

CHAPTER 4

INDIVIDUAL SPACE CRITERIA

4-1 GENERAL

a. **CONTENTS.** This Chapter, which provides detailed information necessary in planning and designing Recreation Centers, is divided into seven paragraphs which correspond to the seven types of activities that will be housed in the facility:

- Transitional Activities
- Large Group Activities
- Small Group Activities
- Administration Activities
- Refreshment Activities
- Service Activities
- Outdoor Activities

b. **ORGANIZATION.**

(1) *Activity Groups.* The activity groups are presented in order of their importance to the functional and spatial design of the Center. For example, the Transitional Area is presented first because the single most important spatial consideration is the movement of people through the Center, not only movement to a desired activity, but movement past other activities and other people, encouraging the broadest possible range of participation in activities and social interaction.

The Large Group Activities are presented next because the central program area is the largest single space in the Center, dominating its overall character and housing the most diverse group of activities.

The Small Group Activities are discussed next, and divided according to their size and requirements for enclosure.

(2) *Individual Spaces.* Individual space descriptions within each activity group are arranged according to sequential use of information in the design process, starting with general information which affects planning and conceptual design issues to specific, detailed criteria used in design development.

Various categories of information are then presented about each space, including the following:

- *Function*, or the purpose of the space and the activities it houses
- *Participants*, or the characteristics of the users
- *Size*, or the overall area of the space and the unit areas which comprise the space
- *Relationships*, or the requirements for proximity to or remoteness from other activities
- *Design Considerations*, or the important physical features that support the function of the space
- *Technical Requirements*, or the guidelines for the environmental systems design and specify the performance requirements for each system within $\pm 2\%$ tolerance. The acoustical criteria is provided to guide the design of the other systems rather than as a requirement for a definitive acoustical analysis and design
- *Interior Requirements*, or the finishing of the space

c. **HOW THIS INFORMATION IS TO BE USED.** When planning Recreation Centers, this Chapter should be reviewed by the using service to develop a program suitable for local constraints and opportunities (mission, location, staff) by supplementing the functional requirements to accommodate local conditions. Supplemental requirements should be documented in the Project Development Brochure and be consistent with the general requirements of this guide.

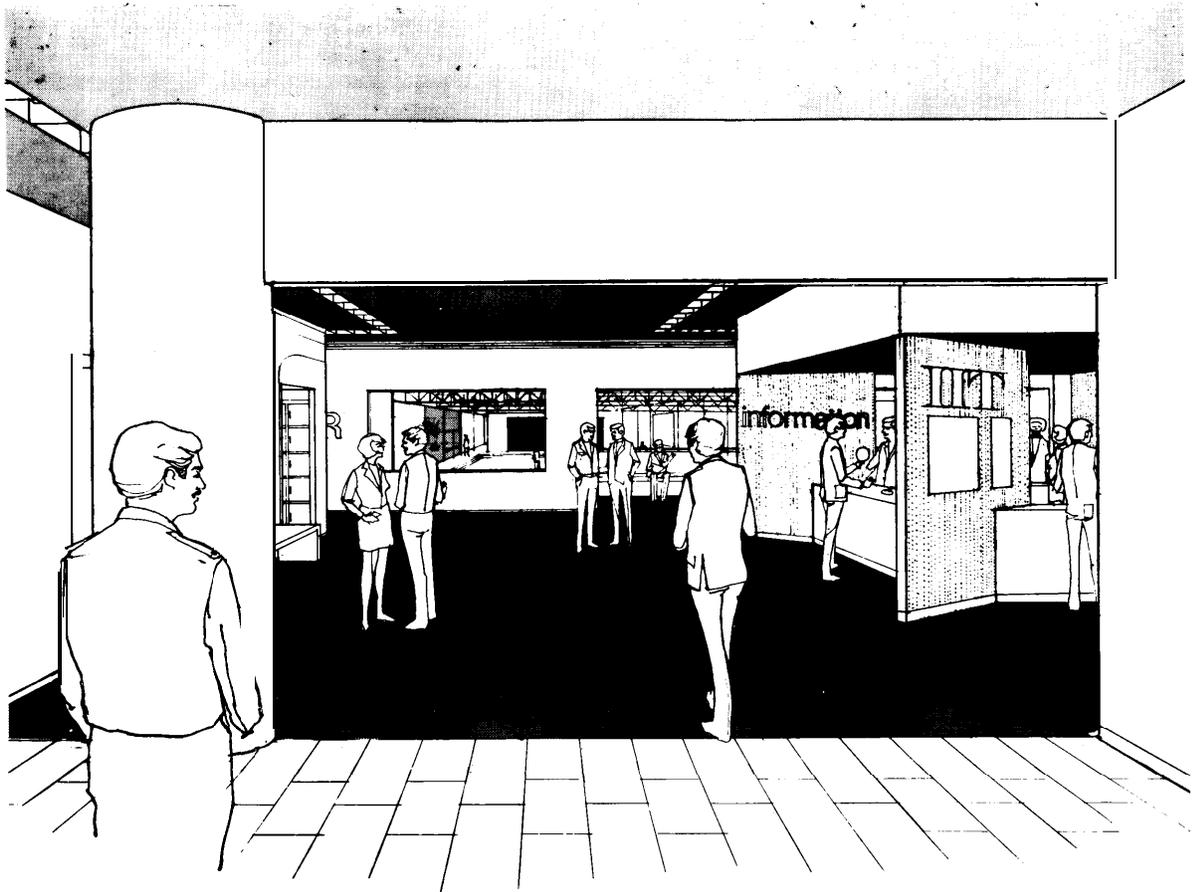


Figure 4-1 **Transitional Activities**

4-2 TRANSITIONAL ACTIVITIES

a. CIRCULATION/LOUNGE AREAS.

(1) *Function.* To integrate circulation and individual activities into a unified whole by providing a variety of experiences that encourage casual interaction between individuals as well as transitory involvement and visual contact between activities.

Transitional area activities consist of circulating, casually observing Center activities by staff and patrons, casually conversing, viewing displays and exhibits, entering and exiting functional areas within the Center, storing books and coats in lockers, and moving heavy program props, musical and audio-visual equipment.

(2) *Participants.* A variable number of individuals and small groups of two or more.

(3) *Size.*

Overall

Approximately 15% of total floor area of the Center

Lounges

All Centers 100-150 SF

(4) *Relationships.* The transitional area is integrated with all Recreation Center activities and provides immediate access to all areas, except to the mechanical equipment room which must be entered from outside the building.

Lounges should be provided and located in alcoves adjacent to circulation and between adjacent activity areas to encourage sponta-

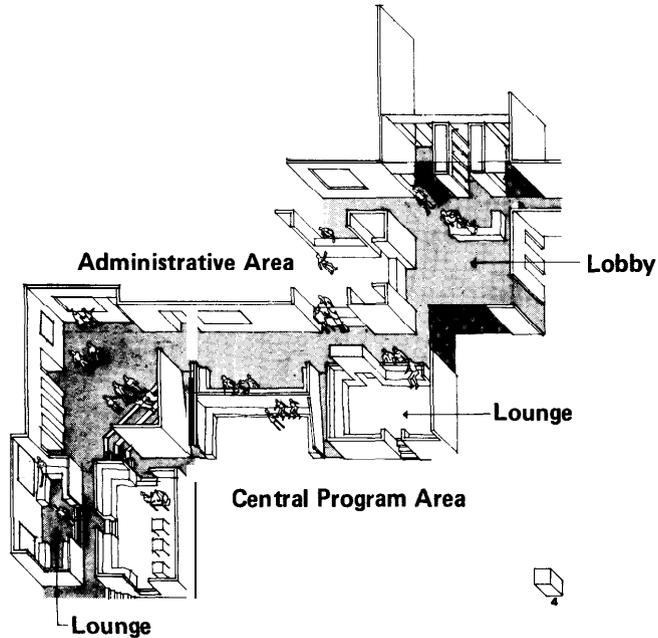


Figure 4-2 Circulation/Lounge Areas

neous conversations among people meeting while circulating between activities.

(5) *Design Considerations.* Circulation paths through the building must be easily understood by the users, especially in large Centers so that the user can circulate without loss of orientation.

Long, straight corridor-like spaces should be avoided; widths and configurations should vary according to use patterns. Overflow areas should be developed at entrances to highly used spaces. Small lounges should be provided at these points and equipped to be used as waiting space, game areas, informal meeting places or music listening areas with headphones.

Those activities that do not require partitioning for acoustical privacy should be left open to the transitional area and be defined through the use of low partitions, changes in floor levels, changes in color and light intensity and built-in perimeter seating.

Lounges should be integrated with the main-stream of activity and designed to limit distractions, permit reading and music listening, and conversations.

Ramp access to all major spaces from the transitional area is required to facilitate the movement of heavy equipment and handicapped personnel.

Different colors and/or textures of floor materials should be used in conjunction with changes in ceiling and lighting treatments to introduce, interrupt, or reinforce movement to or from different activity areas.

(6) *Technical Requirements*

(a) *Illumination*

Level 20 ftc
Type directional fluorescent
Control centrally from control desk;
emergency lighting

(b) *Power*

Outlets 1 per 50' length

(c) *Plumbing*

Drinking fountains (1 mtd for physically handicapped)

(d) *HVAC*

Summer 78°DB; 65°WB; RH 50%

Winter 68°

Air changes 6 per hour

(e) *Communications*

P/A 1 station per 100'

Sound 1 speaker per 100'
1 headphone jack and channel selector per 4' of seating
mtd 36" above floor

(f) *Acoustics*

Noise criteria PNC 35-40

Appropriate sound level 34-40 dB

Ave coef of absorption 0.30-0.40

Transmission (STC) +40 dB

Impact noise rating +5

(g) *Critical Dimensions*

60" minimum width ramps, 1' in 12'

(7) *Interior Requirements*

(a) *Equipment*

Ash urns, trash receptacles

(b) *Furniture*

Built-in lounge seating; information kiosks (provided by using service)

(c) *Finish Suggestions*

Walls painted drywall

Floors carpet

Ceiling acoustical tile

(d) *Colors*

Walls off-white

Floors warm accent colors

Ceilings white

Graphics primary accent colors

4-2 TRANSITIONAL ACTIVITIES (continued)

b. ENTRY/LOBBY.

(1) *Function.* To provide a controlled entrance to and exit from the Center in a congenial atmosphere which welcomes the visitor and encourages use of the Center. Also, to provide information about current activities and to orient the patrons to the spatial arrangement of the Center.

Entry/Lobby activities include entering and leaving the Center, casually conversing with others, seeking information about Center activities, milling about after events, or waiting for other people.

(2) *Participants.* Any number of individuals or small groups as well as large groups after central program presentations and at group meetings.

(3) *Size.*

Overall		
12,700 SF Center		250 SF
19,800 SF Center		400 SF
27,800 SF Center		550 SF

Space/Unit 2% of total floor area

(4) *Relationships.* Lobby should be adjacent to and visible from the control desk and ITT. There should be easy access to AAFES snack bar and vending area or amusement center, special interest, public toilets, and telephone area.

(5) *Design Considerations.* The entry should be easily perceived by potential users. It should therefore be prominently located on the main facade of the building, serving as its main visual

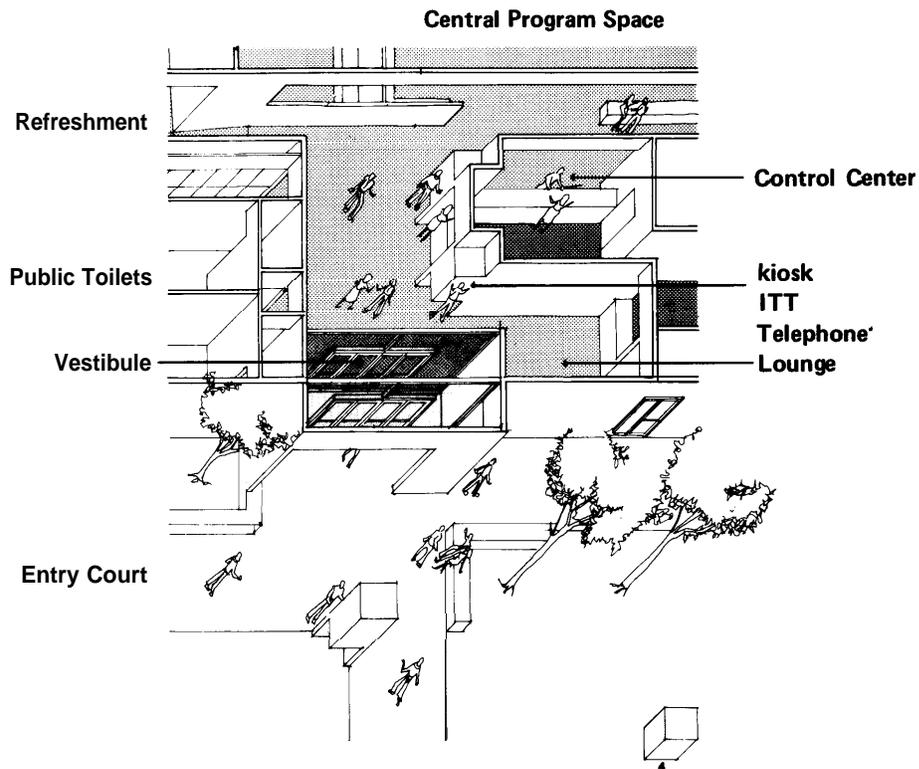


Figure 4-3 Lobby

element. In order for it to be inviting to the users, it should be visually open and permit sighting of a number of activities upon entering.

Because some functions may be operating when the remainder of the Center is closed (e.g., AAFES snack bar or amusement center, special interest, ITT and public telephones), the lobby should be designed to permit access to these areas and the public toilets as well as restrict entry into other areas. The use of rolling screens mounted in the ceiling or walls and other attractive means of security which enable the Center to be visually open and have a welcoming appearance should be employed.

To conserve energy, the entry should be located away from prevailing winter winds. In cold climates, a vestibule should be used to prevent drafts.

