



Department of
Veterans Affairs

Office of Construction & Facilities Management

Appendix



SPINAL CORD
INJURY/
DISORDERS
CENTER

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

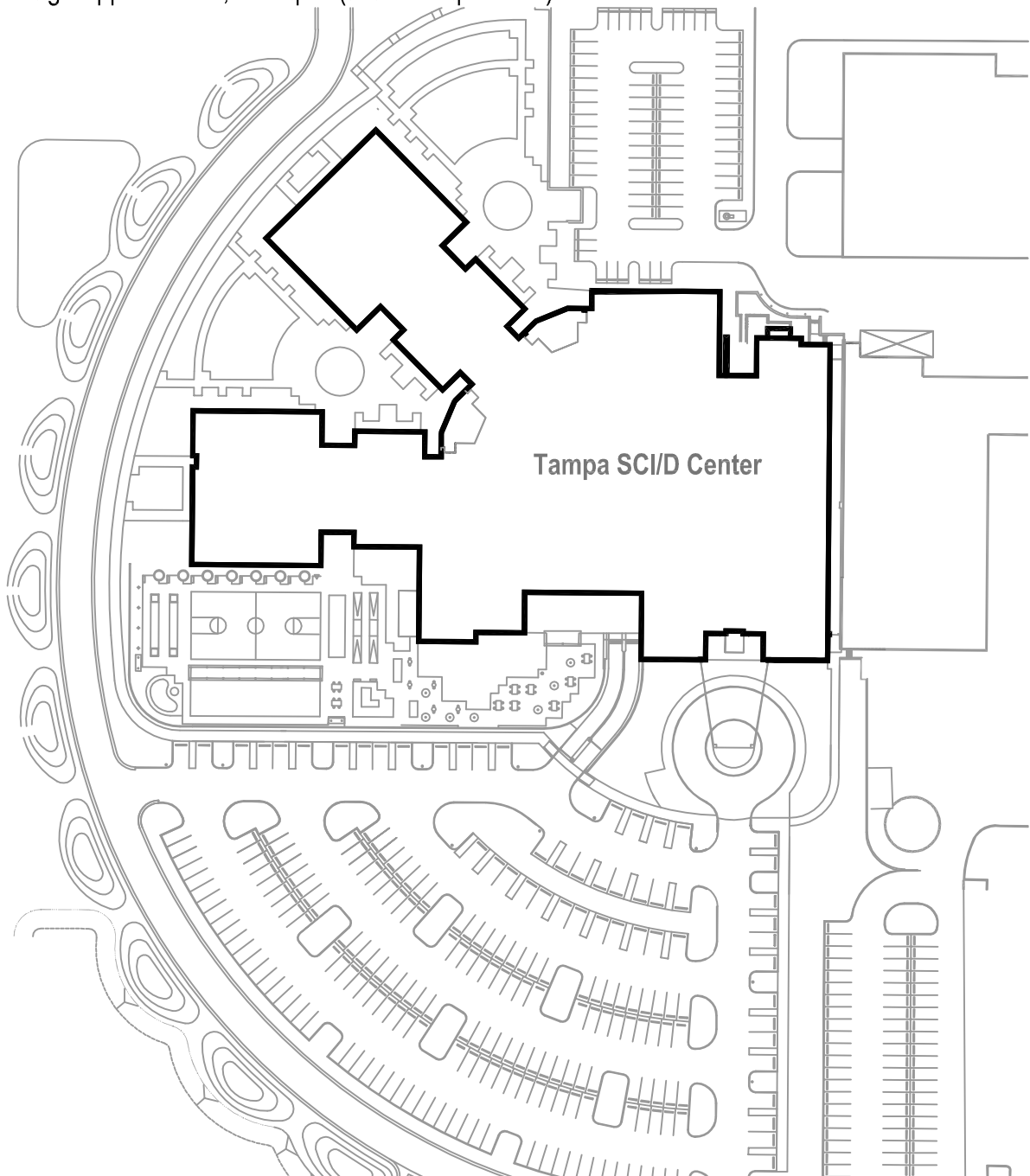
Stories: 1

Geographic Location: South-Est U.S.

