

APPENDIX E
MORALE, WELFARE, AND RECREATIONAL FACILITIES (NONAPPROPRIATED FUNDS)

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APPENDIX E
MORALE, WELFARE, AND RECREATIONAL FACILITIES (NONAPPROPRIATED FUNDS)

1. GENERAL AND SPECIFIC CRITERIA. The specific criteria contained in this appendix are applicable to the design of morale, welfare, and recreational facilities that are normally funded from nonappropriated funds (NAF). The general criteria contained in the preceding chapters are applicable where such criteria are not included in this appendix. Therefore, this appendix must be used with the chapters contained in this document.

a. New Facilities. The space allowances and guidance contained in this appendix may be used when planning new NAF Morale, Welfare, and Recreational (MWR) facilities. However, NAF MWR projects will be built to the square meters (square footages) justified by a MWR needs assessment and market survey in accordance with the current edition of AR 215-1 (reference E-1).

b. Conversion of Existing Facilities. Maximum practicable use will be made of existing facilities. A new facility will be provided only when no existing available facilities will satisfy the requirement. When an existing facility is converted to use as a welfare or recreation facility, the space criteria indicated here may be increased by not more than 20 percent when necessary to effect economical and efficient use of the existing facility.

c. Computation of Gross Areas. The gross area of facilities will be computed according to the definition in chapter 5. Unless otherwise noted, separate mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown in the following subparagraphs when determining a single gross area figure for a project DD Form 1391.

d. Project Justification. The requirements for welfare and recreation facilities will be carefully determined, taking into consideration all pertinent factors such as the tenure of the installation, number of military personnel or population to be served, accessibility and abilities of existing, similar civilian or military community support-type facilities, climatic conditions affecting the use of the proposed facility, and the impact on morale.

e. Master Plans. Sites will be selected according to the approved installation master plan so as to provide for an orderly development, adequate service coverage in convenient locations without duplication, and maximum economy in construction and operation.

f. Site Planning Criteria. Before proceeding with the site planning of a project, the project requirements should be verified to assure that they meet the user's needs and that the selected site meets the approval procedures. When these verifications are complete, a site design may be developed in accordance with the siting criteria in chapter 3 of the TI.

g. Funding Policy. Funding for the establishment, construction, maintenance, and operation of certain welfare and recreation facilities will be in accordance with DoD Directive 1015.6 (reference E-2).

2. NAF FACILITIES.

a. Aero Club Facilities. An Aero Club is a recreational flying activity located at or near an installation, used by authorized personnel, and approved by the Department of the Army. The Aero Club space allowances shown in table E-1 are intended to provide hangar space to be used to maintain aircraft and for aircraft storage during inclement weather, and to provide multi-purpose space for administration, classrooms, flight planning, operations, safety meetings, scheduling, and training. Space requirements are based on the number of aircraft operated by the club.

TABLE E-1 SPACE CRITERIA FOR AERO CLUB FACILITIES				
NUMBER OF AIRCRAFT	GROSS AREA ¹			
	HANGER SPACE		MULTIPURPOSE SPACE	
	square meters	(square feet)	square meters	(square feet)
one (1)	84	(900)	46	(500)
2 to 5	214	(2,300)	93	(1,000)
6 to 10	353	(3,800)	111	(1,200)
11 to 15	492	(5,300)	139	(1,500)
16 to 20	632	(6,800)	158	(1,700)
for each additional 5 aircraft, add	139	(1,500)	35	(375)

¹ Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown when determining a single gross area figure for each facility.

b. Arts and Crafts/Skill Development Centers. The space allowances shown in table E-2 for arts and crafts/skill development centers are intended to provide facilities for the free time pursuit of ceramic and pottery work, drawing and painting, telecommunications, jewelry and metal work, leather work, model design and construction, photography, and woodworking. DG 1110-3-124 (reference E-3) will be used as a guide when designing arts and crafts/skill development centers.

