation Window from Therapist Office

Tilt Table (VV)

Waste Receptacle

Hydraulic Lift (VV)

Sphygmo-Manometer (VV)

Treatment Table (VV)

Ergometer (VV)

Treatment Table (VV)

Portable Mirror (VV)

Parallel Bars (VV)

3-Way Mirror (VV)

Exercise Stair (VV)

Automatic Doors

Office Access

P-604 Drinking Fountain

P 414 Lavatory w/ Paper & Soap Dispenser

Rickshaw (VV)

Structurally Reinforced Wall

Wall-Mounted Pulley System (VV)

Standing Frames (VV)

Floor-Mounted Receptacles @ or Near Equipment Where Needed

Exercycles (VV)

Access to PT if Not Contiguous

Platform Mats (VV)

Weight Cart (VV)

Dumbbell Cart (VV)

60-100 SCI Beds: 1080 NSF (100.3 NSM)

Over 100 SCI Beds: 1250 NSF (116.9 NSM)

1/8" = 1'-0"
32. Kinesiotherapy Treatment Clinic (PTES1)
Reflected Ceiling Plan

60-100 SCI Beds: 1080 NSF (100.3 NSM)
Over 100 SCI Beds: 1250 NSF (116.9 NSM)
32. Kinesiotherapy Treatment Clinic (PTES1)

Space Requirement:
60-100 SCI Beds: 1080 NSF (100.3 NSM)
Over 100 SCI Beds: 1250 NSF (116.9 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Gypsum Wallboard/Paint
Ceiling: Acoustical Tile
Ceiling Height: 9'-6" (2895 mm)
Noise (STC Rating): 30
Slab Depression: None
Special Construction: Wall-mounted pulleys require a reinforced wall with hardwood veneer plywood surface, see Master specifications #06200.
Hardware: 82
Doors: 2@3'-0" (914 mm) x 7'-0" (2133 mm) wood or metal, upper half-laminated safety glass.
Windows: Desirable, see PG-18-3, Topic 1, Codes and Standards.

HVAC:
Temperature/Humidity:
   Summer: 72˚F (22˚C) @60%RH
   Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Neutral (0)
Max Noise Criteria: 40

Electrical:
Lighting Levels:
   Gen. Illum: 30fc
Emergency Power:
   One Ceiling Light
   Nurse Call
# 32. Kinesiotherapy Treatment Clinic (PTES1)

## Equipment Table:

A - Not Applicable.
B - Not Applicable
C - Separate Corrective Therapy Clinics for Spinal Cord Injury/Disorders Centers of 61-100 Beds.
D - Separate Corrective Therapy Clinics for Spinal Cord Injury/Disorders Centers of over 100 Beds.

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
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<td>A</td>
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<td>VV PLATFORM, MAT, 72&quot;W X 96&quot;L X 18&quot;H OR 48&quot;W X 84&quot;L X 18&quot;H</td>
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<td>2</td>
<td>3</td>
<td>VV TABLE, TREATMENT, HI-LO ELECTRICAL, 120 VOLT, 20 AMP, 30&quot;W X 78&quot;L X 32&quot;H</td>
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<tr>
<td>C</td>
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<td>3</td>
<td>VV FRAMES, SANDING, 32&quot;W X 42&quot;L X 60&quot;H</td>
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<td>P-414</td>
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<td>CC LAVATORY, STRAIGHT, BACK, WRIST CONTROL, GOOSENECK SPOUT, 20&quot; X 18&quot; AND 3 1/2&quot; APRON (PG-18-1, MCS 15450)</td>
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<td>VV DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
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<td>VV DISPENSER, BIFOLD PAPER TOWEL, SURFACE MOUNTED</td>
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<td>VV BARS, PARALLEL, APPROX. 26&quot;W X 180&quot;L X 40&quot;H</td>
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<td>VV BARS, PAPARELLE, APPROX. 26&quot; X 144&quot;L X 40&quot;H</td>
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<td>VV PULLEY, WALL, TRIPLEX, APPROX. 36&quot;W X 12&quot;D X 96&quot;H</td>
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<td>VV PULLEY, OVERHEAD, CEILING MOUNTED</td>
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<td>VV EXERCISER, LATISSIMUS DORSI, WALL MOUNTED (OPTIONAL)</td>
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<td>VV RICKSHAW, APPROX. 42&quot;W X 62&quot;L X 30&quot;H</td>
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<td>VV EXERCYCLE, ELECTRIC, 120 VOLT, 20 AMP, APPROX. 24&quot;W X 48&quot;L X 40&quot;H</td>
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<td>VV BAR, LATISSIMUS, APPROX. 32&quot;W X 50&quot;L X 96&quot;H (OPTIONAL)</td>
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<td>3</td>
<td>VV MIRROR, SINGLE, PORTABLE, FULL LENGTH, APPROX. 24&quot;W X 4&quot;D X 72&quot;H</td>
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<td>1</td>
<td>VV STAIRS, EXERCISE, APPROX. 39&quot;W X 54&quot;L X 59&quot;H</td>
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<td>VV GYM, UNIVERSAL, APPROX. 84&quot; W 84&quot; X 84&quot;</td>
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<tr>
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<td>NOTE: THE MEDICAL CENTER MAY SUBSTITUTE A PLATFORM MAT FOR THE UNIVERSAL GYM. THIS ELIMINATES THE NEED FOR A SEPARATE LATISSIMUS BAR AND CEILING MOUNTED PULLEY.</td>
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<td>VV CABINET, STORAGE, METAL, 2 DOORS WITH LOCK, 48&quot;W X 18&quot;D X 78&quot;H (OPTIONAL)</td>
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<td>1</td>
<td>VV CYBEX II MACHINE, APPROX. 120&quot;W X 132&quot;L X 40&quot;H (OPTIONAL)</td>
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<td>VV ERGOMETER, UPPER EXTREMITIES, APPROX. 29&quot;W X 52&quot;L X 52&quot;H</td>
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<td>2</td>
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<td>VV CHAIR, STRAIGHT, WITH OR WITHOUT ARMS (OPTIONAL)</td>
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<td>VV CLOCK, BATTERY OPERATED</td>
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<td>CC DISPENSER, DRINKING WATER, WHEELCHAIR, MECHANICALLY COOLED, WALL HUNG, SELF-CONTAINED, APPROXIMATELY 18&quot;W X 18&quot;D X 25&quot;H (SEE ARCHITECTURE DRAWING FOR EXACT LOCATION) (PG-18-1, MCS 15450)</td>
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<td>AR</td>
<td>CC</td>
<td>CURTAIN TRACK</td>
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<td>AR</td>
<td>AR</td>
<td>CC</td>
<td>SPYGMOMANOMETER</td>
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</table>

## TABLE 3.32

**KINESIOOTHERAPY TREATMENT CLINIC (PTES1)**
33. Occupational Therapy (OTEV1)

Floor Plan

- TOOL CABINET (VV)
- SUPPLY CABINET (VV)
- FLOOR-MOUNTED RECEPTACLES @ OR NEAR EQUIPMENT WHERE NEEDED
- ADJUSTABLE WORK TABLES (VV)
- SKATEBOARD TABLE (VV)
- DELTOID AID SYSTEMS (VV)
- ADL CART (VV)

- BASE CABINET W/ ACCESSIBLE SINK & WALL-MOUNTED CABINET
- FLAMMABLE MATERIALS CABINET (VV)
- WOODWORKING BENCH (VV)
- OBSERVATION WINDOW
- P-604 DRINKING FOUNTAIN
- OFFICE ACCESS
- STORAGE ACCESS
- P 414 LAVATORY W/ PAPER TOWEL & SOAP DISPENSER (VC)
- WASTE RECEPTACLE
- SEWING MACHINE (VV)
- TABLE (VV)
- HYDRAULIC LIFT (VV)
- CLOCK (VV)
- SPLINTING CART (VV)

800 NSF (74.3 NSM)

1/8" = 1'-0"
33. Occupational Therapy (OTEV1)
Reflected Ceiling Plan

CEILING MOUNTED FLUORESCENT LIGHTS (TYP)

RETURN REGISTER

SUPPLY DIFFUSER (TYP)

CEILING MOUNT FLUORESCENT LIGHTS FIXTURES (TYP)

NURSE CALL LIGHT

800 NSF (74.3 NSM)

1/8" = 1'-0"
33. Occupational Therapy (OTEV1)

Space Requirement:  
800 NSF (74.3 NSM) - Min.

Architectural:  
- Floor Finish: Vinyl Composition Tile  
- Base: Vinyl  
- Wall Finish: Gypsum Wallboard/Paint  
- Ceiling: Acoustical Tile  
- Ceiling Height: 9'-0" (2743 mm)  
- Noise (STC Rating): 30  
- Slab Depression: None  
- Special Construction: -  
- Hardware: 82  
- Doors: 2@ 3'-0" (914 mm) x 7'-0" (2133 mm) wood or metal, upper half-laminated safety glass.  
- Windows: Desirable, see PG-18-3, Topic 1, Codes and Standards.

HVAC:  
- Temperature/Humidity:  
  - Summer: 72˚F (22˚C) @60%RH  
  - Winter: 82˚F (28˚C) @20%RH  
- Min. Air Changes/Hour: 6 ACH  
- Pressure: Neutral (0)  
- Noise Criteria: 40

Electrical:  
- Lighting Levels: 30fc  
- Emergency Power:  
  - One Ceiling Light  
  - Nurse Call
33. Occupational Therapy (OTEV1)

Equipment Table:

A - Occupational Clinics located in SCI Centers of 0-30 Beds.
B - Occupational Clinics located in SCI Centers of 31-60 Beds.
C - Occupational Clinics located in SCI Centers of 61-100 Beds.
D - Occupational Clinics located in SCI Centers of over 100 Beds.

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<th>QUANTITY</th>
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<td>TABLE, PC, APPROX. 18&quot;W X 45&quot;L X 36&quot;H</td>
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<td>TABLE, SKATE BOARD, APPROX. 48&quot;W X 60&quot;L X 36&quot;H</td>
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<td>TABLE, POWDER BOARD, APPROX. 42&quot;W X 30&quot;L X 7&quot;H</td>
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<td>TABLE, OVER-BED, ADJUSTABLE HEIGHT, ON CASTERS, APPROX. 20&quot;W X 36&quot;L</td>
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<td>BENCH, WOODWORKING, APPROX. 28&quot;W X 60&quot;L X 38&quot;H</td>
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<td>MACHINE SEWING, APPROX. 22&quot;W X 48&quot;L X 31&quot;H</td>
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<td>DELTOID AID SYSTEM, APPROX. 28&quot;W X 37&quot;L X 78&quot;H</td>
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<td>CABINET, FLAMMABLE LIQUID STORAGE (PAINT, ETC.). FLAMMABLE LIQUIDS TO BE AS DEFINED IN CHAPTER 1 OF FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE, NFPA NO. 30. CABINET SHALL CONFORM TO REQUIREMENTS OF PARAGRAPHS 4220 AND 4221 OF CHAPTER IV. OF ABOVE CODE. CABINET OF 45 GALLON CAPACITY, 43&quot;X 18&quot;D X 65&quot;H</td>
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<td>T-13</td>
<td>1 2 2 3</td>
<td>CC</td>
<td>CABINET, STORAGE, WITH SLOPING TOP, 2 HINGED PANEL DOORS, LOCK, AND 5 ADJUSTABLE SHELVES, 48&quot;W X 18&quot;D X 84&quot;H (PG-18-1, MCS 12301)</td>
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<tr>
<td>T-8A</td>
<td>1 2 2 3</td>
<td>CC</td>
<td>CABINET, TOOL STORAGE, 2 DOOR, 3 SHADOW BOARDS, FOUR DRAWERS, ALL WITH LOCKS, 48&quot;W X 16&quot;D X 80&quot;H (PG-18-1, MCS 12301)</td>
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<td>FRAMES, STANDING, 32&quot;W X 42&quot;L X 60&quot;H</td>
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<td>6 12 20 32</td>
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<td>CHAIR, STRAIGHT, WITH OR WITHOUT ARMS (OPTIONAL)</td>
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<td>UNIT, COUNTER-BALANCE, APPROX. 42&quot;W X 36&quot;L X 60&quot;H (OPTIONAL)</td>
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<td>LIFT, HYDRAULIC, APPROX. 22&quot;W X 38&quot;L X 60&quot;H</td>
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**TABLE 3.33**

**OCCUPATIONAL THERAPY (OTEV1)**
### 33. Occupational Therapy (OTEV1)

#### Equipment Table:

<table>
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<th>SYMBOL</th>
<th>QUANTITY</th>
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<tr>
<td>T-1B</td>
<td>1 1 1 1 1 CC</td>
<td>CABINET, ASSEMBLY, WITH 2 UNDERCOUNTER UNITS TO HAVE 1 DRAWER, 1 HINGED DOOR AND 1 ADJUSTABLE SHELF, SINK CABINET TO HAVE 2 HINGED DOORS, TOTAL SIZE 84&quot;W X 22&quot;D X 36&quot;H. WALL CABINETS TO BE WITH SLOPING TOP, 2 GLAZED SLIDING DOORS AND 2 ADJUSTABLE SHELVES, COUNTER TOP OF CORROSION RESISTING STEEL WITH INTEGRAL SPLASHBACKS AND SINK, 18&quot; X 20&quot; X 7 ½&quot; DEEP, WITH PLASTER TRAP, REMOVABLE STRAINER AND SWING SPOUT FAUCET (PG-18-1, MCS 12301)</td>
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<td>1 2 2 3 VV</td>
<td>MIRROR, SINGLE, WALL MOUNTED, FULL LENGTH, APPROX. 24&quot;W X 4&quot;D X 72&quot;H (OPTIONAL)</td>
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<td>SANDER, BELT, FLOOR, TYPE, APPROX. 19&quot;W X 26&quot;L X 57&quot;H</td>
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<td>LAVATORY, STRAIGHT, BACK, WRIST CONTROL, GOOSENECK SPOUT, 20&quot; X 18&quot; AND 3 ½ “APRON (PG-18-1, MCS 15450)</td>
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<td>DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
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<td>DISPENSER, BIFOLD PAPER TOWEL, SURFACE MOUNTED</td>
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<td>RECEPTACLE, WASTE, STEP ON TYPE, APPROX. 12” DIAMETER</td>
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<td>P-604</td>
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<td>DISPENSER, DRINKING WATER, WHEELCHAIR, MECHANICALLY COOLED, WALL HUNG, SELF-CONTAINED, APPROXIMATELY 18&quot;W X 18&quot;D X 25&quot;H (SEE ARCHITECTURE DRAWING FOR EXACT LOCATION) (PG-18-1, MCS 15450)</td>
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<td></td>
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<td>CLOCK, BATTERY OPERATED</td>
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<td>OBSERVATION WINDOW</td>
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**TABLE 3.33 (CONT’D)**

**OCCUPATIONAL THERAPY (OTEV1)**
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34. Urologist Office (OFD01)
Floor Plan

130 NSF (12.1 NSM)
34. Urologist Office (OFD01)  
Reflected Ceiling Plan

SUPPLY DIFFUSER

CEILING MOUNTED FLUORESCENT LIGHT (TYP)

RETURN REGISTER

130 NSF (12.1 NSM)
34. **Urologist Office (OFD01)**

**Space Requirement:**
130 NSF (12.1 NSM)

**Architectural:**
- Floor Finish: Carpet
- Base: Vinyl
- Wall Finish: Gypsum Wallboard/Paint
- Ceiling: Acoustical Tile
- Ceiling Height: 9'-0" (2743 mm)
- Noise (STC Rating): 40
- Slab Depression: None
- Special Construction: -
- Hardware: 23
- Doors: 3'-0" (914 mm) x 7'-0" (2133 mm) wood or metal
- Windows: Desirable, see PG-18-3, Topic 1, Codes and Standards.