No. of Beds: 70

Date of Completion: 1972

Square Footage Approx.: 103,300 sq. ft. (9596.88 sq. meters)



Site Plan
NTS

2. VA SCI/D Center - Hines, IL

Site Data

Acreage Approx.: 0.56 Acres

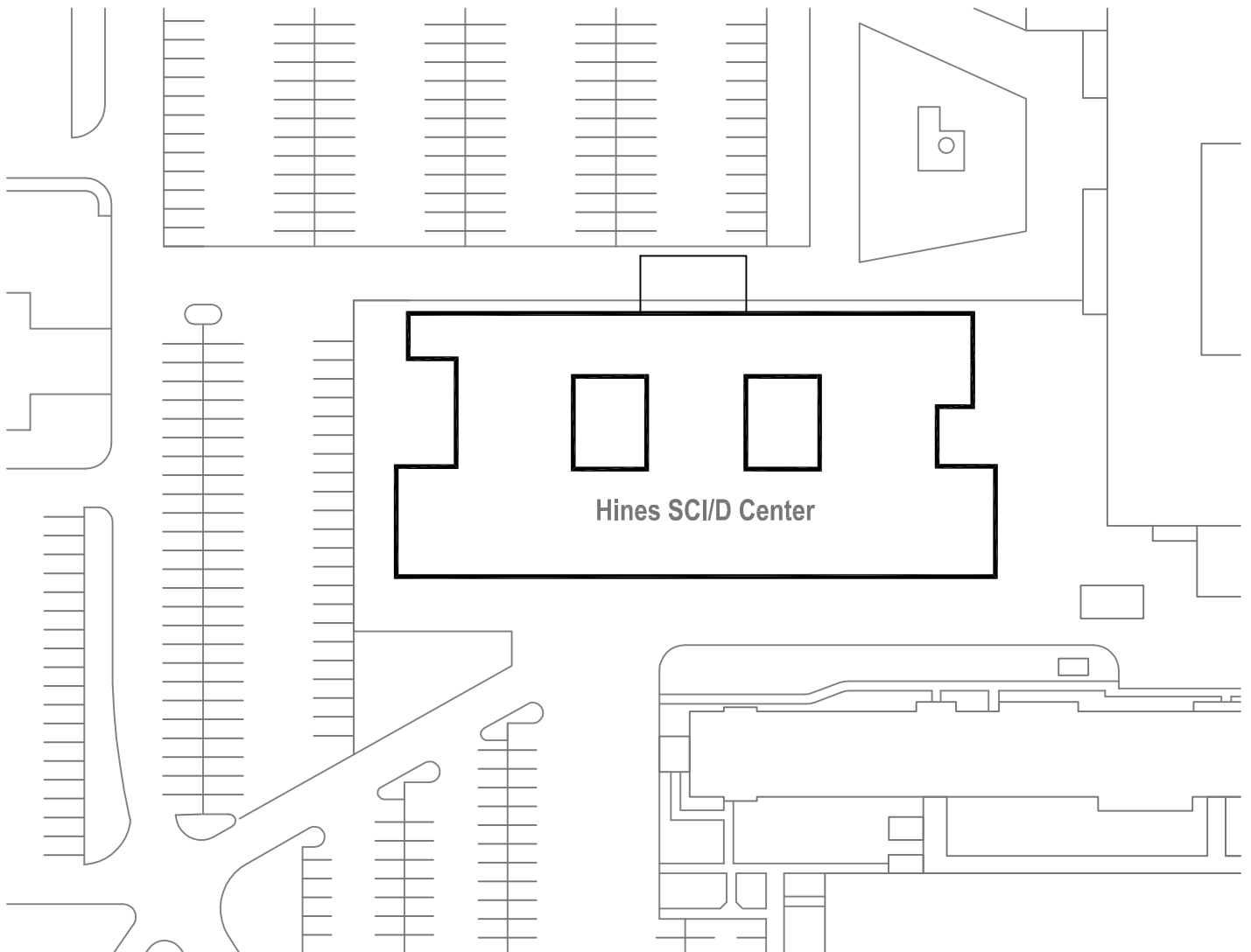
Stories: 2

Geographic Location: Mid Atlantic U.S.