TABLE E-2 SPACE CRITERIA FOR ARTS AND CRAFTS/SKILL DEVELOPMENT CENTERS		
MILITARY POPULATION ¹	GROSS AREA ²	
	square meters	(square feet)
Up to 100	Note ³	Note ³
101 to 250	186	(2,000)
251 to 500	279	(3,000)
501 to 1,000	372	(4,000)
1,001 to 3,000	557	(6,000)
3,001 to 5,000	697	(7,500)
5,001 to 7,000	929	(10,000)
7,001 to 10,000	1301	(14,000)
10,001 to 15,000	1858	(20,000)
15,001 to 20,000	2323	(25,000)
20,001 to 25,000	2787	(30,000)

TABLE E-2 SPACE CRITERIA FOR ARTS AND CRAFTS/SKILL DEVELOPMENT CENTERS		
MILITARY POPULATION ¹	GROSS AREA ²	
	square meters	(square feet)
25,001 to 30,000	3252	(35,000)
30,001 to 40,000	3716	(40,000)
40,001 to 50,000	4181	(45,000)
50,001 to 60,000	4645	(50,000)
60,001 to 70,000	5110	(55,000)
70,001 to 80,000	5574	(60,000)
80,001 to 90,000	6039	(65,000)
90,001 to 100,000	6503	(70,000)

¹ Military population is defined as active duty military strength assigned to the installation, plus 70 percent of their dependents.

² Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown when determining a single gross area for each facility.

³ This requirement should be accommodated in other facilities.

c. Automotive/Skill Development Centers. Automotive/skill development centers are intended to provide facilities for the self-help improvement, maintenance, modification, and repair of automobiles belonging to the military population. A small classroom may be added when desired. DG 1110-3-126 (reference E-4) will be used as a guide when designing automotive/skill development centers. Space allowances are shown in table E-3.

TABLE E-3 SPACE CRITERIA FOR AUTOMOTIVE/SKILL DEVELOPMENT CENTERS		
MILITARY POPULATION ¹	GROSS AREA ^{2, 3, & 4}	
	square meters	(square feet)
Up to 25	None	None
26 to 50	93	(1,000)
51 to 100	139	(1,500)
101 to 250	209	(2,250)
251 to 500	279	(3,000)
501 to 1,000	390	(4,200)
1,001 to 3,000	557	(6,000)
3,001 to 5,000	836	(9,000)

TABLE E-3 SPACE CRITERIA FOR AUTOMOTIVE/SKILL DEVELOPMENT CENTERS		
MILITARY POPULATION ¹	GROSS AREA ^{2, 3, & 4}	
	square meters	(square feet)
5,001 to 7,000	1115	(12,000)
7,001 to 10,000	1394	(15,000)
10,001 to 15,000	1672	(18,000)
15,001 to 20,000	1951	(21,000)
20,001 to 30,000	2230	(24,000)
30,001 to 40,000	2787	(30,000)
40,001 to 50,000	3344	(36,000)
50,001 to 60,000	3902	(42,000)

- ¹ Military population is defined as active duty military strength assigned to the installation, plus 10 percent of their dependents.
- ² Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown when determining a single gross area figure for each facility.
- ³ Gross areas are based on 46.5 m² (500 ft²) per automobile for fully enclosed automotive/skill development centers.
- ⁴ Outside automotive work stalls either covered, open, or shielded are not chargeable to the authorized space.

d. Bowling Centers. The gross area and number of lanes that may be provided for bowling centers are shown in table E-4. Procurement Procedures Manual (reference E-5) will be used when soliciting proposals for the design and construction of a new nonappropriated fund bowling facility using a design/build (One-Step Competitive Negotiation "Turnkey") process.