**HVAC:**
- Temperature/Humidity:
  - Summer: 72°F (22°C) @60%RH
  - Winter: 82°F (28°C) @20%RH
- Min. Air Changes/Hour: 4 ACH
- Pressure: Neutral (0)
- Max Noise Criteria: 40

**Electrical:**
- Lighting Levels:
  - Gen. Illum: 70fc
- Emergency Power:
# 34. Urologist Office (OFD01)

## Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
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<td>B</td>
<td>C</td>
<td>D</td>
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<tr>
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<td>1</td>
<td>VV</td>
<td>DESK, DOUBLE PEDESTAL APPROX 60&quot; W X 30&quot; D X 29 ½&quot; H</td>
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<td>VV</td>
<td>CHAIR, ROTARY</td>
</tr>
<tr>
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<td>1</td>
<td>VV</td>
<td>CHAIR, STRAIGHT</td>
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<td>3</td>
<td>VV</td>
<td>BOOKCASE, SECTIONAL (EACH SECTION 33&quot; W X 13&quot; D X 15&quot; H) WITH 10&quot; H BASE</td>
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<td>COSTUMER APPROX 12&quot; X 12&quot;</td>
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<tr>
<td>4</td>
<td>4</td>
<td>VV</td>
<td>ILLUMINATOR X-RAY FILM WALL MOUNTED, 120 VOLTS, 150 WATTS, INDIVIDUAL SWITCH FOR TWO 14&quot; X 17&quot; RADIOGRAPHS, 31&quot; W X 20&quot; H</td>
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<tr>
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<td>RECEPTACLE, ELECTRICAL, DUPLEX, ON WALL, 120 VOLT, 20 AMP, 48&quot; ABOVE FINISHED FLOOR ABOVE EQUIPMENT (PG-18-1, MCS 16140)</td>
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<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
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<td>CLOCK, BATTERY OPERATED</td>
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<tr>
<td>P-418</td>
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<td>LAVATORY, STRAIGHT, BACK, ELECTRONIC, TEMPERED FAUCET, 20&quot; X 18&quot; AND 3 ½ &quot; APRON (PG-18-1, MCS 15450)</td>
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<td>DISPENSER PAPER TOWEL AND DISPOSAL COMBINATION UNITIS (PG-18-1 MCS 10800)</td>
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<td>CREDENZA</td>
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</table>

## TABLE 3.34

UROLOGIST OFFICE (OFD01)
3.4 Outdoor Rehabilitation Guideplates

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3. Family Encounter Areas ............................................................................. 3 - 169
4. Passive Recreation ..................................................................................... 3 - 173
5. Thermo Regulation ..................................................................................... 3 - 175
6. Equilibrium .................................................................................................. 3 - 177
7. Wheeling Surfaces ..................................................................................... 3 - 178
Page Left Blank Intentionally
1. Users

**Users:**
Patients are the primary user at the nursing unit. Patients are classified as:

1. Intensive Rehab - recently injured and hospitalized from time of injury to one year with intensive rehabilitation.
2. Sustaining - have older injuries and hospitalized for medical reasons or additional rehabilitation.
3. Long-Term - unable to leave hospital in spite of rehabilitation efforts, usually an elderly population.

**Functions:**

I. REHABILITATION

A. Education - Physical and psychological adjustment to wheelchair confinement.
   1. Wheeling on a variety of surfaces.
   2. Maneuvering over curbs, up steps, on moving surfaces, on ramps and in other potential circumstances.

B. Therapy
   1. Exercise stations to develop physical capabilities needed in wheelchair use.
   2. Sports facilities to develop physical activity as well aiding psychological adjustment.
   3. Outdoor environment to aid in the initial adjustment to new physical circumstances and as a relief from indoor confinement. (Important to patients initially confined to gurneys.)

II. RECREATION

A. Active – Primarily for patient use; participation by staff and visitors possible.
   1. Court Games
   2. Other physical facilities adding variety to hospitalization routine.
Functions (cont’d.):

B. Passive – Patients, staff and visitors.

1. Visitor Areas – Due to the nature of hospitalization and potential length of stay, a separate, private area for visiting would contribute to the overall rehabilitation process.
   
a. A private, pleasant area providing picnic tables with a variety of seating combinations, barbecue facilities and nearby sources of drinking water.

b. A child’s play area to occupy visiting children’s restless moments and excess energies.

c. Games facilities

2. Random seating areas – located at various activity centers for observing activity, visiting or outdoor relaxation.

3. Extrinsic site amenities, such as landscaping, fountains and pools, contributing to the pleasure of the space.

4. Note: Drawings shown in this section are not to scale.
2. Sports Facilities

Function:
The use of the following sport facilities strengthens larger upper muscles:

1. Shuffleboard
2. Horseshoes
3. Basketball

Shuffleboard:

Horseshoes:
Sports Facilities (cont’d.):  

Basketball:

Guideplates 3 - 168
3. Family Encounter Areas

**Function:**
The uses of the following quiet, passive areas encourage family encounter activities:

1. Picnic/Grill Areas
2. Seating Area/Benches for Patients
3. Childs Play Area (no guide plate)

**Picnic Table:**
Family Encounter Areas (cont’d.):

Outdoor Barbeque/Grill:
Family Encounter Areas (cont’d.):

Seating Area:
Family Encounter Areas

Seating/Benches for Patients:

Note:

In most cases the semi-ambulant, rather than the wheelchair user, will use seats and benches. Most chair users have difficulty transferring from the chair to a bench. A bench with a back rest and arm supports will give added body support to individuals affected by muscle weakness or spasms. Able bodied individuals also seem to prefer a bench with a back support. Because of the difficulty the leg amputee or brace wearer has in rising from a seat to a standing position, extremely low benches should be avoided. Arm supports will help such an individual in rising as well as in being seated, although an obstacle when transferring from a wheelchair.
4. Passive Recreation

Function:
The use of the following facilities enhance manual and small muscles dexterity:

1. Seating Planters
2. Game Tables
3. Golf Putt (no Guideplate provided)
4. Greenhouse (no Guideplate provided)
5. Ham/CB Radio Shack (no Guideplate provided)

Seating Planters:

Note:
Retaining walls and raised planter boxes can also double as seating areas or support devices, provided they are designed at the right height and width. Free standing walls and fences, usually 5 (1524 mm) or 6 (1828 mm) feet high can also be grasped for support if needed. Walls which are constructed of concrete or masonry can serve as directional guides for the blind by sound reverberation.
Passive Recreation (cont’d.):

Game Table:
5. Thermo Regulation

Function:
SCI patients, especially quadriplegics, who have difficulty maintaining body temperature control, require the following elements to cool their bodies:

1. Drinking Fountain
2. Trellis/Shade Area

Drinking Fountain:
Thermo Regulation (cont’d.):

Trellis/Shade Area:

*All wood is pressure treated lumber.
6. Equilibrium

Function:
This activity promotes balance and a sense of equilibrium. A patient rolls onto the bridge balancing as long as possible in the center.

Rocking Bridge:

*All wood is pressure treated lumber.*
7. Wheeling Surfaces

Function:
The following elements will educate the patient for wheeling on a variety of surfaces and in other difficult areas. The arrangement of the wheeling surfaces can vary depending on the objectives each SCI Clinic and the amount of outdoor space available.

1. The minimum dimensions of 4 feet by 10 feet are required for the following surfaces:
   a. Concrete/Exposed Aggregate
   b. Asphalt/Sloped Asphalt (Standing Water Option)
   c. Brick Pavers
   d. Concrete Pavers
   e. Flagstone
   f. Wood Planks
   g. Sand
   h. Gravel
   i. Barkmulch
   j. Natural Turf
   k. Artificial Turf/Synthetic Turf
2. Curb/Curb Ramp/Sidewalk
3. Steps
4. Ramp (1:12 Slope)
5. Exercise Stations

Concrete/Exposed Aggregate

![Concrete/Exposed Aggregate Diagram]

Broom Finish
Use stiff bristle for coarse texture. Use soft bristle on steel troweled surface for fine texture.

Exposed Aggregate
Seed aggregate uniformly onto surface. After setup, brush lightly and clean with spray. If using aggregate mix, towel and expose by washing fines or use a retarder.
Wheeling Surfaces (cont’d.):

Asphalt/Slope Asphalt (Standing Water Option)

Brick Pavers

Concrete Pavers
Wheeling Surfaces (cont’d.):

Flagstone

![Flagstone Diagram]

Wood Planks

![Wood Planks Diagram]
Wheeling Surfaces (cont’d.):

**Sand**

![Diagram of Sand surface]

**Gravel**

![Diagram of Gravel surface]

**Barkmulch**

![Diagram of Barkmulch surface]

**Natural Turf**

![Diagram of Natural Turf surface]

**Artificial/Synthetic Turf**

![Diagram of Artificial/Synthetic Turf surface]
Wheeling Surfaces (cont’d.):

Curb/Curb Ramp/Walk:

Plan

Section

Guideplates
Wheeling Surfaces (cont’d.):

Concrete Steps:

Plan

Section
Wheeling Surfaces (cont’d.):

Ramp (1:12 Slope):

Elevation

Cross-Section
### 3.5 Site Design Guideplates

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3. Passenger Loading Zone.............................. 3 - 189
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9. Trash Receptacles.................................. 3 - 195
10. Telephones........................................ 3 - 196
11. Signs............................................... 3 - 197
12. Lighting.......................................... 3 - 198
1. **Grading**

**Function:**

To provide access to primary entrances usually considered as major points of pedestrian flow to all buildings through the proper grading or use of approach ramps.

**Requirements:**

Such accessible entrances shall include:

1. Primary public entrances connecting to public transportation stops.
2. Primary entrances connecting to parking areas specially designed for the handicapped.
3. Primary entrances connecting to walkways between buildings in a hospital complex.
4. All horizontal exits out of SCI Center.
2. Parking

Function:

To provide a dedicated lot with accessible parking spaces with safe and easy access to buildings.

Requirements:

1. 1.5 spaces for each SCI bed.

2. 5'-0" (1524 mm) wide access aisles on each side of accessible spaces.
   a. Regular spaces are 8'-0" (2438) wide.
   b. Van spaces are 11'-0" (3352 mm) wide by 21'-0" (6400 mm) long.

3. Pavement surface flush with adjoining walk with a maximum surface slope of 1:50 (2%).


6. Minimum clear width of 8'-0" (2438 mm) for adjacent walkways abutting parking stalls to allow for vehicle overhang.

Note: Location of walkways shall preferably eliminate the need to walk or wheel behind parked vehicles.
3. Passenger Loading Zone

Function:

To provide a designated accessible passenger loading zone located away from other traffic patterns.

Requirements:

1. Adjacent to accessible entrance.
2. Curb ramp to sidewalk level.
3. Canopy or roof overhang for protection.
4. Communication system for assistance.
5. Access aisles, measuring at least 5'-0" (1524 mm) wide by 20'-0" (6096 mm) long and parallel and level with the vehicle pull-up space.
4. Curb Ramps

Function:

To provide a smooth transition between a vehicular road surface and a pedestrian walk surface.

Requirements:

1. Slope: The maximum slope of a ramp in a new construction shall be 1:12.

2. Width: The minimum width of a curb ramp shall be 36 inches (915 mm), exclusive of flared sides.

3. Surface: Ground and floor surfaces along curb ramps shall be stable, firm and slip-resistant.
5. Walks

Function:

To provide a continuous and accessible, common surface free of steps or abrupt changes of level, that is maneuverable throughout the hospital complex.

Requirements:

1. Maximum slope of 1:33 (3%).

2. Minimum width of 6'-0" (1828 mm).

3. Maximum cross slopes of 1:50 (2%).

4. Slip-resistant surface.

5. Rest areas every 200'-0" (60960 mm).

Note: A minimum width of 7'-0" (84 in.) (2133 mm) is required for two individuals in wheelchairs to pass each other.
6. Exterior Door Entrances

Function:

To provide a clear and level platform where doors open onto a walk or ramp for easy access to building.

Requirements:

1. Minimum dimensions of platform 6'-0" (1828 mm) x 6'-0" (1828 mm).

2. Platform shall extend a minimum of 1'-6" (457 mm) beyond the latch side of single doors and 6" (152 mm) beyond both sides of double-leaf doorways.

3. Signage at accessible entrances.
7. Ramps

Function:

Any part of an accessible route with a slope greater than 1:20 shall be considered a ramp. The function of a ramp is to provide accessible building entrances across steep topography where a gradual incline is not possible.

Requirements:

1. Slope: The maximum slope of a ramp in a new construction shall be 1:12.

2. Width: The minimum width of a curb ramp shall be 36 inches (915 mm), exclusive of flared sides.

3. Surface: Ground and floor surfaces along curb ramps shall be stable, firm and slip-resistant.

4. Cross slope of ramp surfaces shall be no greater than 1:50.

5. Landings:
   a. Every 40'-0" (12192 mm) when slope is 1:33 (3%) to 1:24 (4%).
   b. Every 35'-0" (10668 mm) when slope is 1:25 (4%) to 1:20 (5%).
   c. Landing length shall be a minimum of 60 in. i.e. 5'-0" (1524 mm) – clear.
   d. If ramps change direction at landings, the minimum landing size shall be 60 in by 60 in. i.e. 5'-0" x 5'-0" (1524 mm x 1524 mm).

6. Handrails installed on both sides and mounted at a height of 2'-9" (838 mm) and extend 1'-0" (304 mm) beyond beginning and end of ramp.

7. 4" (101 mm) high x 8" (203 mm) wide curbs on each side to prevent wheelchairs from scuffing walls or catching on railing posts. Such curbs also enable a person to stop a wheelchair that is out of control quickly by turning one wheel against the curb.
8. Grates

Requirements:

Cast iron and similar gratings in walkways or pedestrian areas should not have openings larger than a ½ inch (12 mm) square. Manhole and access covers must be flush with the pavement or road surface.
9. Trash Receptacles

Requirements:

All trash receptacles in areas accessible to disabled persons should have an opening between 30 inches (762 mm) to 36 inches (914 mm) from the ground. Containers should be operable by one hand and have no sharp edges or corners. Each receptacle should be securely anchored to the ground or attached to a sturdy post. Many times such elements will be used as support by semi-ambulants. All receptacles should be placed in areas that can be reached by wheelchair users, preferably where they are not required to go across soft lawn or rough and irregular surfaces.
10. Telephones

Requirements:

1. All operating mechanisms (dial, headset and coin slot) should be a maximum of 4’-0” (1219 mm) above the floor.

2. A minimum 4’-0” (1219 mm) clear floor space to allow parallel approach by wheelchairs.
11. Signs

Function:

There are two different types of signage. One is the accessibility indicator informing a person if a facility is accessible to the disabled. The second is informative and illustrative. The international symbol of accessibility should be used as an integral part of the facility.