No. of Beds: 60

Date of Completion: 2005

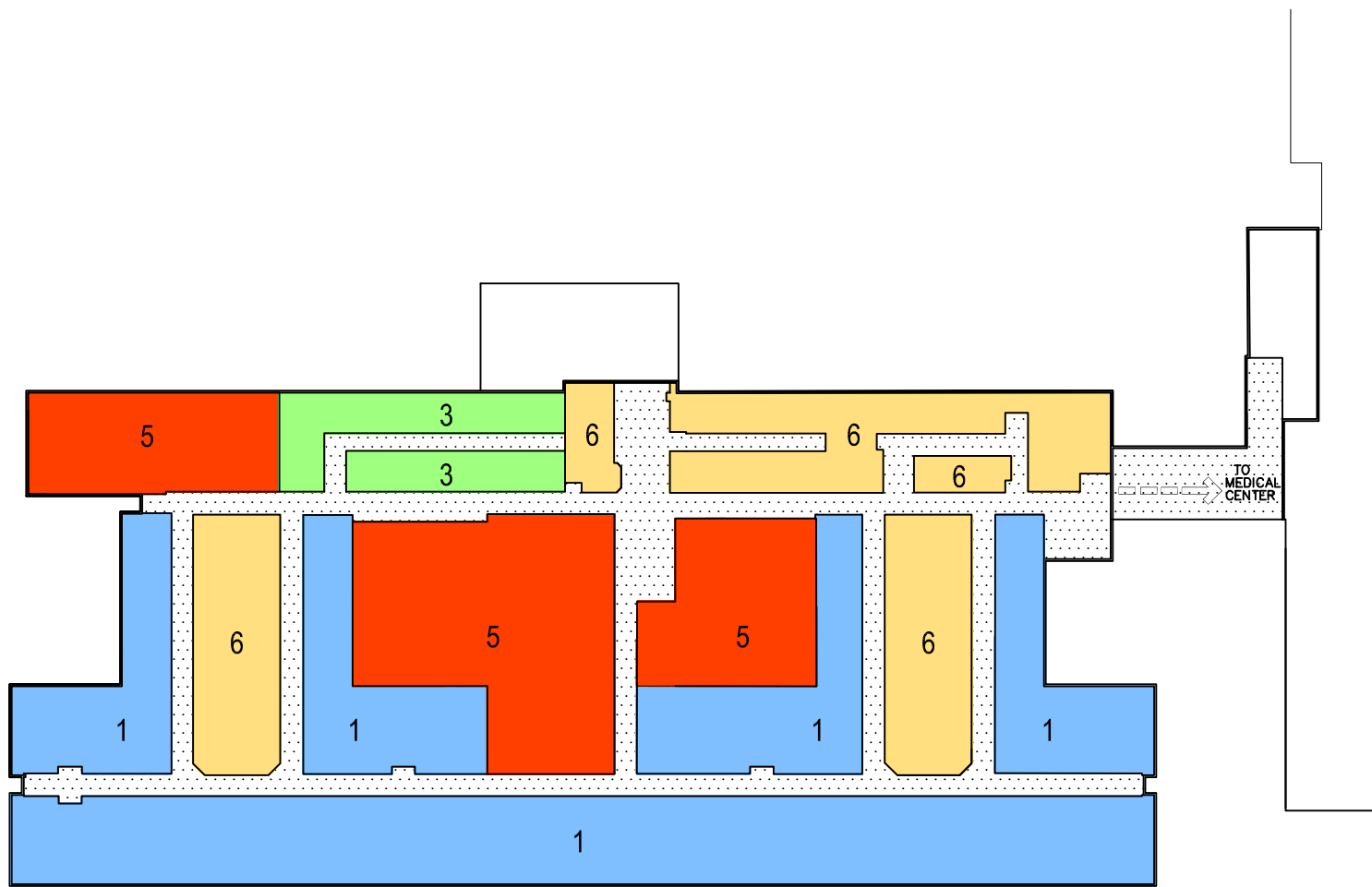
Square Footage Approx.: 58000 sq. ft. (5388.38 sq. meters)



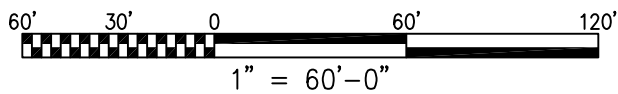
Site Plan

NTS

2. VA SCI/D Center - Hines, IL



First Floor Plan



LEGEND

- | | |
|------------------------|-----------------------------------|
| CIRCULATION | 4 ADMINISTRATION |
| 1 PATIENT- CARE UNITS | 5 SOCIAL ACTIVITY |
| 2 BUILDING SERVICE | 6 UNIT SUPPORT |
| 3 OUTPATIENT CLINIC | 7 REHABILITATION / THERAPY AREAS |