TABLE E-4 SPACE CRITERIA FOR BOWLING CENTERS			
MILITARY POPULATION ^{1&2}	NUMBER OF LANES	GROSS AREA ^{3, 4 & 5}	
		square meters	square feet
All Locations			
Up to 250	2	251	(2,700)
251 to 1,000	4	418	(4,500)
1,001 to 1,800	6	613	(6,600)
1,801 to 2,500	8	790	(8,500)
2,501 to 3,200	10	999	(10,750)

TABLE E-4 SPACE CRITERIA FOR BOWLING CENTERS			
MILITARY POPULATION ^{1&2}	NUMBER OF LANES	GROSS AREA ^{3,4&5}	
		square meters	square feet
3,201 to 3,800	12	1189	(12,800)
CONUS Locations			
3,801 to 4,900	14	1356	(14,600)
4,901 to 6,300	16	1533	(16,500)
6,301 to 7,700	18	1709	(18,400)
7,701 to 9,800	24	2295	(24,700)
9,801 to 12,600	30	2880	(31,000)
OCONUS Locations			
3,801 to 4,900	16	1533	(16,500)
4,901 to 6,300	20	1904	(20,500)
6,301 to 7,700	24	2295	(24,700)
7,701 to 9,800	32	3047	(32,800)
9,801 to 12,600	40	3781	(40,700)

- ¹ Military population is defined as active duty military personnel assigned to the installation, plus 40 percent of their dependents.
- ² For each increment increase of 700 military population above 12,600, two additional lanes totaling 177 m² (1,900 ft²) gross area may be provided. Additional lanes will not be provided for any increase below a full increment and no additional lanes will be provided at installations in the 48 contiguous states without a complete and full study of the needs and the economic factors involved.
- ³ Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown when determining a single gross area figure for each facility.
- ⁴ CONUS includes space for equipment and storage. For each increment of four lanes, an additional 27.9 m² (300 ft²) gross area may be added for a game room for amusement games, billiards, and pool.
- ⁵ OCONUS includes space for equipment and storage. For each increment of four lanes, 46.5 m² (500 ft²) gross area may be added for a game room for amusement games, billiards, and pool.

e. Family Camps (FAMCAMPs)/Travel Camps/Recreation Campgrounds. These types of facilities are family campsites located on government-owned land and used by authorized personnel for brief camping tours. FAMCAMPs may be established when there is a justifiable demand for the accommodations. Factors to consider in determining a requirement are land availability, average daily transient population, recreational resources and attractions within the surrounding geographical area, and access to an interstate highway system. A FAMCAMP may contain:

- (1) Electrical and water outlets at each camping vehicle parking space.
 - (2) A land area of 2 to 4 hectares (5 to 10 acres), but not larger than that required to accommodate efficiently the desired campsites.
 - (3) One sanitary station for the deposit of sewage from vehicle holding tanks.
 - (4) One service building, not to exceed 111.5 m² (1,200 ft²) gross area, to include male and female toilet facilities or unisex toilet facilities, showers, service sink, two washers, two dryers, two vending machines, and an operator's office, a recreational equipment issue and storage area, and a roofed shelter with open sides.
 - (5) One watering station to supply potable water to vehicle storage tanks.
 - (6) Parking spaces normally for not more than 60 camping vehicles with adjoining grounds. Each camp unit should occupy a space of about 185.8 to 278.7 m² (2,000 to 3,000 ft²).
 - (7) Play area for children.
 - (8) Refuse containers that are durable and sanitary.
 - (9) Tent camping area.
- f. Golf Facilities. At installations where the necessary land is available for the purpose and when there are no foreseeable operational requirements for the land, golf facilities may be provided as shown in table E-5. Each installation is authorized a driving range in addition to the golf facilities shown in table E-5.

TABLE E-5 SPACE CRITERIA FOR GOLF FACILITIES					
MILITARY POPULATION	GOLF COURSE ² NUMBER OF HOLES	CLUB HOUSE ^{3, 4, & 5}		EQUIPMENT BUILDING ^{3 & 4}	
		m ²	(ft ²)	m ²	(ft ²)
Up to 2,000	None	None	None	None	None
2,001 to 4,000	9	605	(6,500)	140	(1,500)
4,001 to 8,000	18	745	(8,000)	190	(2,000)
8,001 to 12,000	27	840	(9,000)	235	(2,500)
over 12,000	36	930	(10,000)	280	(3,000)

- ¹ Military population is defined as active duty military personnel assigned to the installation, plus 35 percent of their dependents, plus 25 percent of retired personnel supported by the installation.
- ² A pitch-and-putt course will be considered as the equivalent of a golf course of the same number of holes.
- ³ Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown when determining a single gross area figure for each facility.
- ⁴ Separate facilities may be provided for each separate golf course. However, the total combined space will not exceed these allowances.