Requirements:

Letters and numbers on signs shall have a width-to-height ratio between 3:5 and 1:1 and a spacing width-to-height ratio between 1:5 and 1:10. Characters and symbols shall contrast with their background – eight light characters on a dark background or dark characters on a light background. Consider when placing signs the height of a person seated in a wheelchair so that they can easily see the signs but not obstruct their view of danger areas or facilities. Also consider the placement of signs along walks so that non-sighted persons will not walk into them.
12. Lighting

Function:

Proper lighting is a necessity if the facilities are to be used after dark. All drop-off and pickup areas, parking spaces used by a disabled person, and important information signs should be adequately lighted with at least 5 foot (1524 mm) candles of unshadowed illumination. Critical areas for lighting are steps, ramps, and hazardous areas. The diagonal projection of light from one outlet should overlap the diagonal projection of the next.

Requirements:

1. Lights should be arranged so that they form a single line directly over the center of a walk, ramp, or stairs to provide a visual path for persons with only light perception.

2. Overhead lighting tends to cast shadows especially by someone in a wheelchair and thus may be a hazard by obscuring the surface below. At hazardous locations, such as changes of grade, lower level supplemental lighting or additional overhead lights should be used. The light itself should not be placed at such a level that it will glare into a person’s eyes. Eye level at wheelchair, can be between 4 feet (1219 mm) and 6 feet (1828 mm). Where walkway illumination is obtained by low fixtures at 3 feet (914 mm) or lower, there must be sufficient peripheral light to indicate what the surroundings are. Peripheral lighting provides for better security of the individual, if he can see into his surroundings, to determine if passage through an area is safe.
4. SCI/D Long Term Care

SPINAL CORD INJURY/DISORDERS CENTER
4.0 **SPINAL CORD INJURY/DISORDERS CENTER LONG TERM CARE**

* The extent of changes from the 2008 manual to the 2011 version are limited to minor HVAC changes (temperature, humidity, etc.) found in the HVAC section of the design plates. The architectural and electrical requirements remain the same.

4.1 **SCI/DC LTC Narrative**

4.1.1 Planning Criteria

The design concepts described for SCI/D Centers in Chapter 1.0 of this Design Guide are relevant for SCI/D Long Term Care units.

1. **Design Concepts**

   The primary reason for differences in design concepts for the SCI/D Long Term Care unit is that the Veterans being treated in this environment have needs that encompass both Long Term Care and Spinal Cord Injury/Disorders care. The SCI/D Long Term Care Center’s occupants should be described as residents rather than patients. The environment should reflect the idea and concept that the SCI/D long term care unit is residential in nature. However, like the patients with acute spinal cord injuries and/or disorders, those being cared for in the SCI/D Long Term Care environment have special needs related to injuries and/or disorders of the spinal cord. As a result, the SCI/D Long Term Care unit must be able to care for these residents with special needs, while doing so in a residential setting.

2. **Location**

   In all new construction, the SCI/D Long Term Care unit must be located at ground level with access to outdoor spaces including a dedicated Therapeutic Courtyard. Each SCI/D Long Term Care unit should have its own building entrance with a covered canopy and parking lot with accessible parking that meets the requirements for spinal cord injury residents and their adaptive vehicles. The dedicated accessible parking spaces cannot be included in the required accessible parking count for the Medical Center in general. These spaces are in addition to the accessible parking requirement for the Medical Center. The at-grade entry and access to the outdoors is intended to encourage residents to be independent and to enjoy the off-unit environment.

   Like the SCI/D Acute Care facility, the SCI/D Long Term Care Center requires support services and clinical services from a host Medical Center. The SCI/D Long Term Care Center should be adjacent, via a climate-controlled connection, to services provided by the Medical Center, just as required for an SCI/D Acute Care Center. These services include Food and Nutrition Service, Supply, and Building Management Service as well as general and specialty clinics. If both types of SCI/D programs are located on the same Medical Center campus, SCI/D Long Term Care units should be physically separated from SCI/D acute patients to avoid impacting SCI/D acute patients who are in early stages of rehabilitation.
Regardless of whether SCI/D Acute Care and SCI/D Long Term Care are located on the same campus, patient/resident transfers need to be accommodated. Different scenarios for this exist but include SCI/D acute patients “stepping down” to SCI/D Long Term Care facility. In other cases, Long Term Care residents may need to be transferred to SCI/D Acute Care for medical or surgical conditions that require more intensive care and/or specialized services. Conditions may require medical isolation for co-morbid medical conditions and co-morbid psychological problems. Also, the distance between the SCI/D Long Term Care unit and Mental Health services should be maximized. This is mainly to provide a higher degree of protection from mental health patients who could be unstable and unpredictable.

The SCI/D Long Term Care facility that is not located in the same Medical Center as an SCI/D Acute Care facility should have its own clinic space. The clinic areas are used to support outpatient functions for long term care SCI/D patients and for inpatient residents.

3. **Layout**

  Layout concepts discussed for SCI/D Centers in Chapter 1.0 of this Design Guide are relevant for SCI/D Long Term Care units. The “home-like” environment of “Eden Concept” has been adopted by the VA for the Long Term Care Facilities. The environment should be designed as a more residential rather than acute care setting. On unit or sub-unit clusters as neighborhoods are desirable for the facility. Additionally, the residential nature of the SCI/D Long Term Care unit should encourage the following:

  - **Resident Rooms** should include many of the features found in the VA Nursing Home Care guidelines such as the encouragement of resident independence and interaction.
  - **Dining Facilities** should be more homelike.
  - **Recreational Facilities**, both indoor and outdoor, should be highly accessible for residents. These should include passive and active areas such as walkways, gardens and planted areas.
  - **Visiting Spaces** where residents can meet with family and/or friends need to be adjacent to resident living spaces.
  - **Services** used by residents need to be proximate whether they be therapy rooms, therapeutic baths, education spaces or others.

4. **Space**

  In the majority of cases, spaces for the SCI/D Long Term Care Center are identical in function and size to SCI/D Acute Care Center spaces. For the required rooms and sizes, refer to Space Allocation Matrices provided for each Center type (Acute Care, Long Term Care or Free-Standing Outpatient Clinics), located in Appendix B of this Design Guide. The following descriptions of spaces are for those that are specific to SCI/D Long Term Care:

  - **1-Bed Resident Room - Single or 1-bed rooms are similar for SCI/D Longer Terms Care residents to**
patients at acute care centers. (See Guide Plate No. 1-L) For planning purposes, a minimum of 73% of SCI/D Long Term Care beds should be 1-bed rooms, with the remainder 27% being 2-bed rooms. The minimum size of the SCI/D 1-bed Long Term Care resident room is larger than the SCI/D Acute Care 1-bed room. The minimum size of the SCI/D Long Term Care resident room is similar to the SCI/D Acute Center 1-bed rooms. (See Figure 4.1)

- **2-Bed Resident Room** - The 2-bed rooms in SCI/D Long Term Care units are larger than those in SCI/D Acute Care unit. The 2-bed room is especially helpful for residents who desire a roommate. (See Guide Plate No. 2-L). The effectiveness of 2-bed rooms may be enhanced when the rooms are designed to maximize equality of space for each resident such as access to the windows and the path to the litter bathroom.

Resident privacy should be maintained by means of ceiling mounted curtains that can be drawn around either of the two beds, in coordination with the transfer lift tracks. One private litter bath per patient bed will be allocated.

![Figure 4.1](image1.png)

**Figure 4.1**
1-Bed Resident Room Zoning Diagram

![Figure 4.2](image2.png)

**Figure 4.2**
2-Bed Resident Room Zoning Diagram

The minimum size of the 2-bed SCI/D Long Term Care resident room is slightly larger than the SCI/D Acute Care Center’s 2-bed rooms. (See Figure 4.2)

- **Special Care Room** - Some residents with special care needs may be best served in rooms that are designated as special care rooms. These resident rooms
may accommodate additional equipment such as ventilators.

An additional use for these rooms would be for bariatric residents who need specially dimensioned furniture to accommodate their size and weight. It is required that these special care rooms shall be all single or 1-bed rooms to avoid problems associated with resident care. Like the other resident rooms, there must be adequate space to allow for resident turnaround in a wheelchair as well as adequate space for resident transfer on/off lift devices.

Ceiling height should be a minimum of 9’-0” (2743 mm) for lift/transfer clearance and flexibility of fixed lift device installation and operation. (See Guide Plate No. 3 - L).

- **Resident Litter Bathroom** - To accommodate the level of care provided with staff assistance in the toileting and showering of SCI/D residents, the resident litter bathroom should be comparable in size to the litter bathroom provided for an SCI/D Acute Care patient. The ceiling transfer lift system used in the resident bed room is extended into the resident litter bathroom to provide transfer ability for the resident with staff assistance. For additional information on resident litter bathroom, please refer to Guide Plate No. 4 in Chapter 3 of this Design Guide.

The recommended use of the transfer lift system is for localized transfer (bed to chair, chair to bowel care chair, etc). Use of the transfer lift system to transport residents directly from bed to litter bathroom should be minimized. In new construction, each resident 1-bed or 2-bed room is required to have an adjoining toilet/shower room. (For separate bathrooms in semi-private rooms, please see Paragraph 1.2.4.4 in Chapter 1 of this Design Guide)

- **Nurse Station (Staff Station)** - The traditional, central nurse or staff station is at the hub of the SCI/D resident unit, (See Figure 4.3).

The approach to decentralize nurse stations near clusters of resident rooms is particularly relevant for SCI/D resident units since staffing ratios are high and since there may be substantial horizontal distances to accommodate oversized resident bed rooms and toilet/showers.
Another concept that may be explored in the planning/design phases is to open up the nurse/staff station by eliminating the traditional counter that separates staff from residents. This is seen as a more residential and therefore less institutional design solution. The nurse station concept selected by a SCI/D Long Term Care facility should be consistent with the plan of care. There is no one solution to the design of the nurse station. For additional information on Nurse Station, please refer to Guide Plate No. 6 in Chapter 3 of this Design Guide.

- **Visitor Lounge** - Since SCI/D Long Term Care residents may be lifelong occupants of the facility, spaces like the visitor lounge are very important. (See Guide Plate No. 4 - L).

As a socialization space, the visitor lounge serves as a place for residents to visit outside the resident room, with family or other residents, (See Figure 4.4).

Depending on center design, the visitor lounge could be subdivided into several smaller spaces.

- **(On-Unit) Resident Dining** - Meals and mealtime are considered very important to the SCI/D Long Term Care resident. Residents eat lunch and dinner communally in this space while breakfast is typically in the resident room.

Adequate space is needed for circulation between tables. At non-meal times, the resident dining room may be used for other purposes, especially where tables are needed, such as for table games and activities, (See Figure 4.5). The SCI/D Long Term Care dining facility should be more residential in appearance.

![Figure 4.5 Dining Room](SCI/D Center Long Term Care Center VAMC Hampton, VA)

However, meals are typically provided by the Medical Center’s dietetics service so the meal service concept needs to be coordinated with Medical Center capabilities. The on-unit resident dining concept, with a modular approach to resident seating, is shown in Guide Plate No. 8 - L.
It should be noted that the on-unit resident dining room shall not be provided in lieu of, but rather in addition to the resident dining/serving for Acute Care SCI/D facilities, as illustrated on Guide Plate No. 12 in Chapter 3 of this Design Guide.

- **Storage Room (Resident Belongings)** - The storage of resident belongings needs to be accommodated by the SCI/D Long Term Care facility. Even though storage generally is not encouraged, there is the realization that some veterans receiving care in the SCI/D Long Term Care facility have few available options.

  It is recognized that some storage is needed outside the resident room for those items that the residents retain and may use on occasion. The SCI/D Long Term Care facility must have a plan of care that addresses the types and quantities of items that individual residents may store and whether direct resident access is allowed. Storage for resident belongings may be accessed by residents, by staff, or a combination of both. One modular option for storage of resident belongings is shown in Guide Plate No. 9 - L.

- **Physical/Kinesiotherapy/Occupational Therapy** - SCI/D Long Term Care facilities may choose to combine physical therapy, kinesiotherapy and occupational therapy into one space.

  When these spaces are combined, the total square footage of the resulting room must accommodate the functions of the individual program spaces.

  The emphasis of PT/KT/OT is somewhat different from SCI/D Acute Care in that Acute Care patients are generally developing skills while the Long Term Care resident is maintaining skills.

  However, many of the activities and equipment are similar, including a need for transfer lifts. (See Guide Plate No. 7 - L).

  Occupational therapy focuses on strengthening and optimizing a resident's independence while concentrating on finer physical movement. Activities may include vocational training, including special adaptive equipment such as computers and telephones.

  Physical therapy concentrates on gross neuromuscular and skeletal activity. (See Figure 4.6).
Typical components of physical therapy may include mats, platforms, gait training, parallel bars, and weights, as well as other resistive equipment and orthotic and prosthetic training services. (See Figure 4.7).

**Figure 4.7**  
*Kinesiotherapy*  
SCI/D Center Long Term Care Center  
VAMC Hampton, VA

Kinesiotherapy combines exercise and education to motivate and assist residents in maintaining physical skills. Previously known as Collective Therapy, kinesiology focuses on large motor exercises and activities. (See Figure 4.7). A private Exam Room is desirable in proximity to the treatment area. (See Figure 4.8).

**Figure 4.8**  
*Private Exam room*  
Combined Therapy Suite  
VAMC N. Chicago

In the SCI/D Long Term Care facility, recreation therapy plays a very important role for the residents. Since residents may be lifelong, recreation therapy can be crucial to quality of life by providing activities, diversions, and opportunities to socialize through activities.

The recreation therapy room should accommodate a wide variety of recreational activities including adaptive games, traditional table games, as well as suitable arts and crafts. Working with recreation therapists, residents learn to use adaptive equipment and maintain manual dexterity.

The room also may be used by residents for self-directed activities. Ceiling mounted tables may be raised to permit other large group activities or sports requiring extensive floor space.

- **Passive and Active Outdoor Spaces** - Access to the outdoors is important to the residents of the SCI/D Long Term Care facility. (See Figure 4.9).

**Figure 4.9**  
*Outdoor Space*  
SCI/D Center Long Term Care Center  
VAMC Hampton, VA
Residents should be encouraged to be independent enough to use the SCI/D dedicated outdoor space as frequently as possible, weather permitting. Other passive and active outdoor spaces include paths and walkways, gardens and planted areas, seating and/or gathering places for meditation and conversation. (See Figure 4.10).

- **Computer Lab** - The typical SCI/D Long Term Care resident will have a desk and PC in his/her own room, unlike the SCI/D Acute Care patient. However, a need exists to provide a classroom for those residents who do not have a PC. In this classroom, SCI/D residents can receive training on the use of the Internet and other PC skills. A computer lab with a minimum of 3 to 4 PC stations, printer, and other appropriate equipment is recommended, (See Figure 4.12).

The PC locations can be either at the perimeter of the room, as shown on Guide Plate No.6 - L, or it can follow a more formal classroom arrangement with the PC desks placed in the center, facing a teaching location/screen.

In both cases, sufficient accessible circulation must be provided for residents and teachers.
- **Covered Entry** - At the main entry point of the SCI/D Long Term Care facility, there should be a covered entry for resident drop-off. During inclement weather, this area could be used by residents to be able to spend some time outdoors. (See Figure 4.13).

![Covered Entrance](image1)

**Figure 4.13**
**Covered Entrance**
SCI/D Center Long Term Care Center
VAMC Hampton, VA

- **Lobby/Entry** - In the SCI/D Long Term Care facility, the lobby/entry may serve several purposes. The lobby/entry may be appointed with stimulating features such as an aquarium, plants, and furnishings that are residential in nature. (See Figure 4.14).