Built-in informal seating should be available so that people may wait in the lobby in comfort. However, such seating should not interfere with movement into or out of the Center. Information about the physical layout of the Center must be provided to the visitor so that activities and programs may be located without confusion. The following graphic devices should be provided in a conspicuous and attractive manner: facility identification sign with hours of operation; activity location signs that identify activities and locate them on a schematic building plan; notice boards for future activities, off-post activities, and personal messages; and directional signs to locate highly used spaces as well as out-of-the-way spaces. In addition, there should be provision for kiosk display area (provided by using service) for presenting special information. Display kiosks should accommodate rearview projection (super 8 mm film and 35 mm slides) and self-contained tapes.

(6) Technical Requirements

(a) Illumination

Level 20 ftc
 Type directional fluorescent
 Control centrally from control desk;
 emergency lighting

(b) Power

Outlets 1 per 50' length

Special 2 per kiosk in ceiling

(c) HVAC

Summer 78°DB; 65°WB; RH 50%
 Winter 68°
 Air changes 6 per hour

(d) Communications

P/A 1 station
 Sound 1 speaker
 1 headphone jack and channel selector per 4' of seating
 mtd 36" above floor

(e) Acoustics

Noise criteria PNC 35-40
 Appropriate sound level 34-40 dB
 Ave coef of absorption 0.30-0.40
 Transmission (STC) +40 dB
 Impact noise rating +5

(7) Interior Requirements

(a) Equipment

Ash urns, trash receptacles

(b) Furniture

Built-in lounge seating; information kiosks (provided by using service)

(c) Finish Suggestions

Walls painted drywall
 Floors carpet; rubber mat in vestibule
 Ceiling acoustical tile

(d) Colors

Walls off -white
 Floors warm accent colors
 Ceilings white
 Graphics primary accent colors

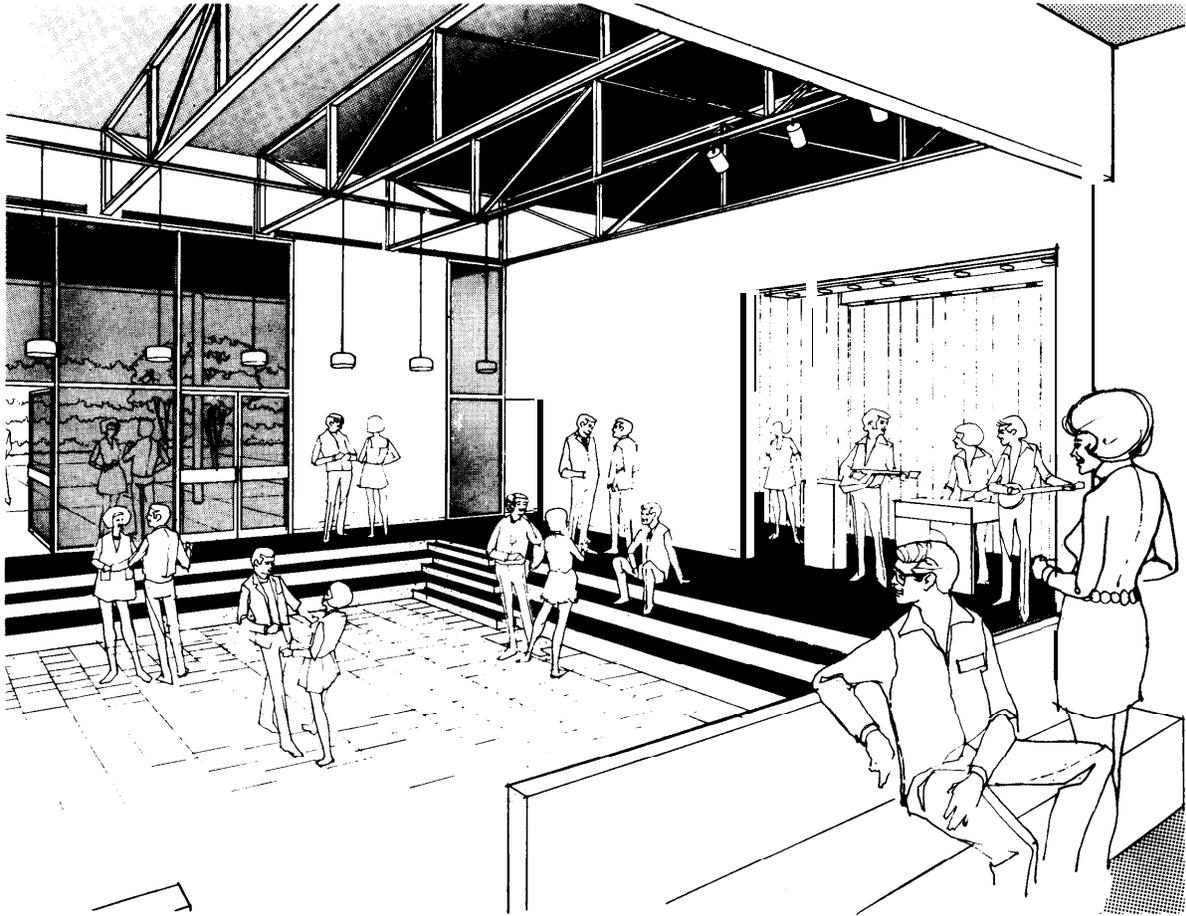


Figure 4-4 **Large Group Activities**

4-3 LARGE GROUP ACTIVITIES

a. CENTRAL PROGRAM AREA.

(1) *Function.* The central program area houses the following large group activities: dance events, festivals, exhibits, game activities such as bingo, informal entertainment presentations, short films, and large group TV viewing. When there are no large group activities scheduled, small group activities can be housed: card and game playing, eating and drinking, conversing and lounging. Also, non-recreational activities can take place in the central program area such as blood donation drives, commander's call, or graduation ceremonies.

These activities vary along three dimensions: total number of people involved; sizes of groups (can be one large group or a number of smaller groups); and focus of attention (central, as in

viewing a presentation, or diffuse, as in single participation activities).

(2) *Participants.* Small groups include participation from one to four people (involved in games, conversing, snacking, etc.); intermediate groups involve as many as 50 participants (viewing a special event or presentation); and large groups, comprised of as many as 500, whose focus may vary from that of a single group watching a performance, to couples dancing.

(3) *Size.*
 Overall
 12,700 SF Center 3,000 SF minimum
 19,800 SF Center 3,760 SF minimum
 27,800 SF Center 4,635 SF minimum

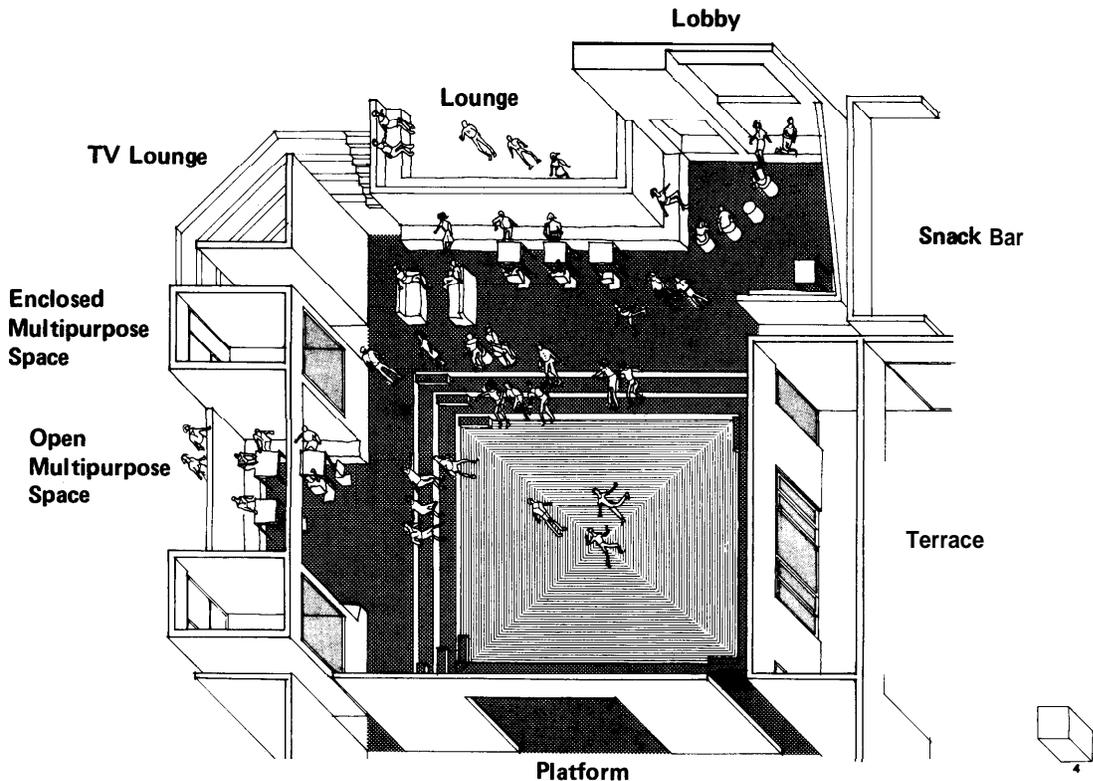


Figure 4-5 Central Program Area

Space/Unit

- 8 SF per participant: formal seating
- 12 SF per participant: table seating
- 15 SF per participant: dancing or active

(4) *Relationships.* The central program area should be encircled by compatible small group activity areas and should be immediately accessible to the following: pantry, terrace, eating areas, the control center, toilet rooms, and the storage area for tables and chairs.

However, it should be remote or acoustically separated from noisy activities such as pool, pingpong, electric games, combo practice and special interest activities that are disruptive to the central program area's special functions.

Because of the large numbers of people exiting from the central program area at one time, the transitional area at the central program area should form a lobby-lounge where people can mill about before going to another activity or leaving the facility.

(5) *Design Considerations.* The configuration of the central program area should allow overlap with other activity areas such as circulation, lounges, eating, small group activity rooms, platform and terrace. A variety of observation and entrance experiences should be created by the areas which overlook and project into the central program area. These activities should be exposed through the use of window openings, cutouts and railings in place of walls whenever a solid wall is not required for privacy or acoustical control. In addition, a fireplace lounge should be provided which is open to the central program area.

The central program area should be developed with several potential focal points in addition to a presentation platform; there should be a central, large area for demonstrations and exhibits. The seating areas should be oriented towards these foci.

The interior of the central program area should be as flexible as possible in order to accommodate the many activities taking place and the variable group size of the participants. No one area should be limited by function; for instance, the seating area should be flexible

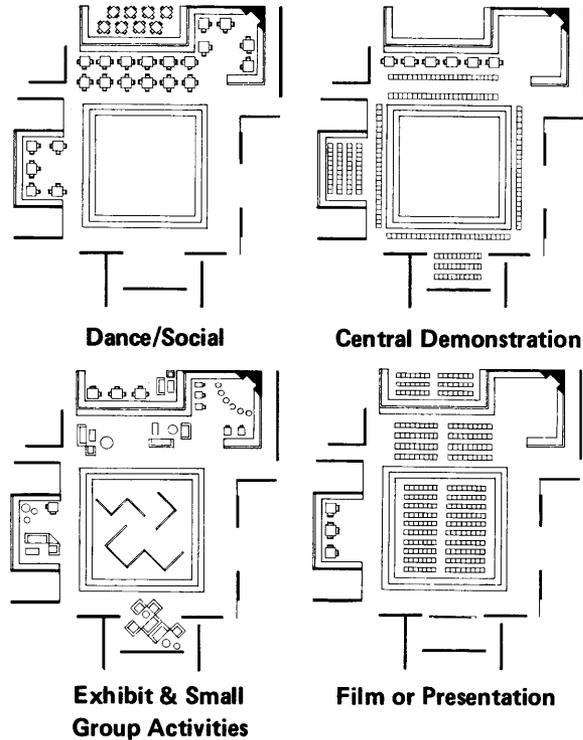


Figure 4-6 Central Program Area Alternative Use Plans

enough to allow activities other than large group viewing of a presentation.

Spatial variety should be developed through the use of stairs, half level partitions, changes in floor level and ceiling height, mezzanines (when practical). Ramps are a requirement to facilitate the movement of equipment and furnishings as well as handicapped personnel. The changes in floor level should also be planned to increase viewing angles and improve sight lines to the platform and central area.

(6) *Technical Requirements*

(a) *Illumination*

Level	Dancing	5 ftc
	Assembly	15 ftc
	Exhibits	30 ftc
	General illumination in accordance with IES Lighting Handbook.	
Type	Pooled over activity areas Adjustable track lighting – multi-circuit	

Overall illumination – fluorescent

Accent & display – incandescent

Special effects – strobes, projectors
(provided by using service)

Control Zoned on separate dimmers
House panel behind stage and control desk

Outlets Wall mtd 18" above floor 25' o.c.
Floor outlets (large group area only) every 200 SF
Ceiling outlets – plug adapters in light track using spare circuit

Clock Stage – wall mtd 2'-0" below ceiling line

(b) HVAC

Summer 78°DB; 65°WB; RH 50%

Winter 68°-70°

Air changes 15 per hour

(c) Communications

P/A 1 station per 500 SF

Sound 1 speaker per 500 SF
1 headphone jack and channel selector per 4' of seating in lounge areas

TV antenna jack in lounge areas

Sound Reinforcement System capability of 110 dB sound pressure level loudspeakers – central cluster above platform.

(d) Acoustics

Noise criteria PNC 20
Appropriate sound level 30 dB
Reverberation time 1.6-1.8 seconds
Ave coef of absorption 0.10-0.20 ceiling
0.25-0.40 walls
Transmission (STC) +50-60 dB
Impact noise rating +5

(e) Critical Dimensions

Ceiling height 14' average
10' minimum
24' maximum

(a) Equipment

Special effects & audio-visual equipment (provided by using service)

Heavy duty drapery hardware for black-out drapes

(b) Furniture

Built-in lounge seating; stacking chairs; folding card and long tables

(c) Finish Suggestions

Walls painted or fabric-covered wall board

Floor carpet, dance area — hardwood

Ceiling exposed structure, painted

(d) Color

Walls off -white

Accent primary accent colors

Structure primary accent colors

(7) Interior Requirements

4-3 LARGE GROUP ACTIVITIES (continued)

b. PLATFORM.

(1) *Function.* The platform serves as a focus during large group activities and as supplementary seating during demonstrations or exhibitions in the round and as small group activity space for meetings, card playing, etc.

Activities consist of speaking to, performing for, or being watched by a large group; equipment being stored or received from outside; set construction and movement; scenery and prop preparation and storage; costume changes.