⁵ Additional area as required may be provided in golf club houses for the storage of carts.

g. Gun, Skeet, and Trap Facilities. Space may be provided in one facility or divided between facilities. This facility includes gun and ammunition maintenance, lounge, operator's office, projector area, sales and storage areas, and toilet facilities. These facilities should be designed in accordance with the criteria of TM 5-803-10 (reference E-6). Space allowances are shown in table E-6.

TABLE E-6 SPACE CRITERIA FOR GUN, SKEET, AND TRAP FACILITIES			
MILITARY POPULATION ¹	LAND AREA ²		FACILITY GROSS AREA ³
	SKEET RANGE	TRAP RANGE	
Up to 100	None	None	None
101 to 10,000	335 m by 732 m (1,100 ft by 2,400 ft)	335 m by 548 m (1,100 ft by 1,800 ft)	367 m ² (3,950 ft ²)
10,001 to 15,000	335 m by 732 m (1,100 ft by 2,400 ft)	335 m by 576 m (1,100 ft by 1,890 ft)	399 m ² (4,300 ft ²)
15,001 to 20,000	335 m by 732 m (1,100 ft by 2,400 ft)	335 m by 604 m (1,100 ft by 1,980 ft)	423 m ² (4,550 ft ²)
20,001 to 25,000	335 m by 732 m (1,100 ft by 2,400 ft)	335 m by 631 m (1,100 ft by 2,070 ft)	446 m ² (4,800 ft ²)
25,001 to 30,000	335 m by 732 m (1,100 ft by 2,400 ft)	335 m by 658 m (1,100 ft by 2,160 ft)	474 m ² (5,100 ft ²)
30,001 to 40,000	335 m by 777 m (1,100 ft by 2,550 ft)	335 m by 686 m (1,100 ft by 2,250 ft)	492 m ² (5,300 ft ²)
40,001 and over	335 m by 823 m (1,100 ft by 2,700 ft)	335 m by 713 m (1,100 ft by 2,340 ft)	511 m ² (5,500 ft ²)

¹ Military population is defined as active duty military strength assigned to the installation, plus 10 percent of their dependents, plus 15 percent of retired military supported by the installation.

² Land area recommendations were made by the National Shooting Sports Foundation and National Rifle Association.

³ Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown when determining a single gross area figure for each facility.

h. Marina Support Centers. This facility provides space for an office, and equipment check-out, repair, and storage. The facility does not include docks, marina slips, and walkways that are subject to a special requirements study. This is a special facility, required only at outdoor recreational areas, that has waterfront facilities available for boating activities. Space allowances are shown in table E-7.

TABLE E-7 SPACE CRITERIA FOR MARINA SUPPORT CENTERS		
MILITARY POPULATION ¹	GROSS AREA ²	
	square meters	(square feet)
Up to 100	None	None
101 to 1,000	325	(3,500)
1,001 to 3,000	539	(5,800)
3,001 to 5,000	785	(8,450)
5,001 to 7,000	975	(10,500)
7,001 to 10,000	1175	(12,650)
10,001 to 15,000	1449	(15,600)
15,001 to 20,000	1737	(18,700)
20,001 to 25,000	1932	(20,800)
25,001 to 30,000	2044	(22,000)
30,001 to 40,000	2192	(23,600)
40,001 to 50,000	2360	(25,400)
50,001 to 60,000	2508	(27,000)
60,001 to 70,000	2629	(28,300)
70,001 to 80,000	2741	(29,500)
80,001 to 90,000	2843	(30,600)
90,001 to 100,000	2936	(31,600)

¹ Military population is defined as active duty military personnel assigned to the installation, plus 15 percent of their dependents.

² Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown when determining a single gross area figure for each facility.

I. Mess/Club for Enlisted Personnel. DG 1110-3-134 (reference E-7) will be used as a guide when designing a mess/club for enlisted personnel. Space criteria for lower grade enlisted personnel messes/clubs are shown in table E-8.

TABLE E-8 SPACE CRITERIA FOR MESS/CLUB FOR LOWER GRADE ENLISTED PERSONNEL		
MILITARY POPULATION ¹ E1 THROUGH E3	GROSS AREA ²	
	square meters	(square feet)
Up to 500	Note ³	Note ³

TABLE E-8 SPACE CRITERIA FOR MESS/CLUB FOR LOWER GRADE ENLISTED PERSONNEL		
MILITARY POPULATION ¹ E1 THROUGH E3	GROSS AREA ²	
	square meters	(square feet)
501 to 1,000	929	(10,000)
1,001 to 3,000	1765	(19,000)
3,001 to 5,000	2787	(30,000)
5,001 to 7,000	3716	(40,000)
7,001 to 10,000	4645	(50,000)
10,001 to 15,000	5574	(60,000)
15,001 to 20,000	6503	(70,000)
20,001 to 25,000	7432	(80,000)
25,001 to 30,000	8361	(90,000)
30,001 to 40,000	10 219	(110,000)
40,001 to 50,000	12 077	(130,000)
50,001 to 60,000	13 932	(150,000)

¹ Military population is defined as active duty enlisted personnel assigned to the installation, grades E1 through E3, plus 50 percent of their spouses. An enlisted personnel mess/club operating an annex or branch to accommodate noncommissioned officers (grades above E3 or E4) may use the combined space allowances for the noncommissioned officers' mess/club and enlisted personnel mess/club to determine the total allowance.

² Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown when determining a single gross area figure for each facility.

³ Space requirements will be accommodated in other facilities at 2.8 m² (30 ft²) gross area per member.

j. Mess/Club for Noncommissioned Officers. DG 1110-3-134 (reference E-7) will be used as a guide when designing mess/club facilities for noncommissioned officers. Space allowances for noncommissioned officers' messes/clubs are shown in table E-9.

k. Mess/Club for Officers. DG 1110-3-134 (reference E-7) will be used as a guide when designing a mess/club for officers. Space allowances for officers' messes/clubs are shown in table E-10.

TABLE E-9 SPACE CRITERIA FOR NONCOMMISSIONED OFFICERS' MESS/CLUB		
MILITARY POPULATION ¹	GROSS AREA ^{2 & 3}	
	square meters	(square feet)
Up to 50	Note ⁴	Note ⁴
51 to 150	409	(4,400)
151 to 250	604	(6,500)
251 to 400	743	(8,000)
401 to 750	1301	(14,000)
751 to 1,250	1561	(16,800)
1,251 to 2,000	2044	(22,000)
2,001 to 3,000	2583	(27,800)
3,001 to 4,000	3344	(36,000)
4,001 to 5,000	3902	(42,000)
5,001 to 6,000	4552	(49,000)
6,001 to 8,000	5500	(59,200)
8,001 to 10,000	6317	(68,000)
10,001 to 12,000	7255	(78,100)
12,001 to 14,000	8157	(87,000)
14,001 to 16,000	9179	(98,800)
16,001 to 18,000	9792	(105,400)
18,001 to 20,000	10 507	(113,100)
20,001 to 22,000	11 222	(120,800)
22,001 to 24,000	11 966	(128,800)
24,001 to 26,000	12 662	(136,300)
26,001 to 28,000	13 173	(141,800)
28,001 to 30,000	13 842	(149,000)

¹ Military population is defined as active duty noncommissioned officers in the top six grades assigned to the installation, plus 50 percent of their spouses, plus 50 percent of the retirees supported by the installation. A noncommissioned officers' mess/club operating an annex or branch to accommodate lower grade enlisted personnel (grades E1 to E3) or as a combined mess/club for all enlisted grades (which is recommended) may use the combined space allowances for the noncommissioned officers' mess/club and the enlisted personnel mess/club to determine space allowances. Space allowances may be divided to provide separate facilities for grades E7 through E9, if required.

² Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown when determining a single gross area figure for each facility.

³ The space criteria will be reduced by the following percentages depending on the distances to major metropolitan areas:

Distance to a metropolitan center with a population of 100,000 or more.

More than 48 km (30 miles): 0 percent.

Less than 48 km (30 miles), but more than 24 km (15 miles): 5 percent.

Less than 24 km (15 miles): 10 percent.

⁴ Provide in other facilities at 4.1 m² (44 ft²) gross area per member.

TABLE E-10 SPACE CRITERIA FOR OFFICERS' MESS/CLUB		
MILITARY POPULATION ¹	GROSS AREA ^{2 & 3}	
	square meters	(square feet)
Up to 50	Note ⁴	Note ⁴
51 to 150	409	(4,400)
151 to 250	743	(8,000)
251 to 400	1115	(12,000)
401 to 750	1486	(16,000)
751 to 1,000	2044	(22,000)
1,001 to 2,000	2583	(27,800)
2,001 to 3,000	3344	(36,000)
3,001 to 4,000	3948	(42,500)
4,001 to 5,000	4506	(48,500)
5,001 to 6,000	5007	(53,900)
6,001 to 7,000	5528	(59,500)
7,001 to 8,000	5946	(64,000)
8,001 to 9,000	6317	(68,000)
9,001 to 10,000	6754	(72,700)

¹ Military population is defined as active duty officers assigned to the installation, plus 50 percent of their spouses, plus 50 percent of the retired officers supported by the installation.

² Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross

areas shown when determining a single gross area figure for each facility.

- ³ The space criteria will be reduced by the following percentages depending on the distances to major metropolitan areas:

Distance to a metropolitan center with a population of 100,000 or more.

More than 48 km (30 miles): 0 percent.

Less than 48 km (30 miles), but not more than 24 km (15 miles): 5 percent.

Less than 24 km (15 miles): 10 percent.

- ⁴ Provide in other facilities at 4.1 m² (44 ft²) gross area per member.

l. Off-Installation Recreation Areas. When government land is available, consideration may be given to the development of recreational areas off the installation subject to a special study and the proper approvals. When such recreation areas are developed, they will be available on a first-come-first-serve basis to members of all Military Departments.

m. Recreation Lodging. This type of facility provides space for private, semiprivate, or dormitory-type, or all three types of sleeping quarters plus bathrooms, dining and kitchen facilities, lounge, and storage areas. Space allowances may be used in varying numbers and sizes of buildings such as cabins, cottages, and dormitories to support outdoor activities and recreation areas. The number of authorized users will be determined for individual installations based on a survey and analysis determined in accordance with requirements of TM 5-803-12 (reference E-8). The total gross area of lodging facilities for each installation recreation area will not exceed that derived by multiplying the projected user requirement by the area allowance for each person corresponding to that provided in UEPH for enlisted personnel in the grades E2 through E4.

n. Restaurants, Installation (Post). When there is a substantial number of civilians regularly employed at an installation and it has been determined that adequate food service facilities are not available for these civilian employees, an installation restaurant may be established. Normally, installation restaurants will not be established when the number of civilians to be served is less than 500. However, consideration should be given to providing snack bar or vending machine service, or both. When it becomes necessary to provide food service for more than 5,000 civilian employees, two or more restaurants may be provided as determined by an economic study to ensure financial stability. Space allowances for installation restaurants are shown in table E-11.