![Lobby/Entry](image2)

**Figure 4.14**
**Lobby/Entry**
SCI/D Center Long Term Care Center
VAMC Hines, Illinois
4.1.2 Relationship and Flow Diagram

Figure 4.15
Spinal Cord Injury/Disorders-Long Term Care Center
Relationship and Flow Diagram. (NTS)
4.2 Technical Criteria

4.2.1 Codes, Standards and Executive Orders

The Department of Veterans Affairs requires design consultants to use the latest editions of codes and standards for all projects.

The current profiles of VA clients indicate that a high percentage of RESIDENTS require assistance in activities of daily living such as toileting and showering. The VA Barrier Free Supplement PG-18-13 establishes requirements, which differ from those of UFAS.

The more stringent requirement is to be followed. It is recommended that facilities adhere to the requirements of PG-18-13, and provide accessibility in 100% of bedrooms and patient toilets designed to accommodate Spinal Cord Injury/Disorders Veterans.

Typical staff assisted activities for veterans include transportation, toileting, bathing, showering, and transfer to and from wheelchairs and beds. Frequent use of lift devices is also required.

Required Codes and Standards for a Spinal Cord Injury/Disorders Long Term Care facility are covered in the Acute Care section of the SCI/D Design Guide in Chapter 2. For more information related to required Codes and Standards for SCI/D facilities, please refer to Chapter 2 of this Design Guide.

4.2.2 Site Considerations

Site analysis and planning are critical to the success of a project. The design team shall perform several preliminary analyses that will affect the final design of the SCI/D Long Term Care facility. Each project designer shall consider the project specifics that include, but are not limited to:

- Site Configuration and Size
- Availability of Parking at a Dedicated Entrance
- Access to VA Medical Center
- Site Topography
- Regional and Climatic Factors
- Utilities
- Outdoor Access

Site related factors required for a Spinal Cord Injury/Disorders Long Term Care facility are covered in the Acute Care Section of the SCI/D Design Guide in Chapter 2. For more information related to the Site Considerations of SCI/D facilities, please refer to Chapter 2 of this Design Guide.

4.2.3 Systems Criteria

All systems and infrastructure criteria shall conform to and comply with the most current version of the Department of Veterans Affairs Design Manuals, VA Design and Construction Procedures, VA Master Construction Specifications, and VA Standard Details, where applicable. Deviations from the VA guidelines may be allowed, provided prior approval is obtained from the VA CFM.
Where specific VA requirements are not available or indicated in this document, design criteria from industry standards such as the National Standard Plumbing Code (NSPC), the National Fire Protection Association (NFPA), ASHRAE, National Electrical Code (NEC), DOE or similar reference guides shall be submitted to the VA for review and approval.

Systems and infrastructure criteria for a Spinal Cord Injury/Disorders Long Term Care facility are also covered in the Acute Care Section of the SCI/D Design Guide in Chapter 2. For more information related to systems and infrastructure criteria for SCI/D facilities, please refer to Chapter 2 of this Design Guide as well as the VA Technical Information Library (TIL).
4.2.4 Programming and Space Criteria

The following information is excerpted from Chapters 104 of the VA Space Planning Criteria for use in this Design Guide. For more detailed planning & programming Information, please refer to the Department of Veteran’s Affairs Technical Information Library (TIL) on the VA’s website - www.va.gov/facmgt/standards.

Space Listing

The Spinal Cord Injury/Disorders Center is organized in four Functional groups: A. Patient Care Units; B. Patient Care Unit Support; C. Clinics and Therapy; D. Administration. Note that all square footages included herein are indicated as net square footage (NSF) area numbers. As such, the listings of square footage and subsequent illustrations require the addition of the respective department gross square footage (DGSF) multipliers.

For the typical rooms and sizes, for each SCI/D Center type (Acute Care, Long Term Care or Free-standing Outpatient Clinics) refer to Space Allocation Matrices, located in Appendix B of this Design Guide.

Per VA Space Planning Criteria, certain patient load/workload related spaces may change in size, based on date entered into the formulas. Where shown in the Guideplates, these spaces are typically sized for optimum graphical representation and minimum dimensions / clearances are indicated.

The Guideplates shown in Chapters 3 and 4 of this Design Guide are graphical representations of selected room types that illustrate the integration of space, components, systems and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library (TIL).

A. Resident Care Units

1. One-Bed Room (BRMS1) .....................................................320 NSF (29.8 NSM)
2. Two-Bed Room (BRMS2) .....................................................480 NSF (44.6 NSM)
3. Negative Isolation Room (BRIT1)/ Anteroom (BRAR1) .........................320 NSF (29.8 NSM)/75 NSF (7.0 NSM)
4. Special Care Room (BRMS1) .................................................320 NSF (29.8 NSM)
5. Resident (Litter) Bathroom (TLTS1) ........................................120 NSF (11.2 NSM)
B. Resident Care Unit Support

1. Entrance/Waiting (WRC01)/Information Desk (RECP3).......................... 200 NSF (18.6 NSM)/100 NSF (9.3 NSM)
2. Nurse Station (NSTA1)........................................................................ 300 NSF (27.9 NSM)
3. Ward Clerk (OFA01/OFA02).......................................................... 80 NSF (7.5 NSM)
4. Medication Room (MEDP1).............................................................. 120 NSF (11.2 NSM)
5. Conference/Classroom (CRA02)...................................................... 300 NSF (27.9 NSM)
6. Nurse Supervisor’s Office (OFD01).................................................. 130 NSF (12.1 NSM)
7. Staff Lounge (SL001); or Staff Locker Room (LR001); or Staff Shower (TLTS1).............................................................. 80 NSF (7.5 NSM)
8. Staff Toilet (TLTU1); or Public Toilet (TLTU1); or Resident Toilet (TLTU1)........................................................................ 60 NSF (5.6 NSM)
9. Resident Education (OFA03).......................................................... 250 NSF (32.2 NSM)
10. (On-Unit) Resident Dining/Serving (FSCD1).................................... 1665 NSF (154.7 NSM)
11. Resident Laundry (XXYYC).............................................................. 100 NSF (9.3 NSM)
12. Quiet Room (OFA02).................................................................... 150 NSF (13.9 NSM)
13. Visitor Lounge (WRC02)/Day Room/Lounge (DAYR1)............. 200 NSF (18.6 NSM)/400 NSF (37.2 NSM)
14. Nourishment Kitchen (NCWD1)...................................................... 100 NSF (9.3 NSM)
15. Activities Coordinator Office (OFD01)............................................ 130 NSF (12.1 NSM)
16. Veterans Service Organization Office (OFA01/OFA02); or NSO-PVA Organization Office (OFA01/OFA02).................. 130 NSF (12.1 NSM)
17. Litter Storage (SRLW1)................................................................... 300 NSF (27.9 NSM)
18. Transfer Equipment Storage (SRE01)/Medical Equipment Storage (SRE01).................................................. 210 NSF (19.5 NSM)/180 NSF (16.8 NSM)
19. Exam/Treatment (TRGM1).............................................................. 180 NSF (16.8 NSM)
20. Hydrotherapy (PTWT1)/Tubroom (PTWT1)................................. 380 NSF (35.4 NSM)/200 NSF (18.6 NSM)
21. Clean Linen Holding (LCCL1)......................................................... 42 NSF (3.9 NSM)
22. Stretcher/Wheelchair Alcove (SRLW1)........................................... 40 NSF (3.7 NSM)
23. Clean Utility Room (UCCL1)/Soiled Utility Room (USCL1)........ 150 NSF (13.9 NSM)/120 NSF (11.2 NSM)
24. Clean Linen Storage (LCCL1)/
   Soiled Linen Storage (LCSL1) .................. 80 NSF (7.5 NSM)/ 60 NSF (5.6 NSM)
25. Housekeeping Aides’ Closet - HAC (JANC1) .................. 40 NSF (3.7 NSM)
26. Meditation Room (RAMR1) .................................................. 150 NSF (13.9 NSM)
27. Resident Storage - Resident Belongings (SRPB1) ............. 180 NSF (16.8 NSM)

C. Clinics and Therapy
1. Clinician Office (OFD01) .................................................. 130 NSF (12.1 NSM)
2. Clean Utility Room (UCCL1) ................................................. 120 NSF (11.2 NSM)
3. Soiled Utility Room (USCL1) ..................................................... 80 NSF (7.5 NSM)
4. Housekeeping Aides’ Closet - HAC (JANC1) .................. 40 NSF (3.7 NSM)
5. Equipment Storage (SRE01) ................................................ 150 NSF (13.9 NSM)
6. PT/KT/OT Clinic (PTES1) .................................................. 1700 NSF (157.9 NSM)
7. Combined PT/KT/OT Occupational Therapy (XXXXX) ........... 800 NSF (74.3 NSM)
8. Recreation Therapy (PTES1) .......... 850 /1100/1400 NSF (79/102.2/130.1 NSM)
9. Computer Lab (CRA02) .................................................. 300 NSF (27.9 NSM)
10. Therapist Cubicle (PTCW1) ................................................ 80 NSF (7.5 NSM)
11. Exam/Treatment Room (TRGS1) .......................................... 180 NSF (16.8 NSM)
12. Public Toilet (TLTU1); or Resident Toilet (TLTU1) ............. 60 NSF (5.6 NSM)

D. Administration
1. Chief of Service Office (OFM03) ........................................... 150 NSF (13.9 NSM)
2. Secretary/Waiting Office (SEC01) ....................................... 120 NSF (11.2 NSM)
3. Psychologist Office (OFDC1); or Social Worker Office (OFDC1); or Dietitian Office (OFA01/OFA02) .......... 130 NSF (12.1 NSM)
4. Nurse Administrator Office (OFD01)/ or Physician Office (OFD01) ........................................ 130 NSF (12.1 NSM)
5. Conference Room (CRA02) .................................................. 300 NSF (27.9 NSM)
6. Medical Records/QA (MRS01) .............................................. 150 NSF (13.9 NSM)
7. Clerical Cubicle (OFA03) .................................................. 80 NSF (7.5 NSM)
8. Administrative Officer Office (OFA01) .................................. 150 NSF (13.9 NSM)
4.2.5 Planning and Design Data References

- VA Space Planning Criteria (Chapters 104, 106 & 270). Department of Veterans Affairs, June 8, 1993. (updated publication date should be listed once the chapter is officially adopted)


- VA Nursing Home Design Manual, 2006


- HIPAA Privacy Rule: www.healthprivacy.org/ and www.hhs.gov/ocr/hipaa/
4.3 Interior Guideplates*

1 - L. One-Bed Room (BRMS1) .......................................................... 4 - 19
2 - L. Two-Bed Room (BRMS2) .......................................................... 4 - 23
3 - L. Special Care Room (BRMS1) .................................................... 4 - 27
4 - L. Visitor Lounge (WRC02) ....................................................... 4 - 33
5 - L. Recreation Therapy (PTES1) ................................................... 4 - 37
6 - L. Computer Lab (CRA02) ......................................................... 4 - 41
7 - L. PT/KT/OT Clinic (PTES1) ....................................................... 4 - 45
8 - L. (On-Unit) Resident Dining/Serving (FSCD1) .............................. 4 - 51
9 - L. Resident Storage - Resident Belongings (SRPB1) ...................... 4 - 55

Guideplates are graphical representations of selected room types that illustrate the integration of space, components, systems and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library (TIL).
Page Left Blank Intentionally
1 - L. One-Bed Room (BRMS1)

Floor Plan

* Note: For Resident (Litter) Bathroom Configuration See Guideplate No. 4 in Chapter 3 of this Design Guide.

320 NSF (29.7 NSM)
1 - L. One-Bed Room (BRMS1)
Reflected Ceiling Plan

RETURN REGISTER

* MOVABLE / UNIVERSAL LIFT

CEILING MOUNTED FLUORESCENT LIGHT FIXTURES CENTER OVER RESIDENT BED

CURTAIN TRACKS

LINEAR DIFFUSER

CEILING MOUNTED FLUORESCENT LIGHT FIXTURE (TYP)

SUPPLY DIFFUSER (TYP.)

* SINGLE TRACK LIFT

NIGHT LIGHT

NURSE CALL LIGHT

NOTE: * BOTH SINGLE TRACK & MOVABLE OR UNIVERSAL TRACK LIFT SYSTEMS ARE INDICATED IN THE PLAN AS AN OPTION. THE TYPE OF LIFT TO BE USED ON SPECIFIC PROJECT IS TO BE SPECIFIED / SELECTED BY THE VA CENTER OR STATION. LOCATIONS OF SINGLE TRACK LIFT RAILS AND LIGHTING FIXTURES MUST BE COORDINATED BY PROJECT DESIGNER.

320 NSF (29.7 NSM)
1 - L. One-Bed Room (BRMS1)

Space Requirement:
320 NSF (29.7 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Resilient Base (RB)
Wall Finish: Gypsum Wallboard*
Ceiling: Acoustical Tile
Ceiling Height: 9'-0" (2743 mm)/8'-0" (2438 mm) w/wall-mount TV
Noise (STC Rating): 40
Slab Depression: None
Special Construction: -
Hardware: 7
Doors: 4'-0" x 7'-0" (1219 mm x 2134 mm) wood or metal, optional view glass panel. Automatic sliding doors into bathroom/toilet.
Windows: Required by code, operable, see PG-18-3, Topic 1, Codes, Standards and Executive Orders

*Vinyl Wallcovering at Lavatory

HVAC:
Temperature/Humidity:
Summer: 72˚F (22˚C) @60%RH
Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Neutral (0)
Max Noise Criteria: 35

Electrical:
Lighting Levels:
Gen. Illum: 10fc
Task Illum: 70fc
Over Bed: 30fc
Emergency Power:
Night Lights
One Receptacle
Nurse Call
## 1 - L. One-Bed Room (BRMS1)