3. VA SCI/D Center - Long Beach, CA

Site Data

Acreage Approx.: 2 Acres

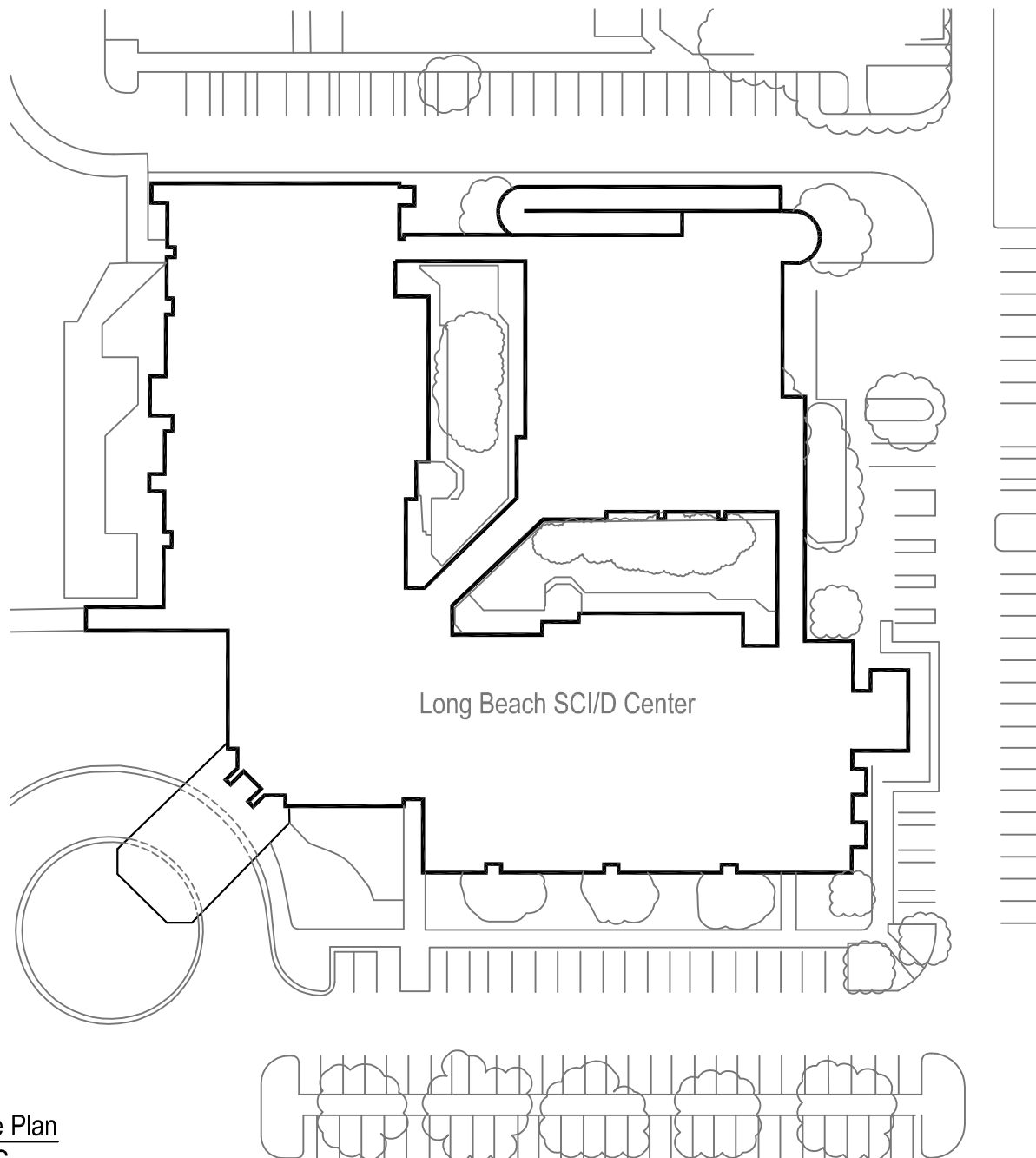
Stories: 2 + Basement

Geographic Location: Western, US

No. of Beds: 120

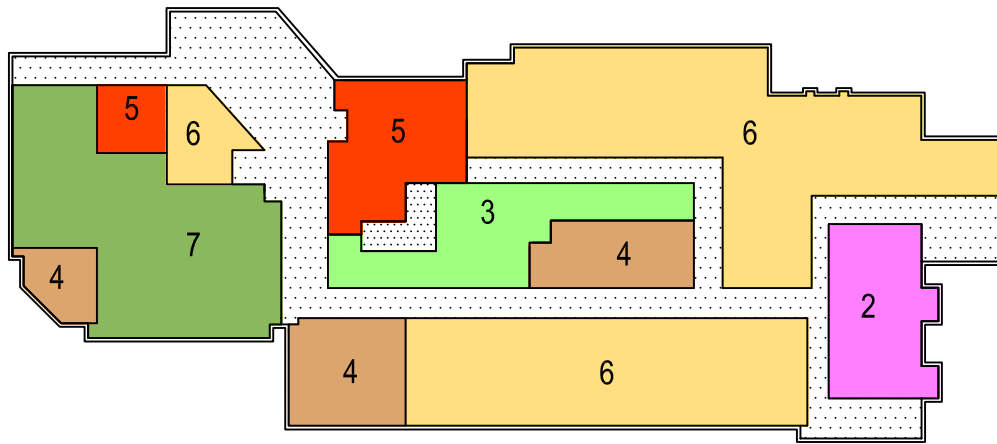
Date of Completion: N/A

Square Footage Approx.: 236,000 sq. ft. (21925 sq meters)

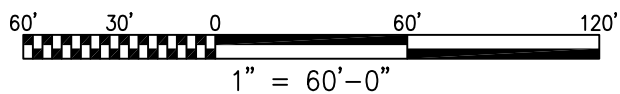