(2) *Participants,* Panelists, speakers, instructors, and large and small group performers to include dance bands, choruses, etc.

(3) *Size.*

Platform	Dressing	Storage	Loading	Recmobile
12,700 SF Center	750	200	300	100
19,800 SF Center	750	250	450	100
27,800 SF Center	750	300	500	300

(4) *Relationships.* Because of its functions, the platform is the focal point of the central program area and should be encircled by it, much the same way that the central platform area is encircled by small group activity areas.

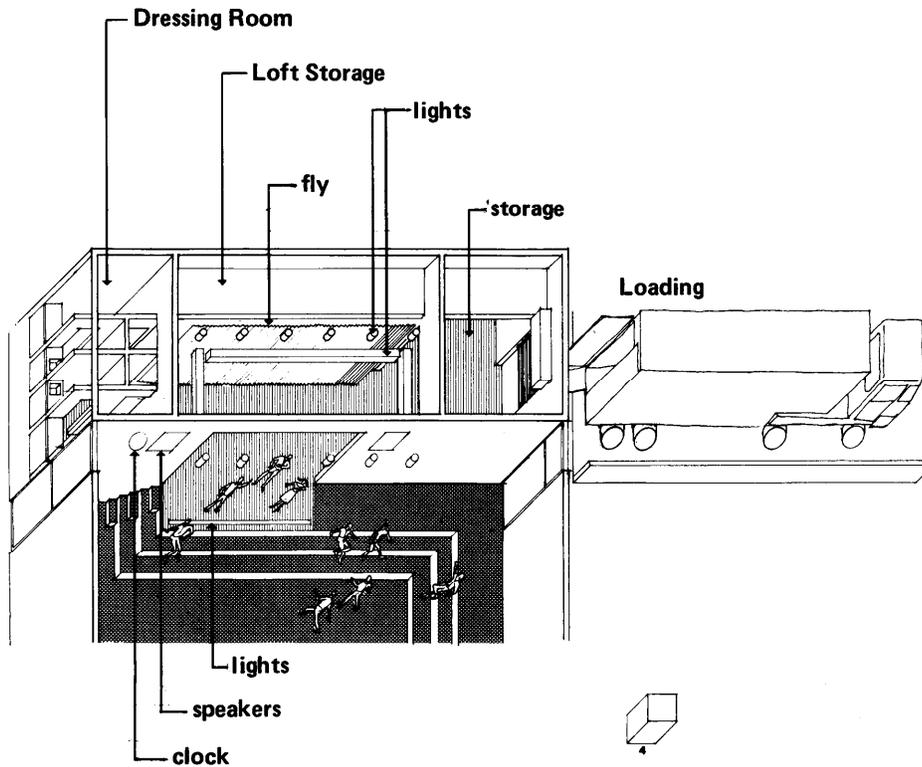


Figure 4-7 Platform

The platform should be located adjacent to, immediately accessible to, and on the same level as the following support activities: storage, loading and dressing rooms. Locate the dressing room toilets remote from walls adjoining the platform.

(5) *Design Considerations.* The platform should be planned as a thrust or open platform that projects into the central program area between 5 and 10 feet, so that it can be used in a traditional manner or in the round. The platform should be at least 3 feet above the floor of the central program area and should have surrounding steps that can be used for seating or presenting exhibitions.

The platform should be no less than 20 feet wide at the opening to the central program area to afford reasonable lines of sight to the presentation area.

The platform should accommodate a variety of uses, such as a platform for presentations, a forum for impromptu meetings, a lounge for casual interaction, and a setting for films and large screen TV presentations.

The levels adjacent to the platform should be used as an area for loose chairs and tables or as seats themselves.

Platform support areas include program prop storage, storage for stacking chairs and folding chair trucks, loft storage with access ladder for seasonal equipment, two dressing rooms and loading area.

In main Recreation Centers, an additional storage area with outside entrance for loading should be provided for Recmobile equipment. Recmobile storage requirements must include secure storage for miscellaneous audio-visual aids, program props, portable platform equipment, and musical instruments.

(6) *Technical Requirements.*

(a) *Illumination*

Level general, 20 ftc; dressing rm
 mirror, 50 ftc
Type indirect fluorescent
Control local switching

Platform Lighting: (to be used for guidance only; requirements must be

coordinated with using service)

- 6 front spotlights,
 ellipsoidal reflector 250w
- 3 disappearing floodlights,
 9 lamp, 150w
- 6 rear spotlights,
 Fresnel 150w
- 2 border lights, 8'; 16
 lamps, 4 colors 100w
- 1 background 25',36"
 lamps, 3 colors 200w
- 2 work lights 200w

(b) *Power*

Special Outlets

- 1 connector strip 24' long
- 2 surface mtd outlet boxes
- 4 4-way floor pockets
- 1 wall receptacle, 2-way 50 amp

Outlets 1 wall mtd in dressing rm,
 36" above floor

(c) *Plumbing*

WC and lavatory for each dressing rm

(d) *H V A C*

Summer 78°DB; 65°WB; RH 50%
Winter 65°-68°
Air changes 15 per hour

(e) *Communications*

- P/A 1 station in each dressing
 rm, 1 in storage
- Phone 1 to control desk
- T V Antenna jack
- Sound Amplifiers and speakers as
 required by using service.
 See central program area for
 requirements.

(f) *Acoustics*

Noise criteria PNC 35
Appropriate sound level 42 dB
Ave coef of absorption 0.15-0.25
Transmission (STC) +45-50 d B

(7) *Interior Requirements.*

(a) *Equipment*

- Electrically powered film screen
- Electrically powered platform curtain
- Fly and rear platform curtain

Design Guide: Recreation Centers - Individual Space Criteria - January 1976

(b) Furniture

Counter and mirror in each dressing rm

(c) Finish Suggestions

Walls painted exposed block or
drywall

Floors hardwood

Ceiling exposed structure

(d) Colors

Walls charcoal

Ceiling charcoal

Curtains primary accent colors

4-3 LARGE GROUP ACTIVITIES (continued)

c. PANTRY.

(1) *Function.* The pantry houses equipment for food preparation and service by Center staff to participants of large group activities or snacks for Center patrons; small cooking classes and demonstrations are also held here.

(2) *Participants.* Staff member or members, often assisted by non-staff people numbering up to eight.

(3) *Size.*

All Centers 250 SF minimum

(4) *Relationships.* The pantry should be immediately accessible to the central program area. It should be near the administrative offices and the control center.

(5) *Design Considerations.* The pantry should be planned to accommodate perimeter counters and appliances and a centrally located

service island, as well as the equipment listed in paragraph f.

One side of the room requires a serving window to the central program area to facilitate the distribution of refreshments.

(6) *Technical Requirements*

(a) *Illumination*

Level	50 ftc on counter surface; 30 ftc general
Type	direct task, fluorescent
Control	local switch

(b) *Power*

Outlets	1 every 12' mtd at 42" above floor
	1 at freezer, refrigerator, ice machine, mtd 18" above floor

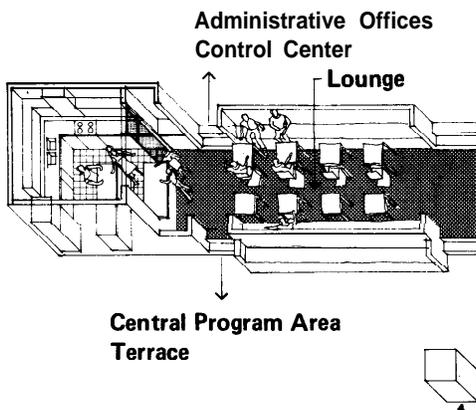


Figure 4-8 Pantry

Special clock outlet mtd 2' below ceiling
 Range outlet (220v); garbage disposal unit

(d) Colors

Walls off -white
 Accent cool primary accent colors

(c) Plumbing

Ice machine
 Double bowl, deep-well kitchen sink
 Built-in dishwasher

(d) HVAC

Summer 78°DB; 65°WB; RH 50%
 Winter 65°-68°
 Air changes 8 per hour
 Provide range hood and exhaust fan

(e) Communications

P/A 1 station
 Sound 1 speaker station

(f) Acoustics

Noise criteria PNC 35
 Sound level 42 dB
 Ave coef of absorption 0.30-0.40
 Transmission (STC) +43 dB

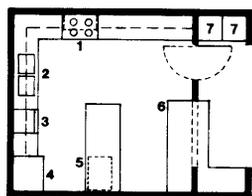
(7) Interior Requirements

(a) Equipment

Ice machine, coffee maker, popcorn machine, refrigerator, freezer, range, sink, disposer, dishwasher, wall and base cabinets

(b) Furniture

stools



- 1. Range
- 2. Double Sink
- 3. Dishwasher
- 4. Refrigerator/Freezer
- 5. Ice-Maker
- 6. Service Counter
- 7. Trash Receptacle

Figure 4-9 Pantry Equipment Layout

(c) Finish Suggestions

Walls vinyl covered drywall
 Floors sheet vinyl or epoxy resin
 Ceiling acoustical tile

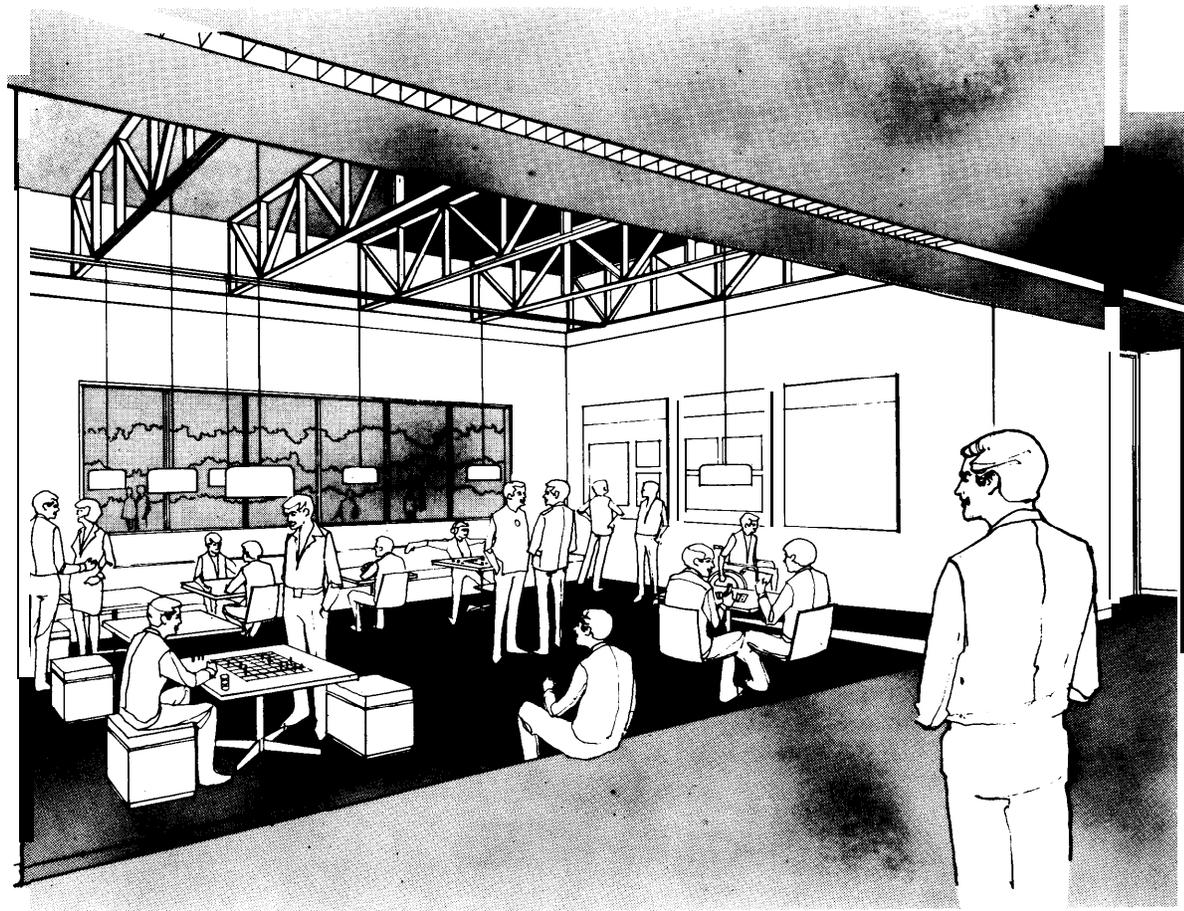


Figure 4-10 **Small Group Activities**

4-4 SMALL GROUP ACTIVITIES

a. ACTIVE GAMES AREA.

(1) *Function.* These areas house physical, active and noisy games. Those involved are either watching, waiting or participating in billiards, pingpong, shuffle board, air hockey, table soccer and electric games. Games are played individually or as part of a tournament program

(2) *Participants.* Two to five people per table. The number of onlookers varies.

(3) *Size.*

Overall		
12,700 SF Center	1,500 SF minimum	
19,800 SF Center	2,700 SF minimum	
27,800 SF Center	3,800 SF minimum	

This space will be divided into separate areas for billiards, pingpong, and electric games according to popularity and local equipment.

Space/Unit

Billiard tables (standard 9'x4'-6")	215 SF
Pingpong (9'x5' table)	250 SF
Electric games	vary

(4) *Relationships.* Locate activity near the control center for equipment distribution and surveillance.

Because food and drinks from the snack bar or vending machines are a source of damage to the equipment, locate pool tables and electric games away from these areas.