### Equipment Table:

<table>
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<td>VV</td>
<td></td>
<td>BED, ELECTRIC, 120 VOLT, 20 AMP, 1067 mm X 2134 mm (42&quot; X 84&quot;), WITH 76 mm (3&quot;) BUMPER GUARD</td>
</tr>
<tr>
<td>1</td>
<td>VV</td>
<td></td>
<td>STAND, NIGHT, WITH TOWEL BAR, 470 mm X 464 mm X 876 mm (18-1/2&quot; X 19&quot; X 34-1/2&quot;)</td>
</tr>
<tr>
<td>2</td>
<td>VV</td>
<td></td>
<td>VISITOR’S CHAIR</td>
</tr>
<tr>
<td>AR</td>
<td>CC</td>
<td></td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP, FOR POWER OPERATED BED ON WALL AT HEAD OF BED</td>
</tr>
<tr>
<td>1</td>
<td>CC</td>
<td></td>
<td>LIGHT, NIGHT (FLUORESCENT, OR AS SPECIFIED)</td>
</tr>
<tr>
<td>AR</td>
<td>CC</td>
<td></td>
<td>FIXTURE, LIGHTING, FLUORESCENT, FOR GENERAL ILLUMINATION AND READING LIGHT ON HEAD WALL OVER EACH BED, WITH QUIET SWITCH ON FIXTURE WITHIN REACH OF RESIDENT IN BED BY PULL CORD SWITCH</td>
</tr>
<tr>
<td>1</td>
<td>CC</td>
<td></td>
<td>LIGHT, NIGHT, INCADESCENT, CEILING MOUNTED @ ENTRANCE (PG – 18 – 1, MSC 16510)</td>
</tr>
<tr>
<td>1</td>
<td>CC</td>
<td></td>
<td>WARDROBE LOCKER, PATIENT, WITH PUSH BUTTON SECURITY LOCK, 36&quot;W X 25½&quot;D X 78&quot;H, WALL MOUNTED</td>
</tr>
<tr>
<td>1</td>
<td>VV</td>
<td></td>
<td>DRESSER, WITH 3 DRAWERS</td>
</tr>
<tr>
<td>AR</td>
<td>CC</td>
<td></td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP, ON WALL, ONE EACH SIDE OF BED</td>
</tr>
<tr>
<td>1</td>
<td>VV</td>
<td></td>
<td>TELEVISION, FLAT PANEL, WALL MOUNTED WITH ADJUSTABLE ARM.</td>
</tr>
<tr>
<td>1</td>
<td>VV</td>
<td></td>
<td>BRACKET, TELEVISION</td>
</tr>
<tr>
<td>1</td>
<td>VV</td>
<td></td>
<td>TABLE LAMP, WALL MOUNTED ABOVE NIGHT STAND</td>
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<td></td>
<td>END TABLE</td>
</tr>
<tr>
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<td></td>
<td>MIRROR WITH VANITY LIGHT</td>
</tr>
<tr>
<td>TYPE S-4</td>
<td>1</td>
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<td>VANITY, WITH HIGH PRESSURE PLASTIC LAMINATE COUNTER TOP, MOLDED SELF EDGE AND BACKSPLASH (PG-18-1, MCS 12302)</td>
</tr>
<tr>
<td>1</td>
<td>CC</td>
<td></td>
<td>DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
</tr>
<tr>
<td>1</td>
<td>CC</td>
<td></td>
<td>PAPER TOWEL DISPENSER &amp; DISPOSER (COMBO)</td>
</tr>
<tr>
<td>1</td>
<td>VV</td>
<td></td>
<td>DESK, 610 mm X 914 mm (24 X 36&quot;)</td>
</tr>
<tr>
<td>1</td>
<td>VV</td>
<td></td>
<td>WASTE RECEPTACLE</td>
</tr>
<tr>
<td>1</td>
<td>VV</td>
<td></td>
<td>TELEPHONE</td>
</tr>
<tr>
<td>1</td>
<td>VC</td>
<td></td>
<td>RESIDENT LIFT &amp; TRACK</td>
</tr>
<tr>
<td>1</td>
<td>CC</td>
<td></td>
<td>CALL, NURSES PANEL, WITH CORRIDOR SIGNAL LIGHT (PG-18-1, MCS 16761)</td>
</tr>
<tr>
<td>P-413</td>
<td>1</td>
<td>CC</td>
<td>LAVATORY COUNTER MOUNTED, 19&quot; DIAMETER WRIST BLADE HANDLES, GOOSENECK SPOUT (PG-18-1, MCS 15450)</td>
</tr>
</tbody>
</table>

**TABLE 4.1-L**

**ONE-BED ROOM (BRMS1)**
2 - L. Two-Bed Room (BRMS2)
Reflected Ceiling Plan

NOTE: * BOTH SINGLE TRACK & MOVABLE OR UNIVERSAL TRACK LIFT SYSTEMS ARE INDICATED IN THE PLAN AS AN OPTION. THE TYPE OF LIFT TO BE USED ON SPECIFIC PROJECT IS TO BE SPECIFIED / SELECTED BY THE VA CENTER OR STATION. LOCATIONS OF SINGLE TRACK LIFT RAILS AND LIGHTING FIXTURES MUST BE COORDINATED BY PROJECT DESIGNER. * THERE SHALL BE NO PATIENT LIFT TRACK CONNECTIONS BETWEEN PATIENT ROOM AND PATIENT BATHROOM. * PATIENT LIFT MUST STAY INSIDE CURTAIN. * LOCATE REQUIRED SPRINKLERS PER CODE AND TO BE COORDINATED WITH CURTAIN LOCATIONS.

480 NSF (44.6 NSM)
2 - L. Two-Bed Room (BRMS2)

Space Requirement:
480 NSF (44.6 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Resilient Base (RB)
Wall Finish: Gypsum Wallboard*
Ceiling: Acoustical Tile
Ceiling Height: 9'-0" (2743 mm)/8'-0" (2438 mm) w/wall-mount TV
Noise (STC Rating): 40
Slab Depression: None
Special Construction: -
Hardware: 7
Doors: 4'-0" x 7'-0" (1219 mm x 2134 mm) wood or metal, optional view glass panel.
Windows: Required by code, operable, see PG-18-3, Topic 1, Codes, Standards and Executive Orders.

*Vinyl Wallcovering at Lavatory

HVAC:
Temperature/Humidity:
    Summer: 72˚F (22˚C) @60%RH
    Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Neutral (0)
Max Noise Criteria: 35

Electrical:
Lighting Levels:
    Gen. Illum: 10fc
    Task Illum: 70fc
    Over Bed: 30fc
Emergency Power:
    Night Lights
    Vanity Light
    Two Receptacles (One per resident bed)
    Nurse Call
## 2 - L. Two-Bed Room (BRMS2)

### Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>A</td>
<td>B</td>
</tr>
<tr>
<td>2</td>
<td>VV</td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>2</td>
<td>VV</td>
<td>STAND</td>
<td>NIGHT, WITH TOWEL BAR, 470 mm X 464 mm X 876 mm (18-1/2&quot; X 19&quot; X 34-1/2&quot;)</td>
</tr>
<tr>
<td>4</td>
<td>VV</td>
<td>VISITOR’S CHAIR</td>
<td></td>
</tr>
<tr>
<td>AR</td>
<td>CC</td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>AR</td>
<td>CC</td>
<td>FIXTURE, LIGHTING, FLUORESCENT, FOR GENERAL ILLUMINATION AND READING LIGHT ON HEAD WALL OVER EACH BED, WITH QUIET SWITCH ON FIXTURE WITHIN REACH OF RESIDENT IN BED BY PULL CORD SWITCH</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>CC</td>
<td>LIGHT, NIGHT, INCADESCENT, CEILING MOUNTED @ ENTRANCE (PG – 18 – 1, MSC 16510)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CC</td>
<td>WARDROBE LOCKER, PATIENT, WITH PUSH BUTTON SECURITY LOCK, 36”W X 25½”D X 78”H, WALL MOUNTED</td>
<td></td>
</tr>
<tr>
<td>AR</td>
<td>CC</td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>AR</td>
<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP, ON WALL, ONE EACH SIDE OF BED</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>VV</td>
<td>TELEVISION, FLAT PANEL, WALL MOUNTED WITH ADJUSTABLE ARM.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>VV</td>
<td>TABLE LAMP, WALL MOUNTED ABOVE NIGHT STAND</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>VV</td>
<td>END TABLE</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>CC</td>
<td>MIRROR WITH VANITY LIGHT</td>
<td></td>
</tr>
<tr>
<td>TYPE S-4</td>
<td>CC</td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>1</td>
<td>CC</td>
<td>VANITY, WITH HIGH PRESSURE PLASTIC LAMINATE COUNTER TOP, MOLDED SELF EDGE AND BACKSPLASH (PG-18-1, MCS 12302)</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>CC</td>
<td>DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>CC</td>
<td>PAPER TOWEL DISPENSER &amp; DISPOSER (COMBO)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>VV</td>
<td>DESK, 610 mm X 914 mm (24” X 36”)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>VV</td>
<td>WASTE RECEPTACLE</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>VV</td>
<td>TELEPHONE</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>VC</td>
<td>RESIDENT LIFT &amp; TRACK</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CC</td>
<td>CALL, NURSES PANEL, WITH CORRIDOR SIGNAL LIGHT (PG-18-1, MCS 16761)</td>
<td></td>
</tr>
<tr>
<td>P-413</td>
<td>CC</td>
<td>LAVATORY COUNTER MOUNTED, 19” DIAMETER WRIST BLADE HANDLES, GOOSENECK SPOUT (PG-18-1, MCS 15450)</td>
<td></td>
</tr>
</tbody>
</table>

**TABLE 4.2-L**

**TWO-BED ROOM (BRMS2)**
3 - L. Special Care Room (BRMS1)
Floor Plan

*Note: For Resident (Litter) Bathroom Configuration See Guideplate No. 4 in Chapter 3 of this Design Guide.

320 NSF (29.7 NSM)
3 - L. Special Care Room (BRMS1)
Reflected Ceiling Plan

NOTE: *
* BOTH SINGLE TRACK & MOVABLE OR UNIVERSAL TRACK LIFT SYSTEMS ARE INDICATED IN THE PLAN AS AN OPTION. THE TYPE OF LIFT TO BE USED ON SPECIFIC PROJECT IS TO BE SPECIFIED / SELECTED BY THE VA CENTER OR STATION. LOCATIONS OF SINGLE TRACK LIFT RAILS AND LIGHTING FIXTURES MUST BE COORDINATED BY PROJECT DESIGNER.
* THERE SHALL BE NO PATIENT LIFT TRACK CONNECTIONS BETWEEN PATIENT ROOM AND PATIENT BATHROOM.
* PATIENT LIFT MUST STAY INSIDE CURTAIN.
* LOCATE REQUIRED SPRINKLERS PER CODE AND TO BE COORDINATED WITH CURTAIN LOCATIONS.

320 NSF (29.7 NSM)
3 - L. Special Care Room (BRMS1)

Space Requirement:
320 NSF (29.7 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Gypsum Wallboard*
Ceiling: Acoustical Tile
Ceiling Height: 9'-0" (2743 mm)/8'-0" (2438 mm) w/wall-mount TV
Noise (STC Rating): 35
Slab Depression: None
Special Construction: -
Hardware: 7
Doors: 4'-0" x 7'-0" (1219 mm x 2134 mm) wood or metal, optional view glass panel.
Windows: Required by code, operable, see PG-18-3, Topic 1, Codes, Standards and Executive Orders.

*Vinyl Wallcovering at Lavatory

HVAC:
Temperature/Humidity:
  Summer:  72˚F (22˚C) @60%RH
  Winter:  82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Neutral (0)
Max Noise Criteria: 40

Electrical:
Lighting Levels:
  Gen. Illum: 10 fc
  Task Illum: 70 fc
  Over Bed: 30 fc
Emergency Power:
  Medical Gases
  Night Lights
  Vanity Lights
  One Receptacle
  Nurse Call
## 3 - L. Special Care Room (BRMS1)

### Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A B C D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 VV</td>
<td></td>
<td></td>
<td>BED WITH MATTRESS, HOSPITAL PATIENT, ELECTRIC, HI-LO, 42&quot;W X 94&quot;L WITH 3&quot; DIA. WHEELS AND TRAPEZE BAR</td>
</tr>
<tr>
<td>1 CC</td>
<td></td>
<td></td>
<td>BUMPER GUARD, 2&quot; DEEP, WALL-MOUNTED OFF THE FLOOR BEHIND HEAD OF BED</td>
</tr>
<tr>
<td>1 VV</td>
<td></td>
<td></td>
<td>TABLE, OVER-BED, ADJUSTABLE HEIGHT, 33&quot;W X 14&quot; D, ON CASTERS</td>
</tr>
<tr>
<td>1 VV</td>
<td></td>
<td></td>
<td>CABINET, BEDSIDE, PORTABLE 20&quot;W X 16&quot;D X 34 ½&quot;H</td>
</tr>
<tr>
<td>2 VV</td>
<td></td>
<td></td>
<td>CHAIR, VISITOR</td>
</tr>
<tr>
<td>1 VV</td>
<td></td>
<td></td>
<td>END TABLE</td>
</tr>
<tr>
<td>1 CC</td>
<td></td>
<td></td>
<td>WARDROBE LOCKER, PATIENT, WITH PUSH BUTTON SECURITY LOCK, 36&quot;W X 25 ½&quot;D X 78&quot;H (TOP SHELF FOR PILLOW AND BLANKET STORAGE) WALL MOUNTED</td>
</tr>
<tr>
<td>1 CC</td>
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<td></td>
<td>PREFABRICATED BEDSIDE POWER UNIT: TYPE 3, PG-18-4, SD 16630-12.DWG and 16685-4.DWG</td>
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<tr>
<td>1 CC</td>
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<td></td>
<td>OUTLET, MASTER TELEVISION ANTENNA (H-08-1, MCS 16781: H-08-3, CS 864-1)</td>
</tr>
<tr>
<td>1 VV</td>
<td></td>
<td></td>
<td>BRACKET FOR TELEVISION RECEIVER</td>
</tr>
<tr>
<td>1 VV</td>
<td></td>
<td></td>
<td>TELEVISION, FLAT PANEL, WALL MOUNTED, ADJUSTABLE ARM</td>
</tr>
<tr>
<td>1 VV</td>
<td></td>
<td></td>
<td>LIGHT, BED (ON WALL OVER BED 7 FEET ABOVE FLOOR) PG-18-1, MCS 16510</td>
</tr>
<tr>
<td>1 CC</td>
<td></td>
<td></td>
<td>LIGHT, FLUORESCENT, FOR EXAMINATION ILLUMINATION, CEILING MOUNTED OVER EACH BED (PG-18-1, MCS 16510)</td>
</tr>
<tr>
<td>1 CC</td>
<td></td>
<td></td>
<td>LIGHT, NIGHT, INCANDESCENT, CEILING MOUNTED AT ENTRANCE TO BED ROOM WITH SWITCH AT ENTRANCE TO BED ROOM (PG-18-1, MCS 16510)</td>
</tr>
<tr>
<td>TYPE S - 4</td>
<td>1 CC</td>
<td></td>
<td>VANITY, WITH HIGH PRESSURE PLASTIC LAMINATE COUNTER TOP, MOLDED SELF EDGE AND BACKSPLASH (PG-18-1, MCS 12302)</td>
</tr>
<tr>
<td>P - 413</td>
<td>1 CC</td>
<td></td>
<td>LAVATORY COUNTER MOUNTED, 19&quot; DIAMETER WRIST BLADE HANDLES, GOOSENECK SPOUT (PG-18-1 MCS 15450))</td>
</tr>
<tr>
<td>1 CC</td>
<td></td>
<td></td>
<td>DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
</tr>
<tr>
<td>1 CC</td>
<td></td>
<td></td>
<td>MIRROR, 24&quot;W X 36&quot;L (PG-18-1, MCS 10800)</td>
</tr>
<tr>
<td>1 CC</td>
<td></td>
<td></td>
<td>LIGHT, FLUORESCENT, VERTICAL BARS WALL MOUNTED AT EACH SIDE OF THE MIRROR (PG-18-1, MCS 16510)</td>
</tr>
<tr>
<td>2 CC</td>
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<td></td>
<td>DISPENSER, PAPER TOWEL AND DISPOSAL COMBINATION UNIT (PG-18-1, MCS 10800)</td>
</tr>
<tr>
<td>1 CC</td>
<td></td>
<td></td>
<td>RECEPTACLE, ELECTRICAL, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
</tr>
</tbody>
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**TABLE 4.3-L**  
**SPECIAL CARE ROOM (BRMS1)**
### 3 - L. Special Care Room (BRMS1)

**Equipment Table:**

<table>
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<th>AI</th>
<th>DESCRIPTION</th>
</tr>
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<td></td>
</tr>
<tr>
<td>1</td>
<td>VV</td>
<td></td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
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<tr>
<td>1</td>
<td>CC</td>
<td></td>
<td>CALL, NURSES PANEL, WITH CORRIDOR SIGNAL LIGHT (PG-18-1, MCS 16761)</td>
</tr>
<tr>
<td>1</td>
<td>CC</td>
<td></td>
<td>OBSERVATION WINDOW ON CORRIDOR WALL, FIXED FRAME WITH INTEGRAL BLIND CONTROLLED FROM INSIDE THE RESIDENT ROOM.</td>
</tr>
<tr>
<td>P - 418</td>
<td>CC</td>
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<td>STAFF SINK, LAVATORY</td>
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<td>CC</td>
<td></td>
<td>CEILING LIFT AND TRACK</td>
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<td>VV</td>
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<td>TELEPHONE</td>
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<td>VV</td>
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<td>WASTE RECEPTACLE</td>
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<tr>
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<td>CC</td>
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<td>PAPER TOWEL DISPENSER</td>
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</tbody>
</table>

**TABLE 4.3-L (CONT’D)**

**SPECIAL CARE ROOM (BRMS1)**
4 - L. Visitor Lounge (WRC0R)
Floor Plan
4 - L. Visitor Lounge (WRC0R)
Reflected Ceiling Plan
4 - L. Visitor Lounge (WRC02)

Space Requirement:
200 NSF (18.6 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Gypsum Wallboard*
Ceiling: Acoustical Tile
Ceiling Height: 9’-0” (2743 mm)/8’-0” (2438 mm) w/wall-mount TV
Noise (STC Rating): 35
Slab Depression: None
Special Construction: -
Hardware: 7
Doors: 4’-0” x 7’-0” (1219 mm x 2134 mm) wood or metal, optional view glass panel.
Windows: Required by code, operable, see PG-18-3, Topic 1, Codes, Standards and Executive Orders.