TABLE E-11 SPACE CRITERIA FOR INSTALLATION RESTAURANTS		
NUMBER OF CIVILIAN EMPLOYEES	GROSS AREA ¹	
	square meters	(square feet)
Up to 500	None	None
501 to 700	455	(4,900)
701 to 1,000	808	(8,700)
1,001 to 1,500	1161	(12,500)
1,501 to 2,000	1459	(15,700)
2,001 to 2,500	1784	(19,200)

TABLE E-11 SPACE CRITERIA FOR INSTALLATION RESTAURANTS		
NUMBER OF CIVILIAN EMPLOYEES	GROSS AREA ¹	
	square meters	(square feet)
2,501 to 3,000	2118	(22,800)
3,001 to 3,500	2508	(27,000)
3,501 to 4,000	2833	(30,500)
4,001 to 4,500	3149	(33,900)
4,501 and over	3437	(37,000)

¹ Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown when determining a single gross area figure for each facility.

o. Riding Stables. This type of facility provides space for administration offices, box or double stalls, grain room, hay storage area, quarantine areas, quarters for one operator, single stalls, sweat pad and blanket drying area, tack lockers, tack room, toilet facilities, and treatment stalls. Space allowances are shown in table E-12.

TABLE E-12 SPACE CRITERIA FOR RIDING STABLES			
MILITARY POPULATION ¹	NUMBER OF STALLS	GROSS AREA ²	
		square meters	(square feet)
Up to 100	None	None	None
101 to 1,000	5	195	(2,100)
1,001 to 3,000	7	232	(2,500)
3,001 to 5,000	12	334	(3,600)
5,001 to 7,000	16	337	(4,700)
7,001 to 10,000	21	548	(5,900)
10,001 to 15,000	29	715	(7,700)
15,001 to 20,000	37	892	(9,600)
20,001 to 25,000	43	1045	(11,250)
25,001 to 30,000	50	1189	(12,800)
30,001 to 40,000	60	1654	(17,800)
40,001 to 50,000	72	1728	(18,600)
50,001 to 60,000	85	1895	(20,400)
60,001 to 70,000	91	2118	(22,800)

TABLE E-12 SPACE CRITERIA FOR RIDING STABLES			
MILITARY POPULATION ¹	NUMBER OF STALLS	GROSS AREA ²	
		square meters	(square feet)
70,001 to 80,000	105	2313	(24,900)
80,001 to 90,000	110	2508	(27,000)
90,001 to 100,000	124	2694	(29,000)

¹ Military population is defined as active duty military personnel assigned to the installation, plus 25 percent of their dependents.

² Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown when determining a single gross area figure for each facility.

p. Skating Rinks. This type of facility serves as an ice and roller skating rink requiring a hard surface floor with a potential for multi-purpose use. The facility may include administrative offices, equipment storage area, locker rooms, maintenance area, snack bar with kitchen area, and spectator areas. The minimum rink size will be 929 m² (10,000 ft²) gross area with additional space as required for support functions and increased based on the military population as shown in table E-13.

TABLE E-13 SPACE CRITERIA FOR SKATING RINKS		
MILITARY POPULATION ¹	GROSS AREA ²	
	square meters	(square feet)
Up to 2,000	929 ⁴	(10,000) ⁴
2,001 to 20,000	1394 ⁵	(15,000) ⁵
20,001 and over	1858 ⁵	(20,000) ⁵

¹ Military population is defined as active duty military personnel assigned to the installation, plus 50 percent of their dependents.

² Only one skating rink is authorized per installation.

³ Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown when determining a single gross area figure for each facility.

⁴ Additional space as required will be provided for support functions.

⁵ These gross areas include space for support functions.

q. Temporary Lodging Facilities (TLF) and Guest Houses. Temporary lodging facilities include living units constructed to provide short-term housing accommodations as stipulated in DoD Directive 4165.55 (reference E-9). When such facilities are authorized for new construction, the facilities will be hotel- or motel-type units with bathrooms, with or without kitchenettes, as required.

(1) Living Area. Living units with kitchenettes will contain no more than 41.8 m² (450 ft²) of gross living area per unit including the bathroom. Those living units without kitchenettes will contain no more than 39.5 m² (425 ft²) of gross living area per unit including the bathroom.

(2) Supporting Space. In addition to the maximum gross area stipulated per living unit, appropriate supporting spaces will be provided for administration offices, circulation space, lounges, mechanical, electrical, telecommunication and facility service requirements, and recreational areas. The space required for the support functions will vary depending on the number of living units, building configuration, and the availability of nearby facilities to support the required functions.