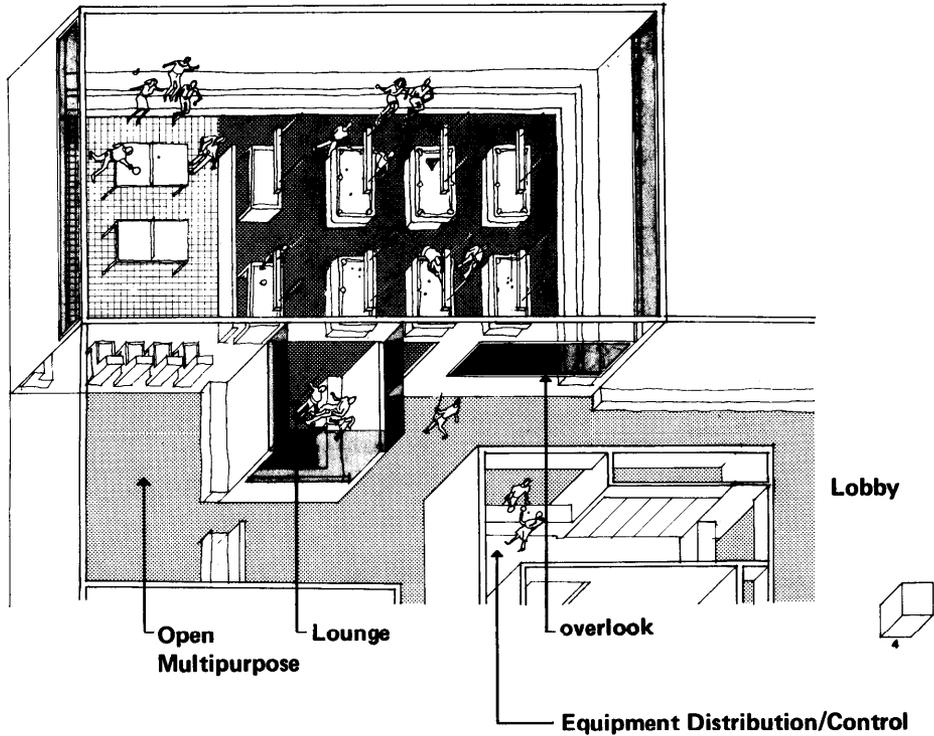


Figure 4-11 Active Games Area

Integrate overlooks, small conversation lounges or standing areas with the activity to accommodate spectators and people waiting to play.

(5) *Design Considerations.* Visual access to the outside is desirable but not mandatory since participants' attention is oriented to the games. Window openings should not produce glare on the tables. Glass areas must be protected from wild cue balls and sticks.

Spectator seating should define limits of the area and separate specific activities. Wide perimeter bench seating should be provided in at least two tiers to accommodate spectator seating in tournament situations and lounging during normal gaming.

Electric games must be securable when remote from the control center.

(6) *Technical Requirements*

(a) *Illumination*

Level 50 ftc
 Type fluorescent suspended over tables
 Control switched at control desk

(b) *Power*

Outlets Electric game area – wall receptacles, 1 every 4'; floor, every 10' o.c.
 General game – 1 every 20'
 Special clock outlet mtd 2' below ceiling

(c) *Plumbing*

None

(d) *H V A C*

Summer 78°DB; 65°WB; RH 50%
 Winter 65°-68°
 Air changes 15 per hour

(e) *Communications*

P/A 1 speaker station
 Sound 1 speaker station, each area
 3 headphone jacks in waiting area

(f) *Acoustics*

Noise criteria PNC 35-45
 Appropriate sound level 42-52 dB
 Ave coef of absorption 0.50-0.60

Transmission (STC) +60 dB

(g) *Critical Dimensions*

Room widths because of table sizes with clearance

Pingpong = 21' x 12'
 Billiards = 19'-6" x 12'-9"

(7) *Interior Requirements*

(a) *Equipment*

Billiard tables and racks
 Pingpong tables
 Electric games
 Other games
 All as required and provided by using service

(b) *Furniture*

Built-in lounge seats on perimeter

(c) *Finish Suggestions*

Walls fabric covered acoustical panels
 Floors carpet, except pingpong
 Ceilings exposed structure, painted

(d) *Colors*

Walls off -white
 Accent warm primary accent colors

4-4 SMALL GROUP ACTIVITIES (continued)

b. TELEVISION LOUNGE.

(1) *Function.* To house TV viewing areas and reduce conflict with other activities. Activities are watching and listening to television, quietly conversing and engaged in small group meetings.

(2) *Participants.* One to 50 people standing, sitting, intently or casually watching and listening to TV.

(3) *Size.*

Overall

12,700 SF Center	750 SF minimum
19,800 SF Center	1,000 SF minimum
27,800 SF Center	1,250 SF minimum
Space/Unit	10 SF per viewer

(4) *Relationships.* The television viewing area should be located away from noisy activities such as billiards, pingpong, electric games, music practice, and special interest, but in a variety of settings throughout the Center.

A minimum of two lounges should be provided or, if possible, at least one lounge for each local television station.

The entrance to the TV space should be open to the transition area and should encourage casual observation of the activity prior to entering the lounge.

(5) *Design Considerations.* TV lounges must facilitate a flexible and informal arrangement of

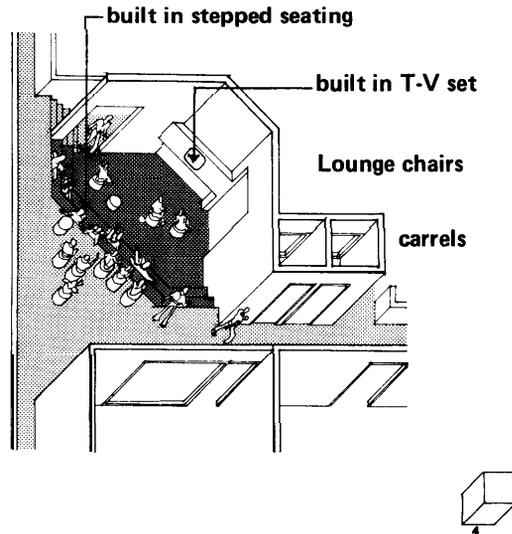


Figure 4-12 Television Lounge

furniture which will also serve for small group meetings and game areas.

Circulation paths should not occur in front of the screen; do not use two or more sets in the same area.

Consideration should be given to the installation of small sound clouds, baffles, or panels to assist in the reduction of sound transfer from the area.

The focal point of the area should be the screen; attention should be given to sight lines (vertically and horizontally) of viewers to the screens.

(6) Technical Requirements

(a) Illumination

Level 10 ftc
Type incandescent area
Control local switch with dimmer

(b) Power

Outlets 1 per set
1 per lounge area
Special antenna hook-up

(c) HVAC

Summer 78°DB; 65°WB; RH 50%
Winter 68°-72°
Air changes 20 per hour

(d) Communications

P/A 1 station
TV antenna jack

Requirements for Educational TV Service and/or central control system for volume and channel selection should be coordinated with the using service.

(e) Acoustics

Noise criteria PNC 30
Sound level 38 dB
Ave coef of absorption 0.40-0.50
Transmission (STC) +50-60 dB

(7) Interior Requirements

(a) Equipment

Televisions

(b) Furniture

Built-in perimeter bench seating,
movable lounge chairs

(c) Finish Suggestions

Walls fabric or wood slat covered
acoustical panels
Floors carpet
Ceiling acoustical tile

(d) Colors

Walls charcoal or cool accent
colors
Accent warm primary or contemporary
accent colors

4-4 SMALL GROUP ACTIVITIES (continued)

c. TABLE GAME AREAS.

(1) *Function.* These areas house quiet activities in an informal space that encourages informal participation in or observation of card games, table games, tournaments, meetings, group discussions, classes, reading, or listening to records or tapes over the sound system.

(2) *Participants.* Two or four persons per table. The number of observers varies. 30 or more people may be participating in meetings.

(3) *Size.*

Overall		
All Centers	Small game area	150 SF
	Large game area	600 SF
Space/Unit	15 SF per participant-Lounge	
	20 SF per participant-Table	

(4) *Relationships.* Locate cards and games area near pantry and vending and remote from noise generating activities such as billiards, pingpong, electric games and music practice.

(5) *Design Considerations.* The need for a direct visual link to the outside is not as important as the opportunity for casual observation of the transitional area or other nearby activities.

In small facilities, cards and games must be accommodated in an area that is suitable for other activities.

In facilities larger than 12,700 SF, the card and game area can respond more directly to its

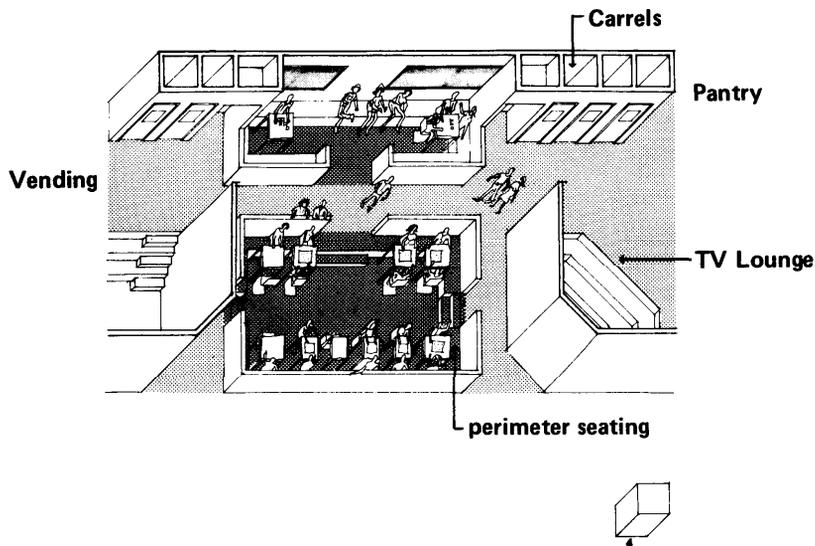


Figure 4-13 Table Game Area

primary use. This area should depend on low partitions, built-in seating and changes in level, material and color to separate it from compatible activities. The built-in perimeter seating reduces the need for loose chairs, acts as a protective base for the wall and is suitable to any arrangement of tables and chairs; it also acts as an elevated platform for speakers during meetings, and as a display surface during exhibits. Secure storage must be provided for chairs, blackboards, and audio-visual equipment used during meetings.

Design should facilitate circulation and personal interaction.

(6) Technical Requirements

(a) Illumination

Level 30 ftc on table surface; 10 ftc general
Type incandescent task, fluorescent general
Control local switch with dimmer

(b) Power

Outlets 1 per wall
Special clock outlet mtd 2' below ceiling

(c) HVAC

Summer 78°DB; 65°WB; RH 50%
Winter 68°-72°
Air changes 15 per hour

(d) Communications

P/A 1 station
Sound 1 speaker station; 1 headphone jack every 6' of partition

(e) Acoustics

Noise criteria PNC 30
Sound level 38 dB
Ave coef of absorption 0.30-0.40
Transmission (STC) +45 dB

(7) Interior Requirements

(a) Equipment

None

(b) Furniture

Tables, movable lounge chairs, built-in seating

(c) Finish Suggestions

Walls painted drywall
Floors acoustical tile

(d) Color

Walls off-white or light tints
Accents cool contemporary or primary accent colors

4-4 SMALL GROUP ACTIVITIES (continued)

d. OPEN MULTIPURPOSE AREA

(1) *Function.* This space houses project activities so that litter and debris are controlled and not permitted to interfere with other areas. Activities include informal participation in hobbies, sewing, newsletter publications, decorations, special projects such as program prop construction or audio-visual presentations, classes and program planning sessions.

(2) *Participants.* Up to thirty people sitting at tables, working on individual or group projects.

(3) *Size.*

Overall

Small open multipurpose area 150 SF
 Large open multipurpose area 600 SF

Storage 10% of floor area

Space/Unit 25 SF per participant

(4) *Relationships.* The entrance into the area should encourage casual observation of the activity by patrons in the transitional area. It should be located near the staff workroom and the control desk.

(5) *Design Considerations.* General planning for this activity should maintain flexibility to facilitate a variety of work area arrangements. The hobby area must also accommodate other activities; therefore, the sink, cleanup and storage areas should be minimized and separate from the main space.

Consideration should be given to the use of exposed joists in the ceiling to facilitate the use of inexpensive display lighting that can clamp onto the structure wherever desired.

Cover the walls with material that will receive thumbtacks such as washable vinyl cork. Avoid

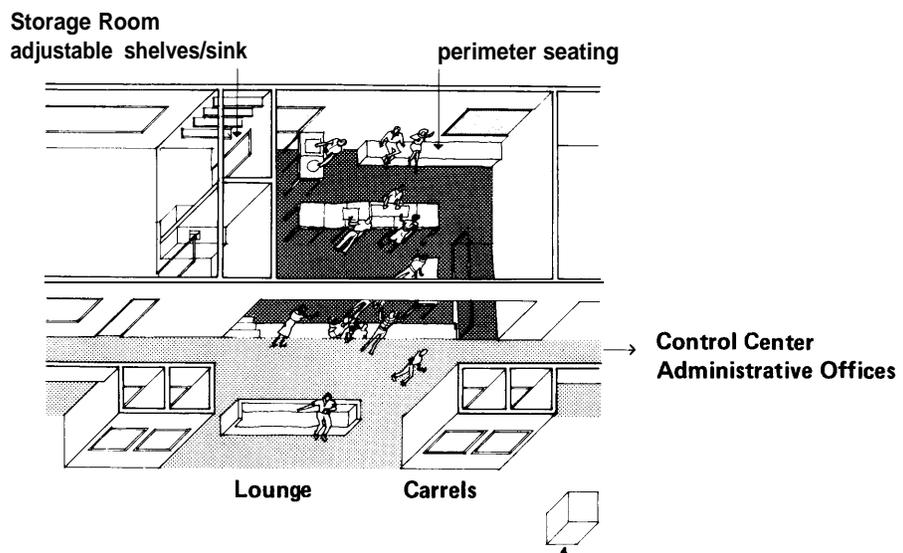


Figure 4-14 Open Multipurpose Area

the use of broken up wall panels or bulletin boards.

Perimeter built-in benches should also be considered for seating as well as for display purposes.

Provide securable storage for tables, chairs and supplies.