*Vinyl Wallcovering at Lavatory

HVAC:
Temperature/Humidity:
  Summer: 72˚F (22˚C) @60%RH
  Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Neutral (0)
Max Noise Criteria: 40

Electrical:
Lighting Levels:
  Three Level Fluorescent:
    High: 60fc
    Med: 45fc
    Low: 20fc
  Incandescent
  Wall-Washers on Dimmer: 0fc-5fc
Emergency Power:
  One Ceiling Light
  Nurse Call
### 4 - L. Visitor Lounge (WRC02)

**Equipment Table:**

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<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
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<td><strong>B</strong></td>
<td><strong>C</strong></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>VV</td>
<td>VV</td>
<td>SOFA, 3 SEAT UPHOLSTERED, APPROX 83&quot; W X 33&quot; D X 28&quot; H</td>
</tr>
<tr>
<td>3</td>
<td>VV</td>
<td>VV</td>
<td>EASY CHAIR, UPHOLSTERED, REGULAR</td>
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<tr>
<td>2</td>
<td>VV</td>
<td>VV</td>
<td>TABLE, SIDE, APPROX 41&quot; W X 20&quot; D X 15&quot; H</td>
</tr>
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<td>CC</td>
<td>CC</td>
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</tr>
<tr>
<td>1</td>
<td>VV</td>
<td>VV</td>
<td>BRACKET FOR TELEVISION RECEIVER, WALL-MOUNTED</td>
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<td>VV</td>
<td>VV</td>
<td>RECEIVER, TELEVISION WALL MOUNTED</td>
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<tr>
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<td>CC</td>
<td>RECEPTACLE, ELECTRICAL, WALL MOUNTED 120 VOLT, 20 AMP FOR WALL MOUNTED TELEVISION SET (PG-18-1, MCS 16140)</td>
</tr>
<tr>
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<td>VV</td>
<td>VV</td>
<td>TELEVISION, FLAT PANEL, WALL MOUNTED, ADJUSTABLE ARM</td>
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<td>VV</td>
<td>VV</td>
<td>CLOCK, BATTERY OPERATED</td>
</tr>
<tr>
<td>2</td>
<td>VV</td>
<td>VV</td>
<td>LAMP, TABLE (FIXED &amp; HARD WIRED)</td>
</tr>
<tr>
<td>1</td>
<td>VV</td>
<td>VV</td>
<td>PAY TELEPHONE</td>
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<td>LIGHT, FLOURESCENT, GENERAL LIGHT (PG – 18 – 1, MSC 16510)</td>
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<td>LIGHT, NIGHT, INCADESCENT, CEILING MOUNTED @ ENTRANCE (PG – 18 – 1, MSC 16510)</td>
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<td>CALL, NURSES PANEL, WITH CORRIDOR SIGNAL LIGHT (PG-18-1, MCS 16761)</td>
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</tbody>
</table>

**TABLE 4.4-L**

VISITOR LOUNGE (WRC02)
5 - L. Recreation Therapy (PTES1)

Floor Plan

- PC STATIONS (VV)
- MODULAR FURNITURE
- WALL-MOUNTED STORAGE SYSTEM
- STORAGE CABINET (VV)
- FOLDING PARTITION
- SERVICE SINK
- MODULAR FURNITURE WORKSURFACE @ 30" (762 mm)
- A.F.F. & STORAGE
- SPACE ABOVE @ 46" (1168 mm)
- A.F.F. MAX.
- 5'-6" (1676 mm) STORAGE ROOM ACCESS
- BILLYARD CUE RACK
- BILLYARD TABLE (VV)

Dimensions:
- 27'-3" (8468 mm)
- 19'-0" (5791 mm)
- 20'-6" (6248 mm)

Bedding Requirements:
- 0-30 Beds: 850 NSF (79 NSM)
- 31-60 Beds: 1100 NSF (102.2 NSM)
- Over 60 Beds: 1400 NSF (130.1 NSM)
5 - L. Recreation Therapy (PTES1)
Reflected Ceiling Plan

- Nurse Call Light
- Observation Window
- Electrically Operated Ceiling Mounted Table
- Ceiling Mounted Fluorescent Lights (Typ)
- Pendant Light

0-30 Beds: 850 NSF (79 NSM)
31-60 Beds: 1100 NSF (102.2 NSM)
Over 60 Beds: 1400 NSF (130.1 NSM)
5 - L. Recreation Therapy (PTES1)

Space Requirement:
0-30 Beds: 850 NSF (79 NSM)
31-60 Beds: 1100 NSF (102.2 NSM)
60 or more: 1400 NSF (130.1 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: GWB/Vinyl Fabric Wallcovering
Ceiling: Acoustical Tile
Ceiling Height: 10'-0" (3048 mm)/9'-0" (2743 mm) w/wall-mount TV
Noise (STC Rating): 45
Slab Depression: None
Special Construction: -
Hardware: 82
Doors: 2@ 3'-0" x 7'-0" (914 mm x 2133 mm) wood or metal, upper half laminated safe glass.
Windows: Required by code, operable, see PG-18-3, Topic 1, Codes, Standards and Executive Orders.

*Vinyl Wallcovering at Lavatory

HVAC:
Temperature/Humidity:
   Summer: 72˚F (22˚C) @60%RH
   Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Neutral (0)
Max Noise Criteria: 40

Electrical:
 lighting Levels:
   Gen. Illum: 30fc
Emergency Power:
   One Ceiling Light
   Nurse Call
## 5 - L. Recreation Therapy (PTES1)

**Equipment Table:**

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<th>DESCRIPTION</th>
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**TABLE 4.5-L**

RECREATION THERAPY (PTES1)
6 - L. Computer Lab (CRA02)
Floor Plan
6 - L. Computer Lab (CRA02)
Reflected Ceiling Plan

300 NSF (27.9 NSM)
6 - L. Computer Lab (CRA02)

Space Requirement:
300 NSF (27.9 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Gypsum Wallboard – Vinyl Coated Fabric Wallcovering
Ceiling: Acoustical Tile
Ceiling Height: 9’-0” (2743 mm)
Noise (STC Rating): 35
Slab Depression: None
Special Construction: -
Hardware: 126
Doors: 2 @ 3'-0” x 7'-0” (914 mm x 2134 mm) wood or metal, optional view glass panel.
Windows: Desirable, see PG – 18 – 3, Topic 1, Codes and Standards.

HVAC:
Temperature/Humidity:
   Summer: 72˚F (22˚C) @60%RH
   Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Neutral (0)
Max Noise Criteria: 40

Electrical:
Lighting Levels:
   Three Level Fluorescent:
      High: 60fc
      Med: 45fc
      Low: 20fc
   Incandescent Wall-Washers on Dimmer: 0fc-5fc
Emergency Power:
   One Ceiling Light
   One Receptacle
   Nurse Call
6 - L. Computer Lab (CRA02)

Equipment Table:

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<td>COUNTER WITH STORAGE CABINETS ABOVE, WALL MOUNTED</td>
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<tr>
<td>5</td>
<td>VV</td>
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<td>CPU’S</td>
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<td>CHAIRS, INSTRUCTOR</td>
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<td>VV</td>
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<td>DESK, INSTRUCTOR</td>
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<td>NURSE CALL, EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION</td>
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<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP</td>
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TABLE 4.6-L
COMPUTER LAB (CRA02)
7 - L. PT / KT / OT Clinic (PTES1)
Reflected Ceiling Plan

1700 NSF (157.9 NSM)
7 - L. PT/KT/OT Clinic (PTES1)

Space Requirement:
1700 NSF (157.9 NSM)

Architectural:
- Floor Finish: Vinyl Composition Tile
- Base: Vinyl
- Wall Finish: Gypsum Wallboard/Paint
- Ceiling: Acoustical Tile
- Ceiling Height: 9'-6" (2895 mm)
- Noise (STC Rating): 30
- Slab Depression: None
- Special Construction: Wall-mounted pulleys require a reinforced wall with hardwood, Veneer plywood surface; see Master specifications #06200.
- Hardware: 82
- Doors: 2@3'-0" (914 mm) x 7'-0" (2133 mm) wood or metal, upper half=laminated safety glass.
- Windows: Desirable, see PG-18-3, Topic 1, Codes and Standards

HVAC:
- Temperature/Humidity:
  - Summer: 72˚F (22˚C) @60%RH
  - Winter: 82˚F (28˚C) @20%RH
- Min. Air Changes/Hour: 6 ACH
- Pressure: Neutral (0)
- Max Noise Criteria: 40

Electrical:
- Lighting Levels:
  - Gen. Illum: 30fc
- Emergency Power:
  - One Ceiling Light
  - Nurse Call
### Equipment Table:

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<td></td>
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<td>AI PLATFORM, MAT, 72&quot;W X 96&quot;L X 18&quot;H OR 48&quot;W X 84&quot;L X 18&quot;H</td>
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<tr>
<td></td>
<td></td>
<td>AI GYM, UNIVERSAL, APPROX. 84&quot; X 84&quot; X 84&quot;</td>
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<td>NOTE: THE MEDICAL CENTER MAY SUBSTITUTE A PLATFORM MAT FOR THE UNIVERSAL GYM. THIS ELIMINATES THE NEED FOR A SEPARATE LATISSIMUS BAR AND CEILING MOUNTED PULLEY.</td>
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<tr>
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<td>AI TABLE, TREATMENT, HI-LO ELECTRICAL 120 VOLT, 20 AMP, 30&quot;W X 78&quot;L X 32&quot;H</td>
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<tr>
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<td>AI FRAMES, STANDING, 32&quot;W X 42&quot;L X 60&quot;H</td>
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<td>AI BARS, PARALLEL, APPROX. 26&quot;W X 180&quot;L X 40&quot;H</td>
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<td>AI BARS, PARALLEL, APPROX. 26&quot;W X 144&quot;L X 40&quot;H</td>
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<td>AI TABLE, TILT, ELECTRICAL, 120 VOLT, 20 AMP, 28&quot;W X 76&quot;L X 32&quot;H</td>
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<td>AI PULLEY, OVERHEAD, CEILING MOUNTED</td>
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<td>AI PULLEY, WALL, TRIPLEX APPROX. 38&quot;W X 12&quot;D X 96&quot;H</td>
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<td>AI RICKSHAW, APPROX. 42&quot;W X 62&quot;L X 30&quot;H</td>
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<td>AI EXERCYCLE, ELECTRIC, 120 VOLT, 20 AMP, APPROX. 24&quot;W X 48&quot;L X 40&quot;H</td>
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<td>AI BAR, LATISSIMUS, APPROX. 32&quot;W X 50&quot;L X 96&quot;H</td>
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<td>AI CART, WEIGHT, APPROX. 26&quot;W X 36&quot;L X 54&quot;H</td>
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<td>AI WAGON, DUMBBELLS, APPROX. 25&quot;W X 46&quot;L X 41&quot;H</td>
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<td>AI MIRROR, SINGLE, PORTABLE, FULL LENGTH, APPROX. 24&quot;W X 4&quot;D X 72&quot;H</td>
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<td>AI MIRROR, POSTURE, 3-WAY, APPROX. 81&quot;W X 12&quot;D X 72&quot;H</td>
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<td>AI BATH, PARAFFIN, ARM, HAND AND FOOT, APPROX. 12&quot;W X 25&quot;L X 36&quot;H</td>
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<td>AI STAIRS, EXERCISE, APPROX. 39&quot;W X 54&quot;L X 59&quot;H</td>
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<td>AI WHEELCHAIRS, TEACHING, APPROX. 26&quot;W X 57&quot;L X 36&quot;H</td>
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**TABLE 4.7-L**  
PT/KT/OT CLINIC (PTES1)
## Equipment Table:

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<td>CABINET, STORAGE, METAL, 2 DOORS WITH LOCK, 48&quot;W X 18&quot;D X 78&quot;H</td>
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<td>ERGOMETER, UPPER EXTREMITIES, APPROX. 29&quot;W X 52&quot;L X 52&quot;H</td>
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<td>SPHYGMONANOMETER, WALL HUNG</td>
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<td>LIFT, HYDRAULIC, APPROX. 22&quot;WX 36&quot;L X 60&quot;H</td>
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<td>2</td>
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<td>MACHINE, INFRA-RED, APPROX. 15&quot; W X 30&quot;L X 66&quot;H</td>
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<td>MACHINE MEDCOSONALATOR, APPROX. 16&quot;W X 24&quot;L X 33&quot;H</td>
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<td>COLD-PAK, HYDROCOLLATOR, 15 ½&quot;W X 17 ½&quot;L (INCLUDING HANDLES) X 31&quot;H</td>
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<td>HOT, 12-PACK, HYDROCULATOR, APPROX. 16&quot;W X 48&quot;L X 31&quot;H</td>
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<td>LAVATORY, STRAIGHT, BACK, WRIST CONTROL, GOOSENECK SPOUT, 20&quot; X 18&quot; AND 3 1/2&quot; APRON (PG-18-1, MCS 15450)</td>
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<td>DISPENSER, SOAP, LIQUID, WALL MOUNTED</td>
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<td>RECEPTACLE, WASTE, STEP ON TYPE, APPROX. 12&quot; DIAMETER</td>
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<td>CLOCK, BATTERY OPERATED</td>
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<td>P-604</td>
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<td>DISPENSER, DRINKING WATER, WHEELCHAIR, MECHANICALLY COOLED, WALL HUNG, SELF-CONTAINED, APPROXIMATELY 18&quot;W X 18&quot;D X 25&quot;H (SEE ARCHITECTURE DRAWING FOR EXACT LOCATION) (PG-18-1, MCS 15450)</td>
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<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
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<td>CC</td>
<td>LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
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<td>AR</td>
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<td>CC</td>
<td>FIRE ALARM STATION, AUDIO &amp; VISUAL DEVICE WALL MOUNTED (PG-18-1, MCS 16721)</td>
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<td>CALL NURSES EMERGENCY STATION WITH CORRIDOR SIGNAL LIGHT CONNECTED TO NEAREST NURSE CONTROL STATION (PG-18-1, MCS 16761)</td>
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<td>CEILING AND LIFT TRACK</td>
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<td>FLAMMABLE MATERIALS CABINET</td>
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<td>WOOD WORKING BENCH</td>
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<td>BASE CABINET WITH ACCESSIBLE SINK AND WALL CABINETS</td>
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<td>ADJUSTABLE WORK TABLE</td>
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**TABLE 4.7-L (CONT’D)**

PT/KT/OT CLINIC (PTES1)
Page Left Blank Intentionally
8 - L. (On Unit) Resident Dining/Serving (FSCD1)
Reflected Ceiling Plan

SOFFIT (TYP)
RETURN REGISTER (TYP)
SUPPLY DIFFUSER (TYP)
FLUORESCENT LIGHT FIXTURE (TYP)
INCandescent LIGHTING, (TYP)

1665 NSF (154.7 NSM)

1/8" = 1'-0"
8 - L. (On-Unit) Resident Dining/Serving (FSCD1)

Space Requirement:
1665 NSF (154.7 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: GWB/Vinyl Fabric Walkover
Ceiling: Acoustical Tile
Ceiling Height: 9'-0" (2743 mm)
Noise (STC Rating): 35
Slab Depression: None
Special Construction: -
Hardware: 82
Doors: 2@3'-0" (914 mm) x 7'-0" (2134 mm) wood or metal, upper half=laminated safety glass.
Windows: Very desirable, see PG-18-3, Topic 1, Codes and Standards.