(3) Exception. These criteria will not apply to government-owned or leased-commercial facilities constructed before this document was issued.

r. Thrift Shops. Thrift shops may be established according to the criteria shown in table E-14 to provide a nonprofit facility for the purchase and sale by military personnel and their dependents of used apparel and household furniture, equipment, furnishings, and other items.

TABLE E-14 SPACE CRITERIA FOR THRIFT SHOPS		
MILITARY POPULATION ¹	GROSS AREA ^{2 & 3}	
	square meters	(square feet)
Up to 2,000	130	(1,400)
2,001 to 4,000	186	(2,000)
4,001 to 6,000	251	(2,700)
6,001 to 8,000	316	(3,400)
8,001 to 10,000	372	(4,000)
10,001 to 12,000	418	(4,500)
12,001 to 14,000	456	(4,900)
14,001 and over ⁴	487	(5,350)

¹ Military population is defined as active duty military personnel, plus 50 percent of their dependents.

² Mechanical, electrical, and telecommunication equipment room space as required will be added to the gross areas shown when determining a single gross area figure for each facility.

³ The Environmental Adjustment Factors (EAF) for thrift shops shown in table E-15 will be applied to the authorized space allowances shown in table E-14 for those installations having a military strength of over 2,000. These EAF are predicated on the availability of military family housing on the installation.

⁴ Only one thrift shop is authorized per installation.

TABLE E-15 ENVIRONMENTAL ADJUSTMENT FACTORS FOR THRIFT SHOPS	
PERCENT LIVING ON INSTALLATION ¹	ENVIRONMENTAL ADJUSTMENT FACTOR
Up to 51	0.70
52 to 75	0.80
76 to 90	0.95
91 to 100	1.00

¹ The Unmarried and Family Housing Survey will be used to determine these percentages.

s. Unit Entertainment Centers. The space allowances for unit entertainment centers are intended to provide facilities for the organization, preparation, and performance of unit entertainment activities and should include an auditorium with seating and a stage, equipment check-out and repair, office, practice rooms, and technical shops. The provision of facilities will be based on the number and disposition of military units on the particular installation. Normally, one 836.1 m² (9,000 ft²) gross area center plus separate mechanical, electrical, and telecommunication equipment room space will be provided for each UEPH complex of 3,000 military personnel, or one 325.2 m² (3,500 ft²) gross area center plus separate mechanical, electrical, and telecommunication equipment room space for a complex of 850 personnel, except that this facility may be provided only when it has been conclusively demonstrated that there is no existing facility that can meet the requirement on a joint-use basis.

3. REFERENCES.

- E-1 AR 215-1, The Administration of Army Morale, Welfare, and Recreational Activities and Nonappropriated Fund Instrumentalities, 10 October 1990
- E-2 DoD Directive 1015.6, Funding of Morale, Welfare and Recreation (MWR) Programs, August 3, 1984
- E-3 DG 1110-3-124, Design Guide, Arts and Crafts Centers, August 1976 (available on the USACE Publication Internet Site at <http://www.usace.army.mil/inet/usace-docs/design-guides/all.htm>)
- E-4 DG 1110-3-126, Design Guide, Auto Crafts Centers, August 1976 (available on the USACE Publication Internet Site at <http://www.usace.army.mil/inet/usace-docs/design-guides/all.htm>)
- E-5 RFP Manual, Non Appropriated Fund Procurement Manual for Bowling Centers, September 1989
- E-6 TM 5-803-10, Planning and Design of Outdoor Sports Facilities, April 1988
- E-7 DG 1110-3-134, Design Guide, Commissioned and Non-Commissioned Officers' Club, April 1975 (available on the USACE Publication Internet Site at <http://www.usace.army.mil/inet/usace-docs/design-guides/all.htm>)
- E-8 TM 5-803-12, Planning Outdoor Recreation Areas, September 1986
- E-9 DoD Directive 4165.55, Temporary Lodging Facilities (TLFs), December 1, 1972