(6) *Technical Requirements*

(a) *Illumination*

Level 70 ftc, work surfaces; 30 ftc, display areas
 Type fluorescent task; light track for displays
 Control local switch with dimmer

(b) *Power*

Outlets 1 every 12' of partition
 Special clock outlet mtd 2' below ceiling

(c) *Plumbing*

Janitor's sink

(d) *H V A C*

Summer 78°DB; 65°WB; RH 50%
 Winter 68°-72°
 Air changes 6 per hour

(e) *Communications*

P/A 1 station
 Sound 1 speaker station; 3 head-phone jacks mtd 30" above floor

(f) *Acoustics*

Noise criteria PNC 35
 Sound level 42 dB
 Ave coef of absorption 0.30-0.40
 Transmission (STC) +45 dB

(7) *Interior Requirements*

(a) *Equipment*

Storage for chairs and tables
 12" shelves for supplies

(b) *Furniture*

Folding tables, stacking chairs, built-in perimeter seating

(c) *Finish Suggestions*

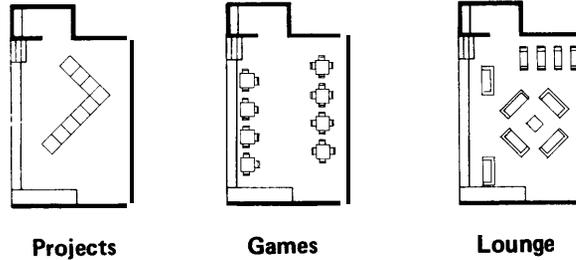


Figure 4-15 Open Multipurpose Space Alternative Use Plans

Walls tackable surface, vinyl or cork covered
 Floors sheet vinyl I or resin epoxy
 Ceiling exposed structure
 (d) *Colors*
 Walls off -white
 Accents primary accent colors and charcoal

4-4 SMALL GROUP ACTIVITIES (continued)

e. ENCLOSED MULTIPURPOSE AREA.

(1) *Function.* This space houses noisy activities and activities requiring acoustical privacy. These activities may include listening to records and tapes; taping combo practice, speakers or program presentations; participating in programs or meetings; or conferring in private.

(2) *Participants.* Up to 60 patrons listening to combo practice sessions; up to 75 involved in private meetings.

(3) *Size.*

Overall

Small enclosed multipurpose area 150 SF

Large enclosed multipurpose area 600 SF

Storage 10% of floor area

Space/Unit 20 SF per participant

8 SF per spectator

(4) *Relationships.* These activities generate more noise than any other and must not interfere with administrative offices or quiet activities such as reading, writing, listening, conversing, phoning, meeting, or viewing television. However, this space should be near the control center for distribution of instruments.

Since this activity attracts onlookers, develop the entries to invite the casual passerby to stand and watch the event before deciding to enter or move on.

(5) *Design Considerations.* The enclosed multipurpose spaces require sufficient glazing to allow surveillance of the activity inside by staff personnel and passersby. The large space must accommodate informal instruction as well as small scale planned or spontaneous presentations with informal audiences.

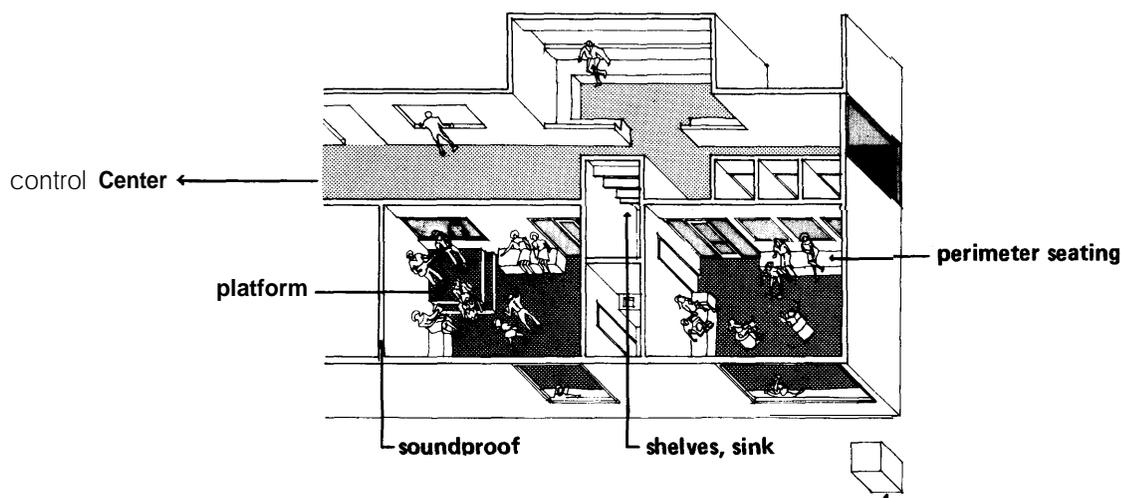


Figure 4-16 Enclosed Multipurpose Area

These spaces must be soundproof. The HVAC system should not act as a transmitter of noise to other areas of the Center; sound baffles should be used in the system to handle this potential problem. Also, partition construction systems should be designed to continue through to roof construction to minimize sound transmission over and through the walls. Interior glazing should be designed to assist sound attenuation.

Changes in level and material should define platforms to accommodate viewers and players interchangeably. Built-in perimeter bench seating should be incorporated into the design.

Exterior windows are desirable.

(6) Technical Requirements

(a) Illumination

Level 30 ftc
 Type area fluorescent
 Control local control with dimmer

(b) Power

Outlets 1 every 12' of partition
 Special clock outlet mtd 2' below ceiling

(c) HVAC

Summer 78°DB; 65°WB; RH 50%
 Winter 68°-72°
 Air changes 15 per hour

(d) Communications

P/A 1 station
 Sound 1 speaker

(e) Acoustics

Noise criteria PNC 30
 Sound level 50 dB
 Ave coef of absorption 0.30-0.40
 Transmission (STC) +50-60 dB
 Reverberation time 1.4-1.6

(f) Critical Dimensions

Ceiling height 15' to 20'.
 Room ratio 1(H):1.25(W):1.60(L)

(7) Interior Requirements

(a) Equipment

Secure storage area for chairs and equipment

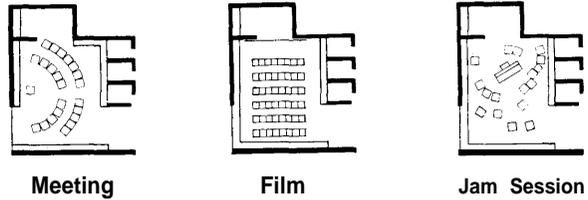


Figure 4-17 Enclosed Multipurpose Space Alternative Use Plans

(b) Furniture

Stacking chairs, folding tables

(c) Finish Suggestions

Walls fabric or wood covered
 acoustical panels
 Floors carpet
 Ceiling exposed structure

(d) Colors

Walls off-white
 Accents cool and warm primary colors

4-4 SMALL GROUP ACTIVITIES (continued)

f. TELEPHONE LOUNGE.

(1) *Function.* This lounge houses a twenty-four-hour telephone facility for use by all personnel. Activities are generally limited to telephoning, involving either short or prolonged conversation, and waiting for calls or for friends to complete calls.

(2) *Participants.* Individuals occasionally accompanied by friends waiting; 5 to 15 people.

(3) *Size.*

Overall	Lounge	No. of Phones
12,700 SF Center	100 SF	3
19,800 SF Center	200 SF	6
27,800 SF Center	300 SF	8

(4) *Relationships.* Locate the telephone lounge adjacent to and immediately accessible to the main entrance and the ITT office. The telephone lounge should have access to the exterior for twenty-four-hour service, but should be secured from the remainder of the facility after hours.

(5) *Design Considerations.* Integrate several telephones with seating to create a living room atmosphere in facilities larger than 12,700 SF. Telephone booths should be provided to accommodate private conversations. At least one phone booth should be planned to permit use by an individual in a wheelchair.

The area should be planned to facilitate visual supervision of the activity both from inside and

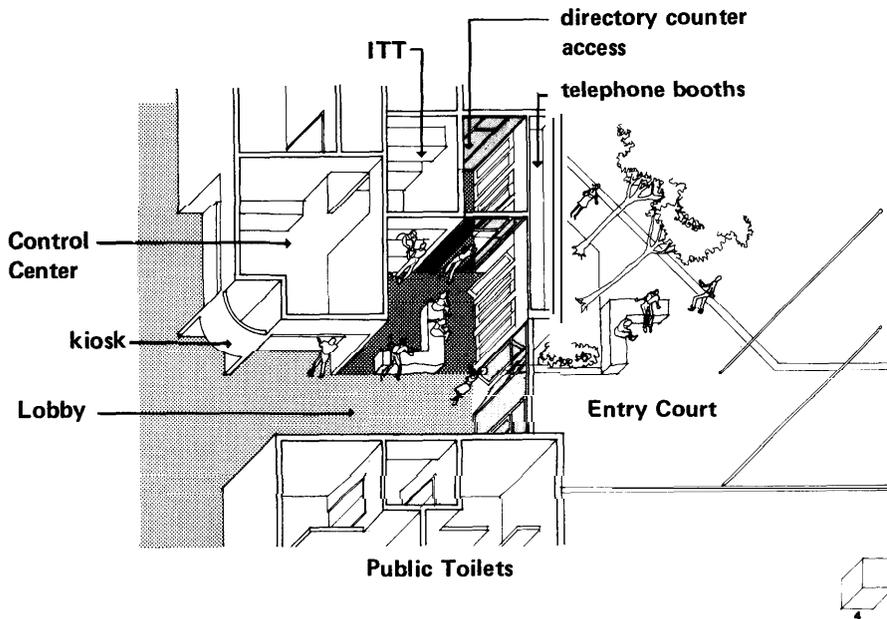


Figure 4-18 Telephone Lounge

outside the building. Provide telephone booths, storage for local and several out-of-state directories and built-in seating. Telephone booths should have washable wall surfaces so that graffiti can be washed off periodically.

(6) Technical Requirements

(a) Illumination

Level 30 ftc, booths; 10 ftc,
 lounges
Type direct fluorescent task,
 warm white
Control switch at control desk

(b) Power

Outlets 1
Special clock outlet mtd 2' below
 ceiling, visible from booths

(c) HVAC

Summer 78°DB; 65°WB; RH 50%
Winter 68°
Air changes 6 per hour

(d) Communications

Phones separate from Center's
 phones
Sound 1 speaker

(e) Acoustics

Noise criteria PNC 30
Sound level 30 dB
Ave coef of absorption 0.40-0.50
Transmission (STC) +35 dB

(7) Interior Requirements

(a) Equipment

Phone booths as provided by Telephone
Company

(b) Furniture

Built-in lounge seating

(c) Finish Suggestions

Walls painted drywall
Floor carpet
Ceiling acoustical tile

(d) Colors

Walls primary colors
Accents white or black

4-4 SMALL GROUP ACTIVITIES (continued)

g. CARRELS.

(1) *Function.* Carrels provide a private environment where individuals may pursue activities without interference from other people or activities. These activities include reading, writing, listening to records and tapes, daydreaming, and conversing. These activities are usually individually oriented, introspective, and non-interactive.

(2) *Participants.* Usually limited to individuals. Occasionally two or more people conversing privately.

(3) *Size.*

All Centers 30 SF minimum

12,700 SF Centers 4, minimum number

19,800 SF Centers 8, minimum number

27,800 SF Centers 12, minimum number

(4) *Relationships.* Locate carrels to maintain visual link to the center of the central program area and provide the opportunity to overlook other activities.

(5) *Design Considerations.* Carrels house

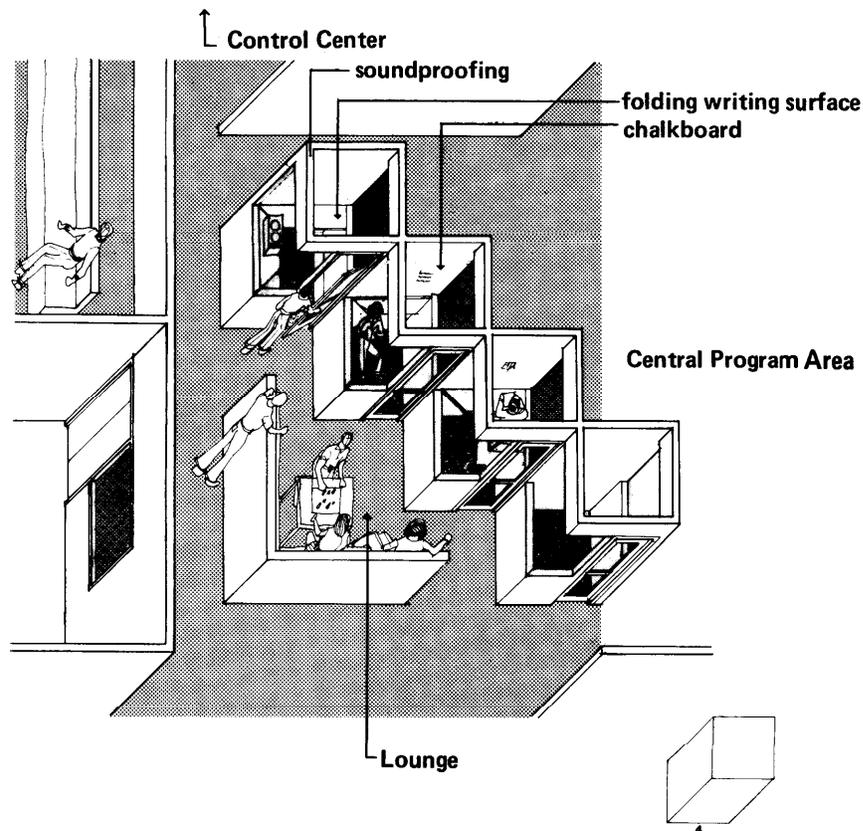


Figure 4-19 Carrels

both quiet and noisy activities and should therefore be enclosed and insulated for sound, accommodating the requirements of its highest potential use. Window cut-outs and entries should be used to create views from the carrels; these will also allow surveillance of the activity.

Provide chalkboards or washable wall coverings, suitable to drawing with felt tip pens to provide surfaces for graffiti. This device should be used to create a desirable outlet for what is otherwise considered to be a destructive personalization of space.

All speakers and sound system components should be built-in and flush-mounted. Consideration should be given to procurement of prefabricated "sound modules" currently available commercially through several manufacturers of library and school equipment.