HVAC:
Temperature/Humidity:
  Summer: 72˚F (22˚C) @60%RH
  Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 6 ACH
Pressure: Negative (-)
Max Noise Criteria: 40

Electrical:
Lighting Levels:
  Three Level Illuminations:
    High: 30fc
    Med: 20fc
    Low: 10fc
Emergency Power:
  Two Ceiling Lights
  Night Lights
# 8 - L. (On-Unit) Resident Dining/Serving (FSCD1)

## Equipment Table:

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<th>DESCRIPTION</th>
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<td>CHAIR, DINING, APPROX. 18&quot;W X 18&quot;D</td>
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<tr>
<td>AR</td>
<td>VV</td>
<td>B</td>
<td>TABLE, REGULAR DINING, 60&quot; DIAMETER, WITH FIXED LEGS</td>
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<td>C</td>
<td>CLOCK, BATTERY OPERATED</td>
</tr>
<tr>
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<td>CC</td>
<td>D</td>
<td>SPEAKER, WITH CHANNEL SELECTOR AND VOLUME CONTROL, HOSPITAL RADIO SYSTEM (PG-18-1, MCS 16771)</td>
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<td>ICE AND WATER STATION WITH AUTOMATIC ICE MAKER AND DISPENSER, FLOOR MOUNTED, 227 KG (500 LB.), PER DAY, 45 KG (100 LB.), BIN, 914 mm X 711 mm X 2134 mm (36&quot; X 28&quot; X 84&quot;)</td>
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<td>DISPENSER, PAPER CUP, RECESSED TYPE, TWIN STACK, 177 ML (6 OUNCE) CUPS, WITH DISPOSAL COMBINATION UNITS, LOCATE ADJACENT TO WATER STATION</td>
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<td>DISPENSER, GLASS OR SHERBERT DISH, MOBILE, 787 mm X 584 mm X 914 mm (31&quot; X 23&quot; X 36&quot;)</td>
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<td>DISPENSER, BEVERAGE COLD</td>
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<td>DISPENSER, ICE TEA, PORTABLE (TO BE PLACED ON K-9110)</td>
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<tr>
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<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP (PG-18-1, MCS 16140)</td>
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<td>LIGHT, FLUORESCENT, GENERAL LIGHTING (PG-18-1, MCS 16510)</td>
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**TABLE 4.8-L (ON-UNIT) RESIDENT DINING/SERVING (FSCD1)**
9 - L. Resident Storage-Resident Belongings (SRPB1)

Floor Plan

180 NSF (16.7 NSM)
9 - L. Resident Storage-Resident Belongings (SRPB1)
Reflected Ceiling Plan

180 NSF (16.7 NSM)
9 - L. Resident Storage - Resident Belongings (SRPB1)

Space Requirement:
180 NSF (16.8 NSM)

Architectural:
Floor Finish: Vinyl Composition Tile
Base: Vinyl
Wall Finish: Gypsum Wallboard/Paint
Ceiling: Gypsum Wallboard
Ceiling Height: 8'-0" (2438 mm)
Noise (STC Rating): 30
Slab Depression: None
Special Construction: -
Hardware: 14
Doors: 4'-0" (1219 mm) x 7'-0" (2134 mm) wood or metal, optional glass view panel.
Windows: None Required

HVAC:
Temperature/Humidity:
   Summer: 72˚F (22˚C) @60%RH
   Winter: 82˚F (28˚C) @20%RH
Min. Air Changes/Hour: 4 ACH
Pressure: Negative (-)
Max Noise Criteria: 40

NOTES:
1. Room temperature control is optional.

Electrical:
Lighting Levels:
   Gen. Illum: 20fc
Emergency Power: -
9 - L. Resident Storage - Resident Belongings (SRPB1)

Equipment Table:

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>QUANTITY</th>
<th>AI</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>AR</td>
<td>CC</td>
<td></td>
<td>RECEPTACLE, ELECTRICAL, DUPLEX, 120 VOLT, 20 AMP</td>
</tr>
<tr>
<td>AR</td>
<td>CC</td>
<td></td>
<td>BASE CABINETS WITH DOORS, ALONG ALL THREE WALLS</td>
</tr>
<tr>
<td>AR</td>
<td>CC</td>
<td></td>
<td>WALL CABINETS/STORAGE SHELVING, WALL MOUNTED ABOVE BASE CABINETS</td>
</tr>
<tr>
<td>AR</td>
<td>CC</td>
<td></td>
<td>LIGHT, FLOURESCENT, GENERAL LIGHTING, PG – 18 – 1, MSC 16510</td>
</tr>
</tbody>
</table>

TABLE 4.9-L
RESIDENT STORAGE - RESIDENT BELONGINGS (SRPB1)
SPINAL CORD INJURY/DISORDERS CENTER

Appendix
A. Study Site Facilities

This section provides examples of facilities studied during the VA Spinal Cord Injury Center Design Guide development. The purpose of the site summary information on the site plans is to provide an at-a-glance tool when planning a Spinal Cord Injury Center facility. The objective is to aid future planners, designers and administrators of VA Spinal Cord Injury Center facilities in providing top quality healthcare environments that are well designed and constructed to provide state of the art services to VA clients. The floor plans are color coded according to important spatial relationships as well as facility functions.
1. VA Tampa SCI/D Center -
Tampa, FL

Site Data
Acreage Approx.: 2.26 Acres
Stories: 1
Geographic Location: South-East U.S.
No. of Beds: 70
Date of Completion: 1972
Square Footage Approx.: 103,300 sq. ft. (9596.88 sq. meters)
2. **VA SCI/D Center - Hines, IL**

Site Data
- Acreage Approx.: 0.56 Acres
- Stories: 2
- Geographic Location: Mid Atlantic U.S.
- No. of Beds: 60
- Date of Completion: 2005
- Square Footage Approx.: 58000 sq. ft. (5388.38 sq. meters)
2. VA SCI/D Center - Hines, IL

First Floor Plan

1” = 60'-0"

LEGEND

1  PATIENT- CARE UNITS
2  BUILDING SERVICE
3  OUTPATIENT CLINIC
4  ADMINISTRATION
5  SOCIAL ACTIVITY
6  UNIT SUPPORT
7  REHABILITATION / THERAPY AREAS
3. VA SCI/D Center - Long Beach, CA

Site Data
Acreage Approx.: 2 Acres
Stories: 2 + Basement
Geographic Location: Western, US
No. of Beds: 120
Date of Completion: N/A
Square Footage Approx.: 236,000 sq. ft. (21925 sq meters)
3. **VA SCI/D Center - Long Beach, CA**

![Basement Floor Plan A & D](image)

**Legend**
- **Circulation**
- 1 **Patient-Care Units**
- 2 **Building Service**
- 3 **Outpatient Clinic**
- 4 **Administration**
- 5 **Social Activity**
- 6 **Unit Support**
- 7 **Rehabilitation / Therapy Areas**
3. VA SCI/D Center - Long Beach, CA

Basement Floor Plan B

1" = 60'-0"

LEGEND

- CIRCULATION
- PATIENT- CARE UNITS
- BUILDING SERVICE
- OUTPATIENT CLINIC
- ADMINISTRATION
- SOCIAL ACTIVITY
- UNIT SUPPORT
- REHABILITATION / THERAPY AREAS
3. VA SCI/D Center - Long Beach, CA

First Floor Plan

LEGEND
- CIRCULATION
- PATIENT- CARE UNITS
- BUILDING SERVICE
- OUTPATIENT CLINIC
- ADMINISTRATION
- SOCIAL ACTIVITY
- UNIT SUPPORT
- REHABILITATION / THERAPY AREAS
3. VA SCI/D Center - Long Beach, CA

Second Floor Plan

LEGEND

CIRCULATION

1. PATIENT-CARE UNITS
2. BUILDING SERVICE
3. OUTPATIENT CLINIC

4. ADMINISTRATION
5. SOCIAL ACTIVITY
6. UNIT SUPPORT
7. REHABILITATION / THERAPY AREAS
B. Space Allocation Matrices

This section provides the standard required rooms and sizes for each VA SCI/D type of center (i.e. Acute Care; Free-Standing Outpatient Clinics and Long Term Care).

The purpose of space allocation matrix tables is to provide the basic requirements on the required spaces for each center, the square footage and specific information pertaining to specific centers when planning SCI/D facilities. The objective is to aid future planners, designers and administrators of VA Spinal Cord Injury Center facilities in providing top quality healthcare environments that are well designed and constructed to provide state of the art services to VA clients.
### 1. VA SCI/DC Acute Care/Rehabilitation

#### Space Allocation Matrix

<table>
<thead>
<tr>
<th>VA SCI Center Suite Room/Space Name</th>
<th>Guideline Space Allocation</th>
<th>VA Space Planning Criteria Chapter 104</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-bed Rooms (16 Beds = 16 Rms)</td>
<td>210</td>
<td>** &amp; Note 1</td>
</tr>
<tr>
<td>Isolation/Ante room</td>
<td>210/75</td>
<td>**</td>
</tr>
<tr>
<td>Two-bed Rooms (14 Beds = 7 Rms)</td>
<td>450</td>
<td>** &amp; Note 1</td>
</tr>
<tr>
<td>Patient (Litter) Bathroom (16 + 14 = 30)</td>
<td>120</td>
<td>**</td>
</tr>
<tr>
<td>Tubroom</td>
<td>200</td>
<td>**</td>
</tr>
<tr>
<td>Nurse Station</td>
<td></td>
<td>**</td>
</tr>
<tr>
<td>Ward Clerk</td>
<td>300</td>
<td>**</td>
</tr>
<tr>
<td>Charting</td>
<td>150</td>
<td>** 240 nsf at Intensive Care Units</td>
</tr>
<tr>
<td>Medication Room</td>
<td>120</td>
<td>**</td>
</tr>
<tr>
<td>Staff Toilet</td>
<td>60</td>
<td>** 60 nsf</td>
</tr>
<tr>
<td>Staff Lounge</td>
<td>80</td>
<td>**</td>
</tr>
<tr>
<td>Staff Locker Room</td>
<td>80</td>
<td>**</td>
</tr>
<tr>
<td>Nurse Supervisor Office</td>
<td>130</td>
<td>**</td>
</tr>
<tr>
<td>Nourishment Kitchen</td>
<td>100</td>
<td>**</td>
</tr>
<tr>
<td>Exam/Treatment Room</td>
<td>120</td>
<td>** 180 nsf</td>
</tr>
<tr>
<td>On-Call Bedroom</td>
<td>80</td>
<td>**</td>
</tr>
<tr>
<td>On-Call Toilet/Shower</td>
<td></td>
<td>**</td>
</tr>
<tr>
<td>Clean Utility Room</td>
<td>150</td>
<td>** 5.0 nsf/bed (Max. 180 nsf)</td>
</tr>
<tr>
<td>Soiled Utility Room</td>
<td>120</td>
<td>** 4 nsf/bed (Max. 144 nsf)</td>
</tr>
<tr>
<td>Clean Linen Storage</td>
<td>80</td>
<td>**</td>
</tr>
<tr>
<td>Soiled Linen Storage</td>
<td>60</td>
<td>**</td>
</tr>
<tr>
<td>Clean Linen Holding Room</td>
<td>42</td>
<td>**</td>
</tr>
<tr>
<td>Litter Storage</td>
<td>300</td>
<td>**</td>
</tr>
<tr>
<td>Transfer Equipment Storage</td>
<td>210</td>
<td>** 7 nsf/bed (Max. 252 nsf)</td>
</tr>
<tr>
<td>Medical Equipment Storage</td>
<td>180</td>
<td>**</td>
</tr>
<tr>
<td>Multipurpose Room</td>
<td>800</td>
<td>** Max. 1600 nsf</td>
</tr>
<tr>
<td>Multipurpose/Activities Storage</td>
<td>100</td>
<td>**</td>
</tr>
<tr>
<td>Therapy Equipment Storage (For 30-60 beds)</td>
<td>150</td>
<td>** For over 60 beds, add 100 nsf</td>
</tr>
<tr>
<td>Housekeeping Aide's Closet</td>
<td>40</td>
<td>**</td>
</tr>
<tr>
<td>Patient Storage</td>
<td>120</td>
<td>** 4 nsf/bed = 120 nsf; Max. 180 nsf</td>
</tr>
</tbody>
</table>

**TABLE B.1**

VA SCI/DC ACUTE CARE/REHABILITATION SPACE ALLOCATION MATRIX
1. **VA SCI/DC Acute Care/Rehabilitation Space Allocation Matrix**

<table>
<thead>
<tr>
<th>VA SCI Center Suite Room/Space Name</th>
<th>Guideline Space Allocation</th>
<th>VA Space Planning Criteria Chapter 104</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conference/Classroom</td>
<td>300 **</td>
<td>***</td>
</tr>
<tr>
<td>Quiet Room</td>
<td>150 ***</td>
<td></td>
</tr>
<tr>
<td>Day Room/Lounge</td>
<td>400 ***</td>
<td></td>
</tr>
<tr>
<td>Kitchenette</td>
<td>70 nsf</td>
<td></td>
</tr>
<tr>
<td>Resident Dining/Serving</td>
<td>1,600 Max. 2500 nsf.</td>
<td></td>
</tr>
<tr>
<td>Horticulture Therapy</td>
<td>150 ***</td>
<td></td>
</tr>
<tr>
<td>Physical Therapy/ Kinesiology Therapy</td>
<td>3,000 ***</td>
<td></td>
</tr>
<tr>
<td>Therapist Cubicle</td>
<td>80 nsf</td>
<td></td>
</tr>
<tr>
<td>Patient Toilet</td>
<td>60 nsf</td>
<td></td>
</tr>
<tr>
<td>Patient Laundry</td>
<td>100 ***</td>
<td></td>
</tr>
<tr>
<td>SCI Center Lobby*</td>
<td>800 *</td>
<td></td>
</tr>
<tr>
<td>Visitor Lounge</td>
<td>200 ***</td>
<td></td>
</tr>
<tr>
<td>Consultation Room*</td>
<td>NIC *</td>
<td></td>
</tr>
<tr>
<td>Visitors’ Toilet (Men or Women)</td>
<td>60 60 nsf</td>
<td></td>
</tr>
<tr>
<td>Internet Café</td>
<td>240</td>
<td></td>
</tr>
</tbody>
</table>