Site Plan
NTS

3. VA SCI/D Center - Long Beach, CA

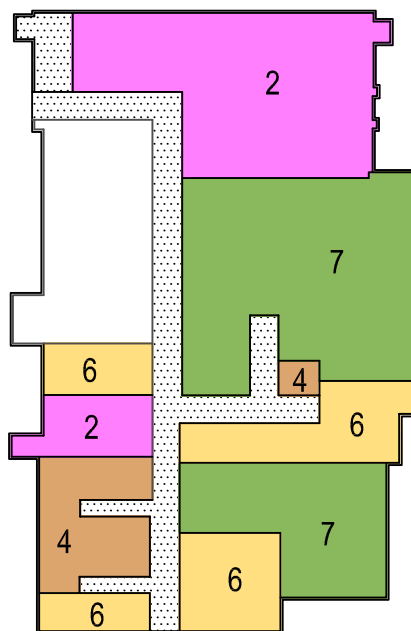


Basement Floor Plan A & D

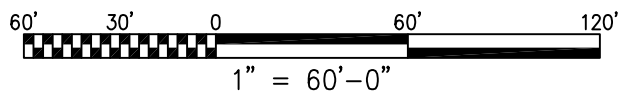










LEGEND	
	CIRCULATION
1 	PATIENT- CARE UNITS
2 	BUILDING SERVICE
3 	OUTPATIENT CLINIC
4 	ADMINISTRATION
5 	SOCIAL ACTIVITY
6 	UNIT SUPPORT
7 	REHABILITATION / THERAPY AREAS