(6) Technical Requirements

(a) Illumination

Level 30 ftc on tables
 Type incandescent task
 Control local switch with dimmer

(b) Power

Outlets 1 per carrel mtd at counter height

(c) HVAC

Summer 78°DB; 65°WB; RH 50%
 Winter 65° - 68° 65
 Air changes 15 per hour

(d) Communications

P/A 1 station per carrel
 Sound 1 multi-channel selector and headphone jack for each carrel

(e) Acoustics

Noise criteria PNC 10-20
 Sound level 20-30 dB
 Ave coef of absorption 0.40-0.50
 Transmission (STC) +50-60 dB

(f) Minimum Dimensions

5'-6" width

(7) Interior Requirements

(a) Equipment

Sound equipment, sound modules (coordinate with using service)

(b) Furniture

Lounge chairs, writing surface

(c) Finish Suggestions

Walls fabric-covered acoustical panels and chalkboards
 Floors carpet
 Ceilings acoustical tile

(d) Color

Walls sandstone, soft gray, or charcoal
 Accents cool primary accent colors

4-4 SMALL GROUP ACTIVITIES (continued)

h. SPECIAL INTEREST AREA,

(1) *Function.* This space houses special interest programs such as classes, clubs, and coffeehouse activities so that they may function at hours when the remainder of the facility is closed as well as when it is open. The activities include hobbies, such as coin collecting, ski club, etc.; wives' club meetings; coffeehouse activities such as rap sessions; small group entertainment presentations; and snack preparation and service.

(2) *Participants.* Small groups of two to sixty; meetings of from twenty to sixty.

(3) *Size.*

19,800 SF & 27,800 SF Centers

Meetings	Office	Storage
1000 SF	100 SF	100 SF

(4) *Relationships.* Locate adjacent to and immediately accessible to lobby and outside and toilets. It must be designed to operate on hours independently of the remainder of the Center.

(5) *Design Considerations.* This space must be able to accommodate a complete change in decor to correspond with unique programs. These activities are independent of other Center activities and are potentially noisy. The area should be completely partitioned and insulated for sound.

Special interest programs require a storage area and one independent program office for a full-time staff member. The office should be adjacent to the special interest room and have control of the storage room.

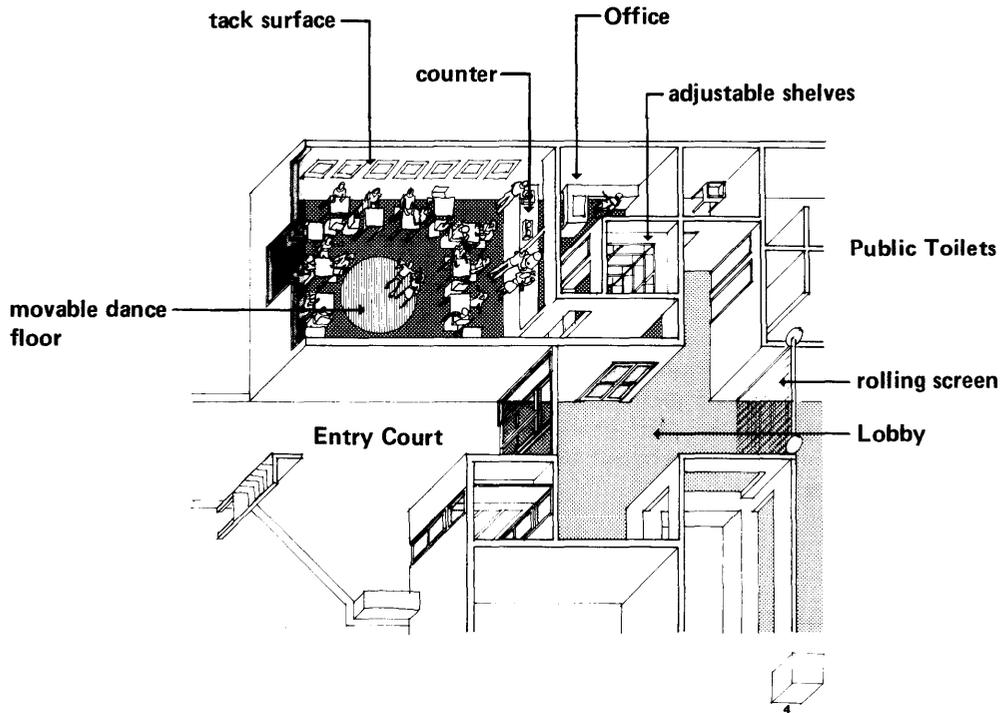
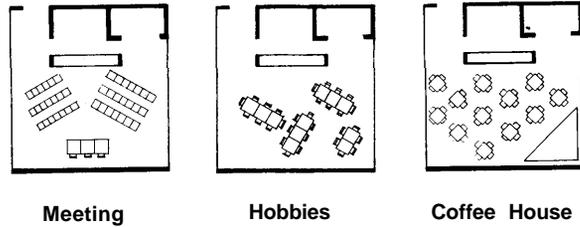


Figure 4-20 Special Interest Area

These activities do not require visual access to the outside.

A counter should be provided for secure placement of turntables, tapes and amplifier equipment, and separate internal sound and P/A system to serve only the special interest area.



(6) *Technical Requirements*

(a) *Illumination*

Level 30 ftc
 Type incandescent light track
 Control local switch with dimmer

(b) *Power*

Outlets 1 every 12' wall space, on service counter
 Special clock outlet mtd 2' below ceiling
 ceiling outlets use extra circuit of light track

(c) *Plumbing*

Double sink
 Coffee and espresso makers

(d) *HVAC*

Summer 78°DB; 68°WB; RH 50%
 Winter 68°
 Air changes 15 per hour

(e) *Communications*

P/A 1 speaker station at service counter and office
 Phones desk set in office
 Sound 3 speaker stations; head-phone jacks every 6'; separate system from Center's console system provided by using service; microphone jacks spaced as required by using service

(f) *Acoustics*

Noise criteria PNC 30
 Sound level 42 dB
 Ave coef of absorption 0.30-0.40
 Transmission (STC) +50-60 dB

(7) *Interior Requirements*

(a) *Equipment*

Espresso machine; popcorn maker; hot

Figure 4-21 Special Interest Area Alternative Use Plans

plates, stereo cabinets and equipment – supplied by using service; service counter with securable storage cabinets

(b) *Furniture*

Built-in lounge seating; movable lounge seating; stackable chairs and tables; movable presentation platform

(c) *Finish Suggestions*

Walls painted drywall with vinyl covered tack surfaces and picture railing

Floor carpet
 Ceiling exposed structure

(d) *Colors*

Walls off -white
 Accents primary accent colors

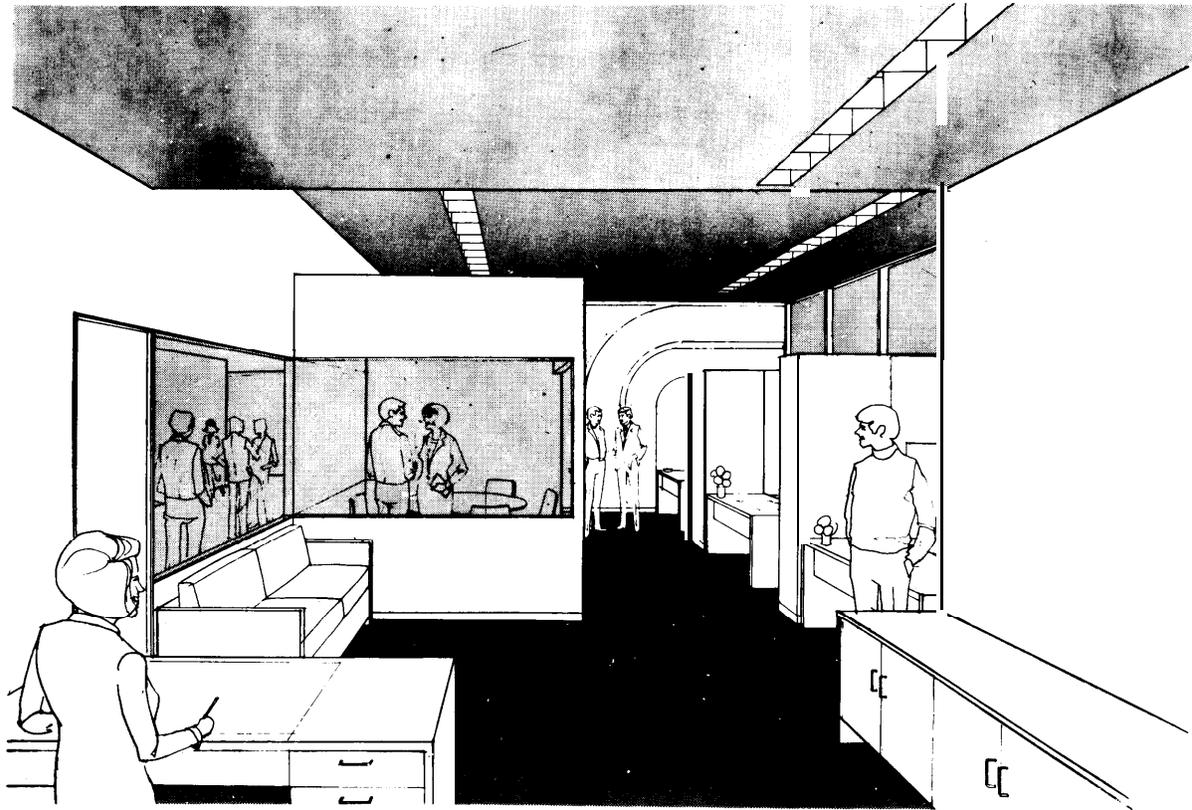


Figure 4-22 **Administrative Activities**

4-5 ADMINISTRATIVE ACTIVITIES

a. CONTROL CENTER.

(1) *Function.* The control center serves as the general information office, the equipment storage and distribution point, the area from which the recreation staff maintain visual control over the activities of the facility and operate the P/A system, TV and record/tape control.

The activities involve the staff conversing with users, distributing equipment, observing other activities and participants, operating the P/A and sound system, and coat checking during large group activities.

(2) *Participants.* A varying number of patrons waiting to be served and one to three staff members.

(3) *Size.*

Overall	Counter	Storage
12,700 SF Center	150 SF	250 SF
19,800 SF Center	300 SF	350 SF
27,800 SF Center	400 SF	400 SF

(4) *Relationships.* The control center should be adjacent to and visible from the entrance lobby and administrative offices.

It should be near the central program area, pantry and telephones, all activities requiring distribution of equipment, public toilets and janitor's closet.

(5) *Design Considerations.* Primary activities are oriented to the interior of the building and

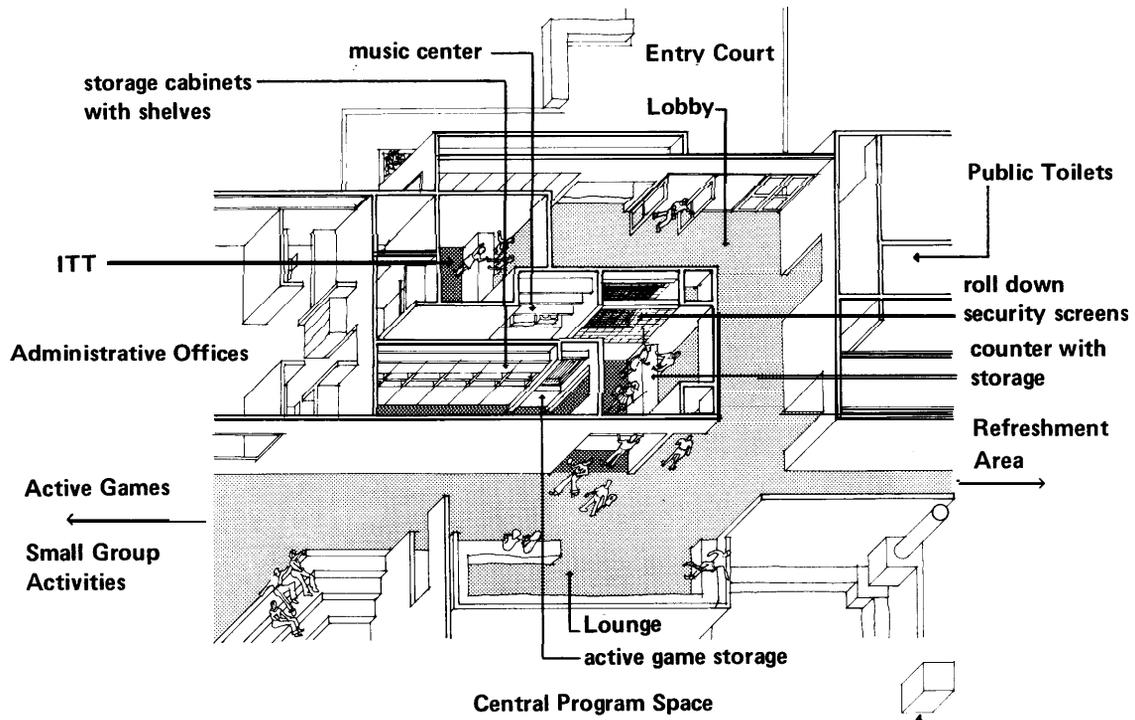


Figure 4-23 Control Center

do not require exposure to the outside or natural light.

Provide a counter in view of the main desk for permanently mounted P/A system, record and tape players with storage for records and tapes. Provide an additional counter for distribution of supplies and equipment. This distribution counter must accommodate a stool and knee space for comfortable seating and a counter pass-through for heavy equipment.

Since both public and staff activities focus on this counter, arrange all equipment and storage areas to facilitate counter accessibility.

Centers of 12,700 SF or less should include a worktable for preparation of posters, etc.

In addition to the partitioned securable storage rooms, the entire area including service counters must also be securable.

(6) Technical Requirements

(a) Illumination

Level 40 ftc on counter surface
 Type incandescent direct task
 Control local switch

(b) Power

Outlets 1 per 12'
 Special clock outlet mtd 2' below ceiling above counter

(c) HVAC

Summer 78°DB; 65°WB; RH 50%
 Winter 65°-68°
 Air changes 6 per hour

(d) Communications

P/A main station
 Phones desk set
 Sound main station

(e) Acoustics

Noise criteria PNC 30
 Sound level 0.20-0.30
 Ave coef of absorption +43 dB
 Impact noise rating +5

(7) Interior Requirements

(a) Equipment

P/A system console
 Record/tape system console

(b) Furniture

Built-in counter, stools, worktables

(c) Finish Suggestions

Painted or vinyl-covered drywall

(d) Colors

Walls primary accent colors
 Accents white or black

(e) Storage Requirements

The following represents an example of typical control center storage requirements; actual requirements must be coordinated with using service:

- Books and directories
- Headphones
- Letter writing supplies
- Typewriters
- Table games
- Tape recorders
- Pool and pingpong equipment
- Projectors
- Microphones
- Prop preparation equipment
- Tools
- Broken equipment
- Coat storage – 300 people
- Music equipment:
 - 2 Drum sets complete with cymbals
 - 2 Bongo drums
 - 1 Conga drum
 - 6 Electric guitars
 - 2 Electric bass guitars
 - 6 Electric guitar amplifiers w/microphones
 - 2 Electric bass guitar amplifiers
 - 1 Trumpet
 - 1 Alto saxophone
 - 2 Banjos
 - 6 Acoustical guitars
 - 1 Electric organ
 - 1 Accordion
 - 1 Autoharp
 - Assorted number of rhythm instruments
 - Reeds, drumsticks, replacement strings
 - Miscellaneous equipment

4-5 ADMINISTRATIVE ACTIVITIES (continued)

b. ADMINISTRATIVE OFFICES.