**G. U. Clinic:**
- Urodynamic: Cystoscopy 500 ***
- Urodynamic: Storage & Instrument Cleaning Rm 400 ***
- Urodynamic: Nurse Station 150 ***
- Urologist Office** 130 ***
- Urodynamic: Exam/Treatment Rm** 180 ***
- Urodynamic: Recovery Rm** 300 ***
- Urodynamic: Dressing Room/Cubicle 100 nsf
- Urodynamic: Patient Shower 80
- Radiography Film Developing
  - Darkroom 40 ***
  - Lightroom 60 ***

**Home Environment Clinic:**
- Living/Dining Room 240 ***
- Kitchen 167 ***
- Bedroom 169 ***
- Bathroom 84 ***

**Total 660 nsf**

---

**TABLE B.1 (CONT’D)**

**VA SCI/DC ACUTE CARE/REHABILITATION SPACE ALLOCATION MATRIX**
## 1. VA SCI/DC Acute Care/Rehabilitation Space Allocation Matrix

### Spinal Cord Injury/Disorder Center (Acute Care/Rehab) - 30 Beds

<table>
<thead>
<tr>
<th>VA SCI Center Suite Room/Space Name</th>
<th>Guideline Space Allocation</th>
<th>VA Space Planning Criteria Chapter 104</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outpatient Clinic:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nurse Station</td>
<td>150</td>
<td>***</td>
</tr>
<tr>
<td>Entrance/Waiting Area</td>
<td>150</td>
<td>Note 2</td>
</tr>
<tr>
<td>Patient Toilets/Staff Toilet</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>Staff Shower Room</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>Clean Utility Room</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td>Home Care Interview Rm.</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td>SCIC Chief of Service Office</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>Physician’s Office**</td>
<td>130</td>
<td>***</td>
</tr>
<tr>
<td>Examination/Treatment Rm.**</td>
<td>180</td>
<td>***</td>
</tr>
<tr>
<td>Psychologist’s Office**</td>
<td>130</td>
<td></td>
</tr>
<tr>
<td>Social Worker’s Office**</td>
<td>130</td>
<td></td>
</tr>
<tr>
<td>Case Manager’s Office**</td>
<td>NIC</td>
<td></td>
</tr>
<tr>
<td>Pharmacy</td>
<td>160</td>
<td></td>
</tr>
<tr>
<td>Hydrotherapy</td>
<td>360</td>
<td>Note 3</td>
</tr>
<tr>
<td>Kinesiotherapy Treatment Clinic (*For 60-100 beds)</td>
<td>1080*</td>
<td>Note 3; (Over 100 Beds - 1250 nsf)</td>
</tr>
<tr>
<td>Occupational Therapy</td>
<td>800</td>
<td>Note 3</td>
</tr>
<tr>
<td>Activities of Daily Living:</td>
<td>200</td>
<td>Note 3</td>
</tr>
<tr>
<td>Therapeutic Pool:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pool</td>
<td>2,000</td>
<td>Note 3</td>
</tr>
<tr>
<td>Dressing/Shower/Toilet - Male</td>
<td>300</td>
<td>Note 3</td>
</tr>
<tr>
<td>Dressing/Shower/Toilet - Female</td>
<td>230</td>
<td>Note 3</td>
</tr>
<tr>
<td>Suits/Towel Storage</td>
<td>150</td>
<td>Note 3</td>
</tr>
</tbody>
</table>

| Net Space Total Circulation (15%)*       | 0.15                      |                                        |

**VA SCI Center Guidelines Total Net Square Feet**

*Estimated net square footage. This space is not listed in the SCI/D Center Guidelines and/or VA Handbook.

**Specific SCI Center programming may require additional number of rooms, based on projected annual outpatient visits.

***VA SCI/D Guidelines and VA Space Planning Criteria Chapter 104 are in agreement on net-square-footage-per-room

### Notes:

1. The proportion of single to double bedrooms is based on recent SCI/D Center construction programs.
2. The VA Space Planning Criteria, Chapter 104 contains a formula for determining the size of the Waiting Area, based on projected annual visits and combined functions. Verify Center's requirements before determining program size.
3. Refer to VA Space Planning Criteria, Chapter 270 for net square footage guidelines and formulas. Space requirements will vary, depending on specific SCI Center programmatic demands.

**TABLE B.1 (CONT'D)**

VA SCI/DC ACUTE CARE/REHABILITATION SPACE ALLOCATION MATRIX
### Spinal Cord Injury/Disorder Center (Long Term Care) - 30 Beds

<table>
<thead>
<tr>
<th>VA SCI Center Suite Room/Space Name</th>
<th>Guideline Space Allocation</th>
<th>VA Space Planning Criteria Chapter 104</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-bed Rooms (16 Beds = 16 Rms)</td>
<td>320</td>
<td>*** &amp; Note 1</td>
</tr>
<tr>
<td>Isolation/ante room</td>
<td>320/75</td>
<td>***</td>
</tr>
<tr>
<td>Two-bed Rooms (14 Beds = 7 Rms)</td>
<td>480</td>
<td>*** &amp; Note 1</td>
</tr>
<tr>
<td>Patient (Litter) Bathroom (16 + 14 = 30)</td>
<td>120</td>
<td>***</td>
</tr>
<tr>
<td>Nurse Station</td>
<td>300</td>
<td>***</td>
</tr>
<tr>
<td>Ward Clerk</td>
<td>80</td>
<td>***</td>
</tr>
<tr>
<td>Charting</td>
<td>150</td>
<td>240 nsf at Intensive Care Units</td>
</tr>
<tr>
<td>Medication Room</td>
<td>120</td>
<td>***</td>
</tr>
<tr>
<td>Staff Toilet</td>
<td>60</td>
<td>50 nsf</td>
</tr>
<tr>
<td>Staff Lounge*</td>
<td>80</td>
<td>*</td>
</tr>
<tr>
<td>Staff Lockers*</td>
<td>80</td>
<td>*</td>
</tr>
<tr>
<td>Nurse Supervisor Office</td>
<td>130</td>
<td>***</td>
</tr>
<tr>
<td>Nourishment Kitchen</td>
<td>100</td>
<td>***</td>
</tr>
<tr>
<td>Exam/Treatment Room</td>
<td>180</td>
<td>180 nsf</td>
</tr>
<tr>
<td>On-Call Bedroom</td>
<td>120</td>
<td>***</td>
</tr>
<tr>
<td>On-Call Toilet/Shower</td>
<td>80</td>
<td>***</td>
</tr>
<tr>
<td>Clean Utility Room</td>
<td>150</td>
<td>5.0 nsf/bed (Max. 180 nsf)</td>
</tr>
<tr>
<td>Soiled Utility Room</td>
<td>120</td>
<td>4 nsf/bed (Max. 144 nsf)</td>
</tr>
<tr>
<td>Clean Linen Storage</td>
<td>80</td>
<td>***</td>
</tr>
<tr>
<td>Soiled Linen Storage</td>
<td>60</td>
<td>***</td>
</tr>
<tr>
<td>Clean Linen Holding Room</td>
<td>42</td>
<td>***</td>
</tr>
<tr>
<td>Litter Storage</td>
<td>300</td>
<td>***</td>
</tr>
<tr>
<td>Transfer Equipment Storage</td>
<td>210</td>
<td>7 nsf/bed (Max. 252 nsf)</td>
</tr>
<tr>
<td>Medical Equipment Storage</td>
<td>180</td>
<td>***</td>
</tr>
<tr>
<td>Stretcher/Wheelchair Alcove</td>
<td>40</td>
<td>***</td>
</tr>
<tr>
<td>Building Management Storage*</td>
<td>100</td>
<td>***</td>
</tr>
<tr>
<td>Combined PT/OT/KT Occupational Therapy</td>
<td>800</td>
<td></td>
</tr>
<tr>
<td>Therapy Equipment Storage (For 30-60 beds)</td>
<td>150</td>
<td>For over 60 beds, add 100 nsf</td>
</tr>
<tr>
<td>Housekeeping Aide's Closet</td>
<td>40</td>
<td>***</td>
</tr>
<tr>
<td>Patient Clothing/Luggage Storage</td>
<td>180</td>
<td>6 nsf/bed = 180 nsf (Max. 216 nsf)</td>
</tr>
</tbody>
</table>

**TABLE B.2**
VA SCI/DC Long Term Care Space Allocation Matrix

*Source: Paralyzed Veterans of America (PVA)*

**Appendix B** APP - **15**
2. **VA SCI/DC Long Term Care**
   **Space Allocation Matrix**

### Spinal Cord Injury/Disorder Center (Long Term Care) - 30 Beds

<table>
<thead>
<tr>
<th>VA SCI Center Suite Room/Space Name</th>
<th>Guideline Space Allocation</th>
<th>VA Space Planning Criteria Chapter 104</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conference/Classroom</td>
<td>300</td>
<td>***</td>
</tr>
<tr>
<td>Quiet Room</td>
<td>150</td>
<td>***</td>
</tr>
<tr>
<td>Day Room/Lounge</td>
<td>400</td>
<td>***</td>
</tr>
<tr>
<td>Kitchenette*</td>
<td></td>
<td>70 nsf</td>
</tr>
<tr>
<td>(On Unit) Resident Dining/Serving</td>
<td>1,665</td>
<td>Min. 1600 nsf, Max. 2500 nsf.</td>
</tr>
<tr>
<td>Horticulture Therapy</td>
<td>150</td>
<td>***</td>
</tr>
<tr>
<td>Therapist Cubicle</td>
<td></td>
<td>80 nsf</td>
</tr>
<tr>
<td>Recreational Therapy Room Toilet</td>
<td></td>
<td>60 nsf</td>
</tr>
<tr>
<td>Patient Laundry Room</td>
<td>100</td>
<td>***</td>
</tr>
<tr>
<td>SCI Center Lobby*</td>
<td>800</td>
<td>*</td>
</tr>
<tr>
<td>Visitors' Lounge</td>
<td>200</td>
<td>***</td>
</tr>
<tr>
<td>Consultation Room*</td>
<td>NIC</td>
<td>*</td>
</tr>
<tr>
<td>Visitors' Toilet (Men or Women)</td>
<td>60</td>
<td>60 nsf</td>
</tr>
<tr>
<td>Computer Room*</td>
<td>300</td>
<td></td>
</tr>
</tbody>
</table>

**Therapeutic Pool:**
- Pool                                  | 2,000                     | Note 3                                 |
- Dressing/Shower/Toilet - Male         | 300                       | Note 3                                 |
- Dressing/Shower/Toilet - Female       | 230                       | Note 3                                 |
- Suits/Towel Storage                   | 150                       | Note 3                                 |

| **Net Space Total Circulation (15%)** | 0.15                      |

**VA SCI Center Guidelines Total Net Square Feet**

* Estimated net square footage. This space is not listed in the SCIC/D Center Guidelines and/or VA Handbook.

** Specific SCI Center programming may require additional number of rooms, based on projected annual outpatient visits.

*** VA SCIC Guidelines and VA Space Planning Criteria Chapter 104 are in agreement on net-square-footage-per-room requirement.

**Notes:**
1. The proportion of single to double bedrooms is based on recent SCI Center construction programs.
   - No specific ratios of single/doubles is given in the VA SCIC Guidelines. The information given in the VA Handbook 7610 may be outdated (it includes four-bed units in the recommended mix of room types).

**TABLE B.2 (CONT'D)**
**VA SCI/DC LONG TERM CARE**
**SPACE ALLOCATION MATRIX**
3. **VA SCI/D Component of VA Ambulatory Care Outpatient Clinic**

**Space Allocation Matrix**

<table>
<thead>
<tr>
<th>Spinal Cord Injury/Disorders Center (Component of VA Ambulatory Care Outpatient Clinic)</th>
<th>Guideline Space Allocation</th>
<th>VA Space Planning Criteria Chapter 104</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Outpatient Clinic:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nurse Station</td>
<td>150</td>
<td>***</td>
</tr>
<tr>
<td>Entrance/Waiting Area</td>
<td>200</td>
<td>Note 1</td>
</tr>
<tr>
<td>Patient Toilets</td>
<td>60</td>
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</tr>
<tr>
<td>Shower Room</td>
<td>80</td>
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</tr>
<tr>
<td>Clean Utility</td>
<td>120</td>
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</tr>
<tr>
<td>Home Care Interview Rm.</td>
<td>120</td>
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</tr>
<tr>
<td>SCIC Chief of Service Office</td>
<td>150</td>
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</tr>
<tr>
<td>Physician's Office**</td>
<td>130</td>
<td>***</td>
</tr>
<tr>
<td>Examination/Treatment Rm.**</td>
<td>180</td>
<td>***</td>
</tr>
<tr>
<td>Psychologist's Office**</td>
<td>130</td>
<td></td>
</tr>
<tr>
<td>Social Worker's Office**</td>
<td>130</td>
<td></td>
</tr>
<tr>
<td>Case Manager's Office**</td>
<td>NIC</td>
<td></td>
</tr>
<tr>
<td>Pharmacy</td>
<td>160</td>
<td></td>
</tr>
</tbody>
</table>

|  | Net Space Total Circulation (15%)* | 0.15 |
| VA SCI Center Guidelines Total Net Square Feet |  |

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* Estimated net square footage. This space is not listed in the SCI/D Center Guidelines and/or VA Handbook.

** Specific SCI Center programming may require additional number of rooms, based on projected annual outpatient visits.

*** VA SCI/D Guidelines and Space Planning Criteria Chapter 104 are in agreement on net-square-footage-per-room requirement.

**Notes:**

1. The Space Planning Criteria Chapter 104 contains a formula for determining the size of the Waiting Area, based on projected annual visits and combined functions. Verify Center's requirements before determining program size.

2. When SCI/D services and treatment is included in the mission of a VA Ambulatory Care Outpatient Clinic, the facility must be designed to accommodate the special needs of SCI/D patients. Increased accessibility is of primary importance when treating SCI/D patients. This includes providing 8'-0" wide corridors in the areas accessed by SCI/D patients who, in addition to using standard and larger electric wheelchairs, may access the facility using gurneys. SCI/D Exam Rooms must be larger to accommodate the increased maneuverability required by SCI/D patients. Ceiling mounted patient lift systems must be provided in exam and treatment rooms.

Refer to the Chapter 104: Veterans Health Administration: Spinal Cord Injury / Disorders Center of the VA Space Planning Criteria other sections of this design guide that refer to the SCI/D Patient Clinic as guidance when planning and designing the SCI/D Component of a VA Ambulatory Care / Outpatient Clinic.

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**TABLE B.3**

VA SCI/DC FREE-STANDING OUTPATIENT CLINICS
SPACE ALLOCATION MATRIX