3. VA SCI/D Center - Long Beach, CA

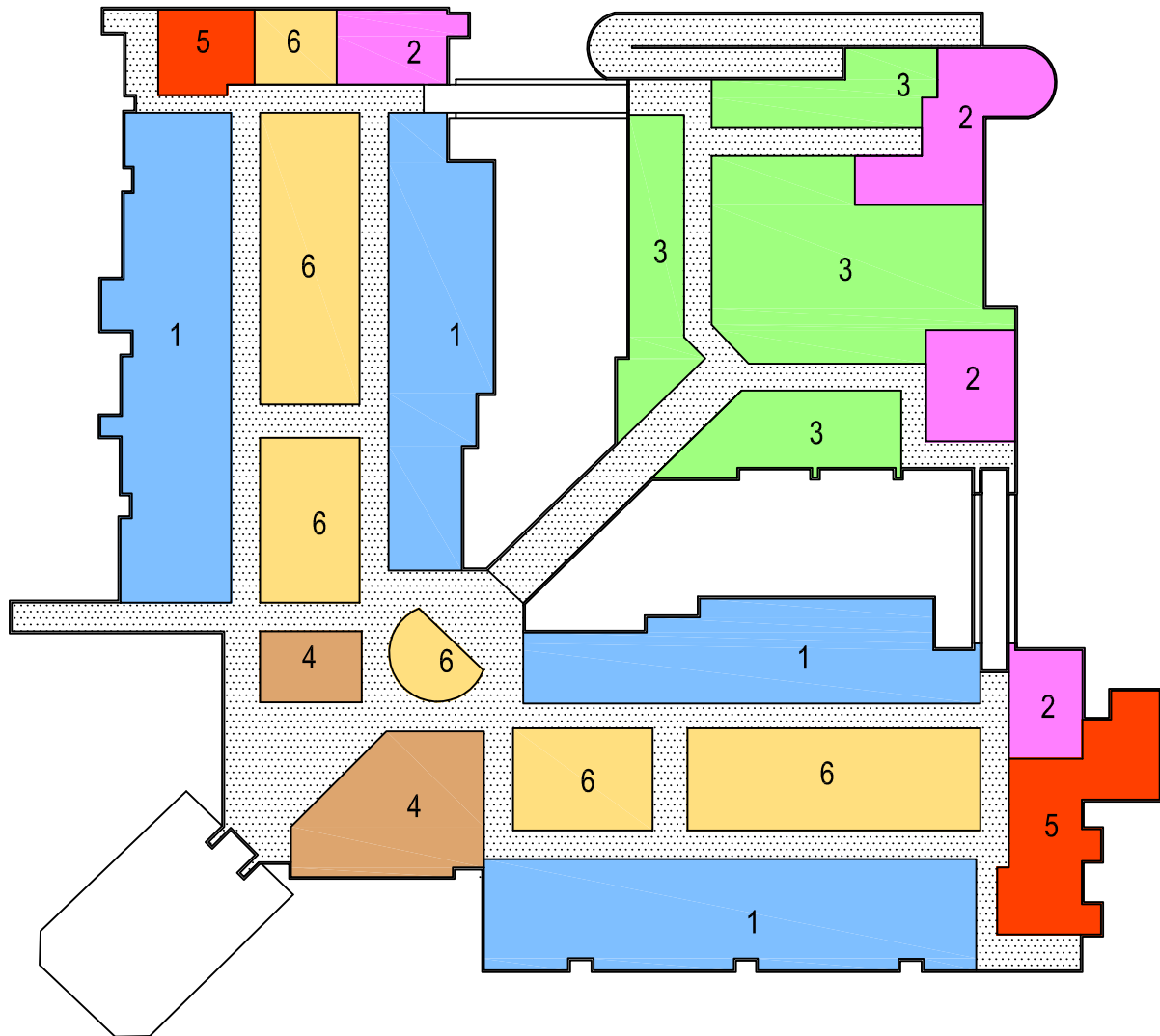


Basement Floor Plan B

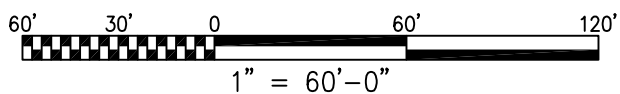


LEGEND	
	CIRCULATION
1 	PATIENT- CARE UNITS
2 	BUILDING SERVICE
3 	OUTPATIENT CLINIC
4 	ADMINISTRATION
5 	SOCIAL ACTIVITY
6 	UNIT SUPPORT
7 	REHABILITATION / THERAPY AREAS

3. VA SCI/D Center - Long Beach, CA



First Floor Plan

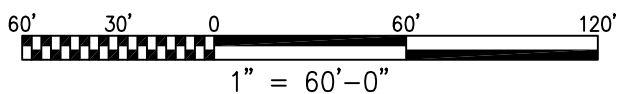


LEGEND	
	CIRCULATION
1	PATIENT- CARE UNITS
2	BUILDING SERVICE
3	OUTPATIENT CLINIC
4	ADMINISTRATION
5	SOCIAL ACTIVITY
6	UNIT SUPPORT
7	REHABILITATION / THERAPY AREAS

3. VA SCI/D Center - Long Beach, CA



Second Floor Plan



LEGEND					
	CIRCULATION	4		ADMINISTRATION	
1		PATIENT- CARE UNITS	5		SOCIAL ACTIVITY
2		BUILDING SERVICE	6		UNIT SUPPORT
3		OUTPATIENT CLINIC	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**

SCI/DC Acute Care/Rehab.
Space Allocation Matrix-1 (AC/R 1 of 3)
Source: Paralyzed Veterans of America (PVA)