(1) *Function.* The administrative offices provide work and conference space for Recreation Center staff. The activities include working individually, consulting, meeting, lounging, preparing graphics and indirectly monitoring Center activities.

(2) *Participants.* Three to five staff members who, by training and profession, rely heavily on verbal communication with their associates and the people they serve. Other participants include enlisted personnel and volunteer personnel.

(3) *Size.*

Overall	Office	Meeting	Work	Storage
12,700 SF	Center 300	100	-	40
19,800 SF	Center 300	100	100	50
27,800 SF	Center 500	125	150	75

Space/Unit 100 SF per office + central work area storage = 10% of floor area

(4) *Relationships.* The administrative offices should be adjacent to and immediately accessible to the control center, information tour and travel, and the lobby.

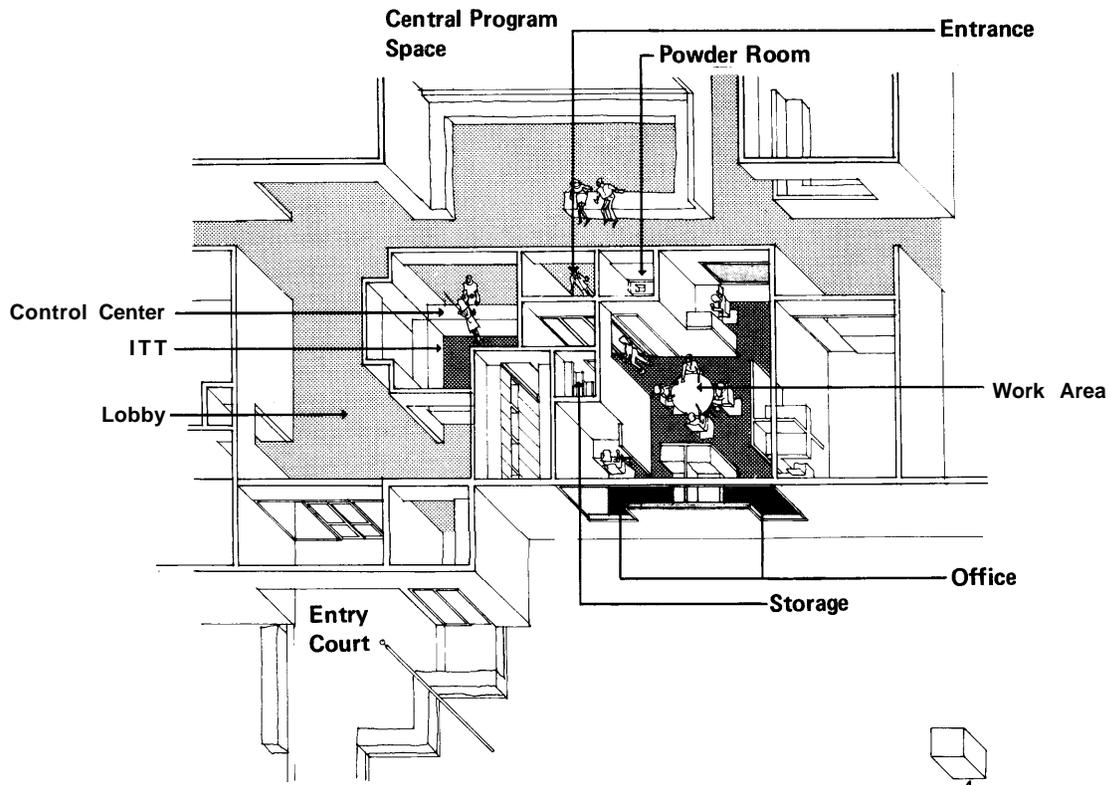


Figure 4-24 Administrative Offices

Internally, the offices should surround a central work and meeting area; the storage areas and powder room should be adjacent to and immediately accessible to the offices and work area. The office area should be entered directly from the transitional area through the central work area.

(5) *Design Considerations.* An open plan layout should be used to enhance the ease of communication throughout the area. Individual work areas should be separated from each other by storage and files and should focus on a common area which serves as a lounge or informal conference room.

A staff workroom should be included in facilities larger than 12,700 SF as additional space becomes available for preparation of visual aids, posters, charts, etc. This area requires layout table space as well as storage or access to storage for art supplies.

The area must have a clearly defined public entrance, must be securable and should be served by a private staff lavatory.

Monitoring of adjacent activities from the offices should be facilitated. Provide window in principal office areas for outside view and natural light. Orient glass to avoid glare from morning and afternoon sun.

The administrative office must accommodate a desk, chair, files, and visitors' seating for each full-time staff member. The lounge area must accommodate the placement of comfortable chairs, a sofa, and coffee table.

Storage must provide for staff member coats and personal effects as well as general office supplies.

(6) *Technical Requirements*

(a) *Illumination*

Level 70 ftc, work surface; 30 ftc, lavs
Type fluorescent; incandescent in mtg areas
Control local switched

(b) *Power*

Outlets 1 per wall in each office
Special clock outlet in central area

(c) *Plumbing*

W.C.
Lavatory

(d) *H V A C*

Summer 78°DB; 65°WB; RH 50%
Winter 68°-72°
Air changes 8 per hour

(e) *Communications*

P/A 1 station
Phones 1 at each desk
Sound 1 speaker

(f) *Acoustics*

Noise criteria PNC 30-40
Sound level 34-37 dB
Ave coef of absorption 0.30-0.40
Transmission (STC) +43 dB

(7) *Interior Requirements*

(a) *Equipment*

Office machines, Xerox, duplication (provided by using service)

(b) *Furnishings*

Desks and chairs, file cabinets, work tables, lounge chairs, sofa

(c) *Finish Suggestions*

Walls painted drywall
Floors carpet
Ceilings acoustical tile

(d) *Colors*

Walls off -white
Accents cool primary accent colors

4-5 ADMINISTRATIVE ACTIVITIES (continued)

c. INFORMATION TOUR & TRAVEL (ITT).

(1) *Function.* ITT houses the following activities: ticket dispensing, consulting with staff, planning trips, looking at maps, making reservations, viewing rearview projection presentations and conversing in small groups.

(2) *Participants.* One or two staff members and a variable number of people reading available information or seeking assistance.

(3) *Size.*

Overall	Counter	Office	Lounge
12,700 SF	Center 50 SF	-	-
19,800 SF	Center 50 SF	-	60 SF
27,800 SF	Center 50 SF	100 SF	60 SF
Space/Unit	100 SF per office		
	15 SF per user at lounge/counter		

(4) *Relationships.* All ITT areas should be adjacent to and immediately accessible to lobby and telephones.

In facilities of 12,700 SF or less, ITT is consolidated with the control center.

(5) *Design Considerations.* In facilities larger than 12,700 SF, the ITT area is treated as a lounge and office associated with, but separate from, administrative offices. These offices offer the only consolidated recreation information and travel services available for the entire installation. They require securable administrative areas and service counter areas which can accommodate, as a minimum, the following: two file cabinets, a safe, a desk and chair, a counter stool, secure storage of audio-visual

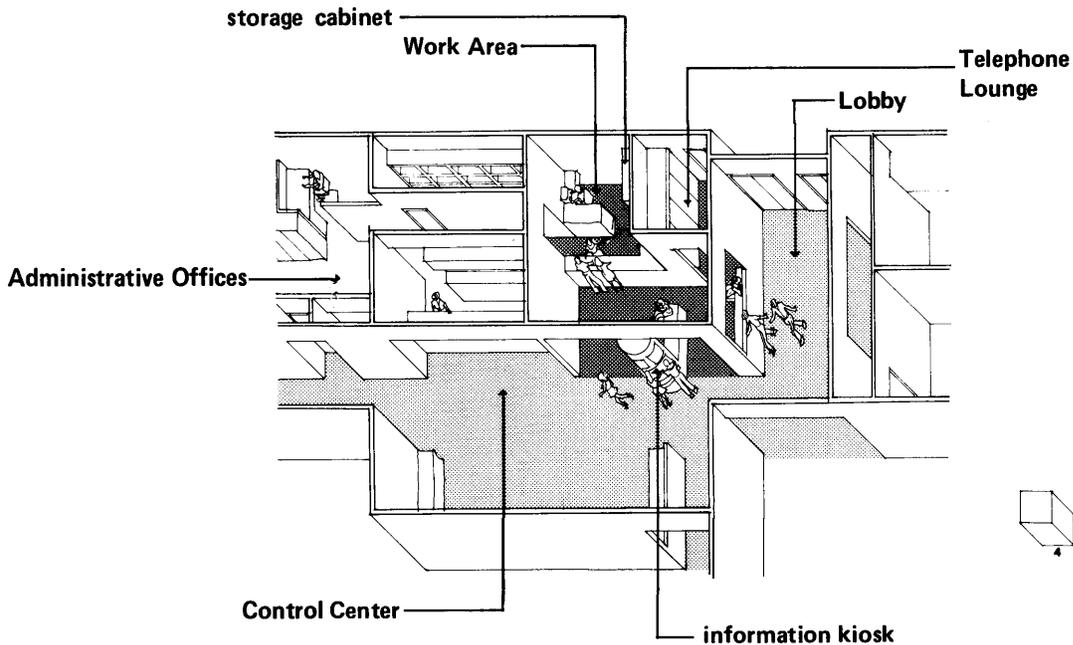


Figure 4-25 Information, Tour & Travel

display equipment, an adding machine, and typewriter stand.

A lounge area adjacent to the administrative counter is required in the ITT office, which should be open to the transitional area and will accommodate the following: kiosks, literature racks, poster displays, and serve as a waiting area for patrons seeking the services of ITT staff.

All ITT areas should be planned to allow casual observation of magazines and posters without requiring verbal contact with a staff member.

(6) *Technical Requirements*

(a) *Illumination*

Level 30 ftc, counter; 10 ftc,
 lounge
Type incandescent task
Control local, switch behind counter

(b) *Power*

Outlets 1 every 12'
Special 1 per kiosk

(c) *HVAC*

Summer 78°DB; 65°WB; RH 50%
Winter 68°
Air changes 10 per hour

(d) *Communications*

P/A 1 station in lounge
Phones desk set – 1 class "A" line
Sound 1 speaker station in lounge

(e) *Acoustics*

Noise criteria PNC 30-40
Sound level 42 dB
Ave coef of absorption 0.30-0.40
Transmission (STC) +40 dB

(7) *Interior Requirements*

(a) *Equipment*

2 securable file cabinets; safe, securable storage of audio-visual display equipment including rear projection slide viewers and screens; adding machines. Provisions for teletype may be required,

(b) *Furniture*

Lounge chairs, stools behind counter, built-in counter, desk and chair, counter

stool, typewriter stand.

(c) *Finish Suggestions*

Walls painted drywall
Floors carpet
Ceiling acoustical tile

(d) *Colors*

Walls warm primary colors
Accents white, black or charcoal

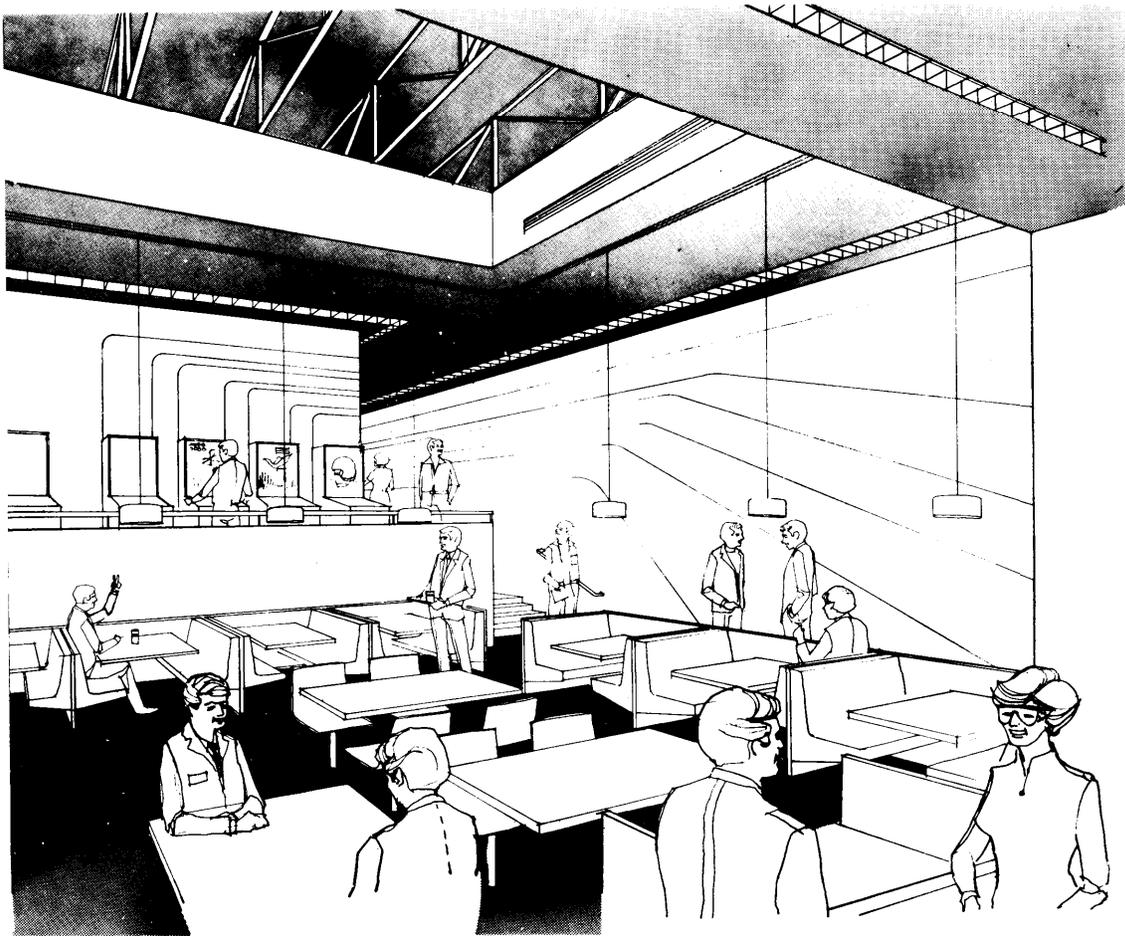


Figure 4-26 Refreshment Activities

4-6 REFRESHMENT ACTIVITIES

a. VENDING AREA.