Spinal Cord Injury/Disorder Center (Acute Care/Rehab) - 30 Beds		
VA SCI Center Suite Room/Space Name	Guideline Space Allocation	VA Space Planning Criteria Chapter 104
One-bed Rooms (16 Beds = 16 Rms)	210	*** & Note 1
Isolation/Ante room	210/ 75	***
Two-bed Rooms (14 Beds = 7 Rms)	450	*** & Note 1
Patient (Litter) Bathroom (16 + 14 = 30)	120	***
Tubroom	200	***
<hr/>		
Nurse Station	300	***
Ward Clerk	80	***
Charting	150	240 nsf at Intensive Care Units
Medication Room	120	***
Staff Toilet	60	60 nsf
Staff Lounge	80	
Staff Locker Room	80	
Nurse Supervisor Office	130	***
Nourishment Kitchen	100	***
Exam/Treatment Room		180 nsf
On-Call Bedroom	120	***
On-Call Toilet/Shower	80	***
<hr/>		
Clean Utility Room	150	5.0 nsf/bed (Max. 180 nsf)
Soiled Utility Room	120	4 nsf/bed (Max. 144 nsf)
Clean Linen Storage	80	***
Soiled Linen Storage	60	***
Clean Linen Holding Room	42	***
<hr/>		
Litter Storage	300	***
Transfer Equipment Storage	210	7 nsf/bed (Max. 252 nsf)
Medical Equipment Storage	180	***
Multipurpose Room	800	Max. 1600 nsf
Multipurpose/Activities Storage	100	***
Therapy Equipment Storage (For 30-60 beds)	150	For over 60 beds, add 100 nsf
Housekeeping Aide's Closet	40	***
Patient Storage	120	4 nsf/bed = 120 nsf; Max. 180 nsf

**TABLE B.1
VA SCI/DC ACUTE CARE/REHABILITATION
SPACE ALLOCATION MATRIX**

**1. VA SCI/DC Acute Care/Rehabilitation
Space Allocation Matrix**

SCI/DC Acute Care/Rehab.
Space Allocation Matrix-1 (AC/R 2 of 3)
Source: Paralyzed Veterans of America (PVA)

Spinal Cord Injury/Disorder Center (Acute Care/Rehab) - 30 Beds		
VA SCI Center Suite Room/Space Name	Guideline Space Allocation	VA Space Planning Criteria Chapter 104
Conference/Classroom	300	***
Quiet Room	150	***
Day Room/Lounge	400	***
Kitchenette		70 nsf
Resident Dining/Serving	1,600	Max. 2500 nsf.
Horticulture Therapy	150	***
Physical Therapy/ Kinesiology Therapy	3,000	***
Therapist Cubicle		80 nsf
Patient Toilet		60 nsf
Patient Laundry	100	***
<hr/>		
SCI Center Lobby*	800	*
Visitor Lounge	200	***
Consultation Room*	NIC	*
Visitors' Toilet (Men or Women)	60	60 nsf
Internet Café	240	
<hr/>		
G.U. Clinic:		
Urodynamics: Cystoscopy	500	***
Urodynamics: Storage & Instrument Cleaning Rm	400	***
Urodynamics: Nurse Station	150	
Urologist Office**	130	***
Urodynamics: Exam/Treatment Rm**	180	***
Urodynamics: Recovery Rm**	300	***
Urodynamics: Dressing Room/Cubicle		100 nsf
Urodynamics: Patient Shower	80	
Radiography Film Developing		
Darkroom	40	***
Lightroom	60	***
<hr/>		
Home Environment Clinic:		Total 660 nsf
Living/Dining Room	240	***
Kitchen	167	***
Bedroom	169	***
Bathroom	84	***

**TABLE B.1 (CONT'D)
VA SCI/DC ACUTE CARE/REHABILITATION
SPACE ALLOCATION MATRIX**

**1. VA SCI/DC Acute Care/Rehabilitation
Space Allocation Matrix**

SCI/DC Acute Care/Rehab.
Space Allocation Matrix-1 (AC/R 3 of 3)
Source: Paralyzed Veterans of America (PVA)

Spinal Cord Injury/Disorder Center (Acute Care/Rehab) - 30 Beds		
VA SCI Center Suite Room/Space Name	Guideline Space Allocation	VA Space Planning Criteria Chapter 104
Outpatient Clinic:		
Nurse Station	150	***
Entrance/Waiting Area	150	Note 2
Patient Toilets/Staff Toilet	60	
Staff Shower Room	80	
Clean Utility Room	120	
Home Care Interview Rm.	120	
SCIC Chief of Service Office	150	
Physician's Office**	130	***
Examination/Treatment Rm.**	180	***
Psychologist's Office**	130	
Social Worker's Office**	130	
Case Manager's Office**	NIC	
Pharmacy	160	
Hydrotherapy		
Hydrotherapy	380	Note 3
Kinesiotherapy Treatment Clinic (*For 60-100 beds)	1080*	Note 3; (Over 100 Beds - 1250 nsf)
Occupational Therapy	800	Note 3
Activities of Daily Living:	200	Note 3
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 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 SCIC 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**

**2. VA SCI/DC Long Term Care
Space Allocation Matrix**

SCI/DC Long Term Care
Space Allocation Matrix-2 (LTC 1 of 2)
Source: Paralyzed Veterans of America (PVA)

Spinal Cord Injury/Disorder Center (Long Term Care) - 30 Beds		
VA SCI Center Suite Room/Space Name	Guideline Space Allocation	VA Space Planning Criteria Chapter 104
One-bed Rooms (16 Beds = 16 Rms)	320	*** & Note 1
Isolation/Ante room	320/ 75	***
Two-bed Rooms (14 Beds = 7 Rms)	480	*** & Note 1
Patient (Litter) Bathroom (16 + 14 = 30)	120	***
Nurse Station		
Ward Clerk	80	***
Charting	150	240 nsf at Intensive Care Units
Medication Room	120	***
Staff Toilet	60	50 nsf
Staff Lounge*	80	*
Staff Lockers*	80	*
Nurse Supervisor Office	130	***
Nourishment Kitchen	100	***
Exam/Treatment Room		180 nsf
On-Call Bedroom	120	***
On-Call Toilet/Shower	80	***
Clean Utility Room		
Clean Utility Room	150	5.0 nsf/bed (Max. 180 nsf)
Soiled Utility Room	120	4 nsf/bed (Max. 144 nsf)
Clean Linen Storage	80	***
Soiled Linen Storage	60	***
Clean Linen Holding Room	42	***
Litter Storage		
Litter Storage	300	***
Transfer Equipment Storage	210	7 nsf/bed (Max. 252 nsf)
Medical Equipment Storage	180	***
Stretcher/Wheelchair Alcove	40	
Building Management Storage*	100	***
Combined PT/OT/KT Occupational Therapy	800	
Therapy Equipment Storage (For 30-60 beds)	150	For over 60 beds, add 100 nsf
Housekeeping Aide's Closet	40	***
Patient Clothing/Luggage Storage	180	6 nsf/bed = 180 nsf (Max. 216 nsf)

**TABLE B.2
VA SCI/DC LONG TERM CARE
SPACE ALLOCATION MATRIX**

**2. VA SCI/DC Long Term Care
Space Allocation Matrix**

SCI/DC Long Term Care
Space Allocation Matrix-2 (LTC 2 of 2)
Source: Paralyzed Veterans of America (PVA)

Spinal Cord Injury/Disorder Center (Long Term Care) - 30 Beds		
VA SCI Center Suite Room/Space Name	Guideline Space Allocation	VA Space Planning Criteria Chapter 104
Conference/Classroom	300	***
Quiet Room	150	***
Day Room/Lounge	400	***
Kitchenette*		70 nsf
(On Unit) Resident Dining/Serving	1,665	Min. 1600 nsf, Max. 2500 nsf.
Horticulture Therapy	150	***
Therapist Cubicle		80 nsf
Recreational Therapy Room Toilet		60 nsf
Patient Laundry Room	100	***
SCI Center Lobby*	800	*
Visitors' Lounge	200	***
Consultation Room*	NIC	*
Visitors' Toilet (Men or Women)	60	60 nsf
Computer Room*	300	
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

SCI/DC Outpatient Clinic
Space Allocation Matrix-3 OTC 1 of 1
Source: Paralyzed Veterans Affairs (PVA)

Spinal Cord Injury/Disorders Center (Component of VA Ambulatory Care Outpatient)		
VA SCI Center Suite Room/Space Name	Guideline Space Allocation	VA Space Planning Criteria Chapter 104
Outpatient Clinic:		
Nurse Station	150	***
Entrance/Waiting Area	200	Note 1
Patient Toilets	60	
Shower Room	80	
Clean Utility	120	
Home Care Interview Rm.	120	
SCIC Chief of Service Office	150	
Physician's Office**	130	***
Examination/Treatment Rm.**	180	***
Psychologist's Office**	130	
Social Worker's Office**	130	
Case Manager's Office**	NIC	
Pharmacy	160	
Net Space Total		
Circulation (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 SCIC 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.

TABLE B.3
VA SCI/DC FREE-STANDING OUTPATIENT CLINICS
SPACE ALLOCATION MATRIX

Page Left Blank Intentionally