(1) *Function.* The vending area houses machines which dispense food and electric games which are operated by AAFES. Activities include purchasing and consuming snack meals from permanent vending facilities; informally conversing and gaming.

(2) *Participants.* 28 to 38 people sitting and eating; varying numbers using the electric game machines.

(3) *Size.*

Overall	Dining	Vending	Game
12,700 SF Center	500	200 SF	150 SF
19,800 SF Center	1,075	325 SF	250 SF
27,800 SF Center	Either Snack Bar or Amusement Center		
Space/Unit	15 SF per participant seated + machine area		

(4) *Relationships.* The vending area should

be located near the lobby so that customers can visit the Recreation Center for the sole purpose of obtaining snacks and beverages. However, the customer should be able to see other recreation activities taking place so that interest may be aroused. The snack area should be visible and directly accessible from the central program area.

Functionally, the vending area should be near the toilet rooms and immediately off a service area to permit delivery of material and trash removal.

The vending area should be remote from the active game area to reduce food and drink damage to equipment.

Internally, the vending machine area should face the dining area and the game area to permit consumption at both tables and at games.

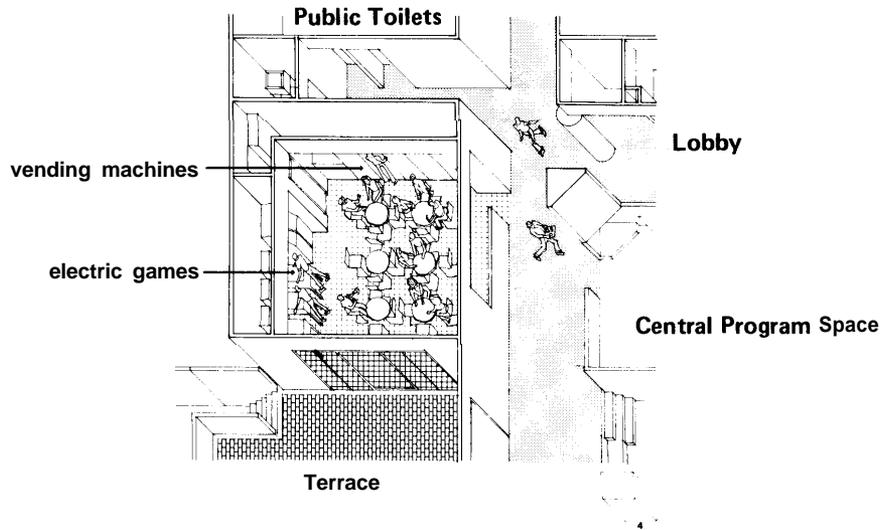


Figure 4-27 Vending Area

(5) *Design Considerations.* The eating area of this space should not be merely utilitarian. Its atmosphere should provide opportunities for relaxed small group interaction over food. The machine area should be planned to minimize traffic and noise conflicts with the eating area. Orient the eating area to take advantage of natural light and exterior views.

HQ AAFES Engineering Division should be requested to participate in the coordination of food service activities during the preliminary or concept stage of planning. Requests for coordination should be directed to HQ AAFES, Attn: EN-A, Dallas, Texas 75222. AAFES will provide detailed Furniture and Food Equipment layouts with an equipment list stating power and utility requirements. General guidance on technical requirements and interior requirements follows.

(6) *Technical Requirements*

(a) *Illumination*

Level 30 ftc
 Type incandescent; direct over machines, indirect over tables
 Control local switch with dimmer

(b) *Power*

Outlets 1 per wall; 1 per vending machine and game machine; each machine @ 115v 60c 1 PH
 Special clock outlet mtd 2' below ceiling
 Total electric load
 12,700 SF Centers = 115 amps
 19,800 SF Centers = 165 amps
 (coordinate with AAFES)

(c) *Plumbing*

Slop sink in storage area
 Cold water line to vending machine
 (coordinate with AAFES)

(d) *HVAC*

Summer 78°DB; 65°WB; RH 50%
 Winter 65°-70°
 Air changes 20 per hour

(e) *Communications*

P/A 1 station

(f) *Acoustics*

Noise criteria PNC 35-45
 Sound level 42-52 dB
 Ave coef of absorption 0.30-0.40
 Transmission (STC) +43 dB

(g) *Critical Dimensions*

12,700 SF Centers = 28'-0" x 30'-0"
 19,800 SF Centers = 32'-6" x 35'-0"

(7) *Interior Requirements*

(a) *Equipment*

See diagram (coordinate with AFFES)

(b) *Furniture*

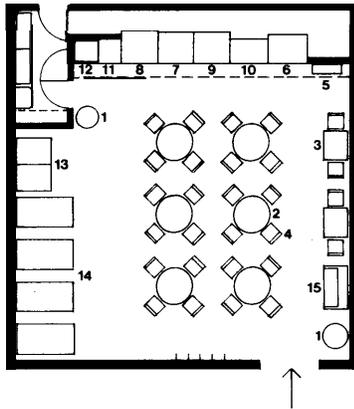
See diagram (coordinate with AAFES)

(c) *Finish Suggestions*

Walls vinyl covered drywall
 Floors vinyl covered or epoxy resin
 Ceiling exposed structure or acoustical tile

(d) *Colors*

Walls off-white
 Accent cool and warm primary colors



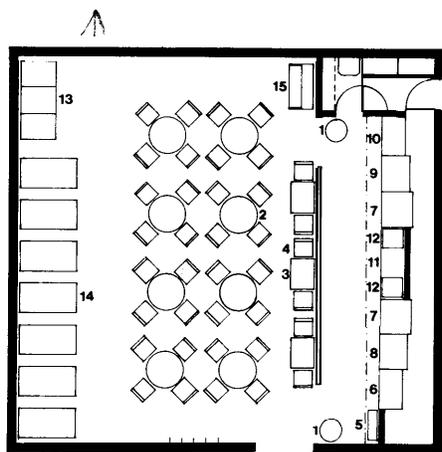
FURNITURE & EQUIPMENT SCHEDULE – 12,700 SF CENTER

Utility Requirements

- | | | |
|-----------------------------------|---|----|
| 1. Trash Receptacle | | |
| 2. Dining Table | | |
| 3. Dining Table | | |
| 4. Chairs | | |
| 5. Coin/BillChanger | E | |
| 6. Vending Machine/Candy | E | |
| 7. Vending Machine/Coffee | E | CW |
| 8. Vending Machine/All-Purpose | E | |
| 9. Vending Machine/Cold Drinks | E | CW |
| 10. Vending Machine/Multi-Product | E | |
| 11. Condiment Unit | E | |
| 12. Microwave Oven | E | |
| 13. Skill Machines (2) | E | |
| 14. Pinball Machines (4) | E | |
| 15. Juke Box | E | |

CODE: E = Electricity
 CW = Cold Water

Figure 4-28 Vending Area – 12,700 SF Center Furniture & Equipment Layout



FURNITURE & EQUIPMENT SCHEDULE – 19,800 SF CENTER

Utility Requirements

- | | | |
|------------------------------------|---|----|
| 1. Trash Receptacle | | |
| 2. Dining Table | | |
| 3. Dining Table | | |
| 4. Chairs | | |
| 5. Coin/BillChanger | E | |
| 6. Vending Machine/Candy | E | |
| 7. Vending Machine/All-Purpose (2) | E | |
| 8. Vending Machine/Coffee | E | CW |
| 9. Vending Machine/Cold Drink | E | CW |
| 10. Vending Machine/Multi-Product | E | |
| 11. Condiment Unit | E | |
| 12. Microwave Ovens (2) | E | |
| 13. Skill Machines (3) | E | |
| 14. Pinball Machines (7) | E | |
| 15. Juke Box | E | |

CODE: E = Electricity
 CW = Cold Water

Figure 4-29 Vending Area – 19,800 SF Center Furniture & Equipment Layout

4-6 REFRESHMENT ACTIVITIES (continued)

b. SNACK BAR.

(1) *Function.* The snack bar provides full food services and electric games where there are no other permanent exchange facilities available in the immediate area; operated by AAFES. Activities include purchasing and consuming food and drink, conversing, and playing electrically operated games.

(2) *Participants.* 84 patrons and staff in small groups of one to six.

(3) *Size.*

27,800 SF Centers

Dining	Serving	Kitchen	Games
1,400 SF	700 SF	1,000 SF	350 SF

Space/Unit 12 SF per diner

(4) *Relationships.* The snack bar should be adjacent to and immediately accessible from the lobby. All other areas should be able to be secured from the snack bar to permit its operation during times when the Center is closed.

The snack bar should be near the toilet rooms and immediately adjacent to the service court to permit deliveries and trash removal.

The snack bar should also be adjacent to the terrace area to accommodate outdoor dining, and located away from the active game area.

Internally, the AAFES game area should be adjacent to the snack bar area to allow consumption of food and drink while playing games.

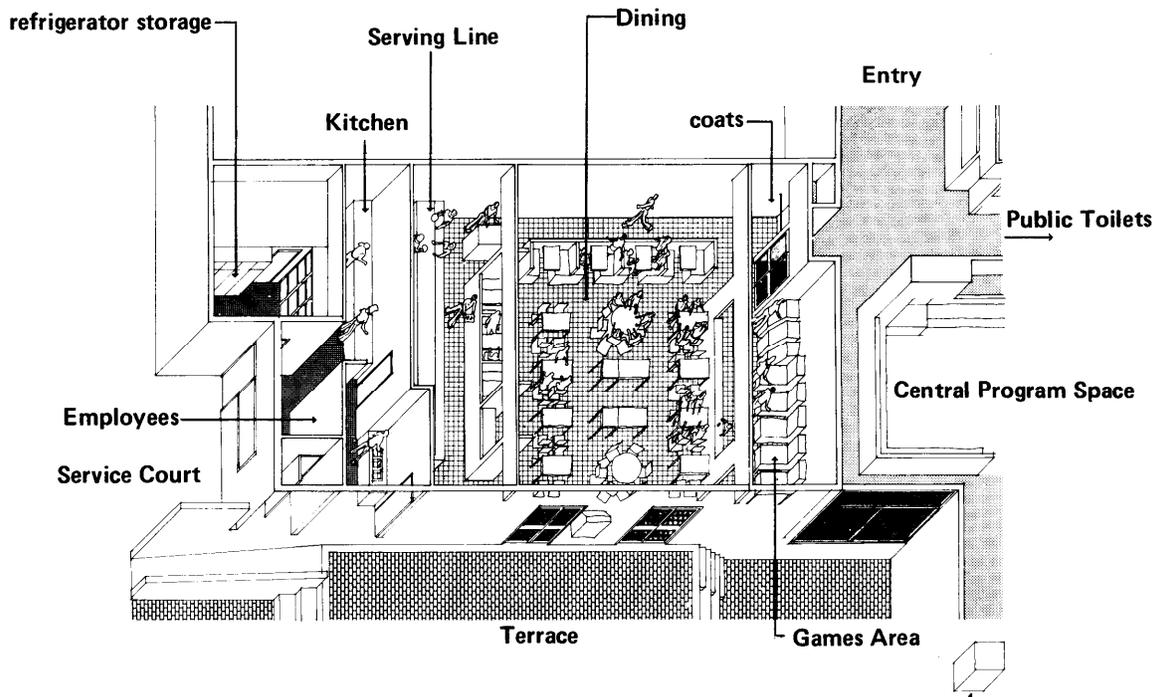


Figure 4-30 Snack Bar

(5) *Design Considerations.* The snack bar is the second largest activity in size in the Recreation Center, and although it is an administratively and physically independent section except at the lobby, the snack bar should be visually related to other activities. Eating areas defined by transparent partitions should overlook the central program area and the terrace. Internally, the areas should be separated by a decorative and booth-height screen wall. Windows should be maximized within parameters set for energy conservation to provide a view to the outside. In addition, a variety of shaded and sunny eating areas, both inside and outside, should be created.

Cross traffic through the dining area should be minimized and directed along clearly defined paths.

A mixed seating arrangement consisting of two- and four-place rectangular tables, four-place booths, and six-place round tables should be provided to accommodate varied sizes of customer groups and add interest and informality to the dining area.

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(6) *Technical Requirements*

(a) *Illumination*

Level	30 ftc game, dining, kitchen areas 70 ftc serving area
Type	incandescent; direct in serving lines, indirect in dining areas fluorescent; indirect in kitchen and game area provide sanitary fixtures in kitchen and serving line
Control	local switching dimmer control in dining area

(b) *Power*

Outlets	1 per wall in dining area; 1 per game see diagram for kitchen and serving area
Special	clock outlet 2' below ceiling above serving line
Total electric load	120/208v 3ø4 wire
Capacity	480 amps minimum (coordinate with AAFES)

(c) *Plumbing*

See diagram (coordinate with AAFES)

(d) *HVAC*

Summer	78°DB; 65°WB; RH 50%
Winter	65°-70° dining area; 66° kitchen
Air changes	15 per hour, dining area 25 per hour, kitchen

(e) *Communications*

P/A	1 station
Telephone	1 in office area
Sound	none

(f) *Acoustics*

	Public Kitchen	
Noise criteria	PNC 35	PNC 45
Sound level	38 dB	52 dB
Ave coef of absorp	0.30	0.25-0.40
Transmission (STC)+43 dB	+43 dB	

(g) *Critical Dimensions*

See diagram (coordinate with AAFES)

(7) *Interior Requirements*

(a) *Equipment*

See diagram (coordinate with AAFES)

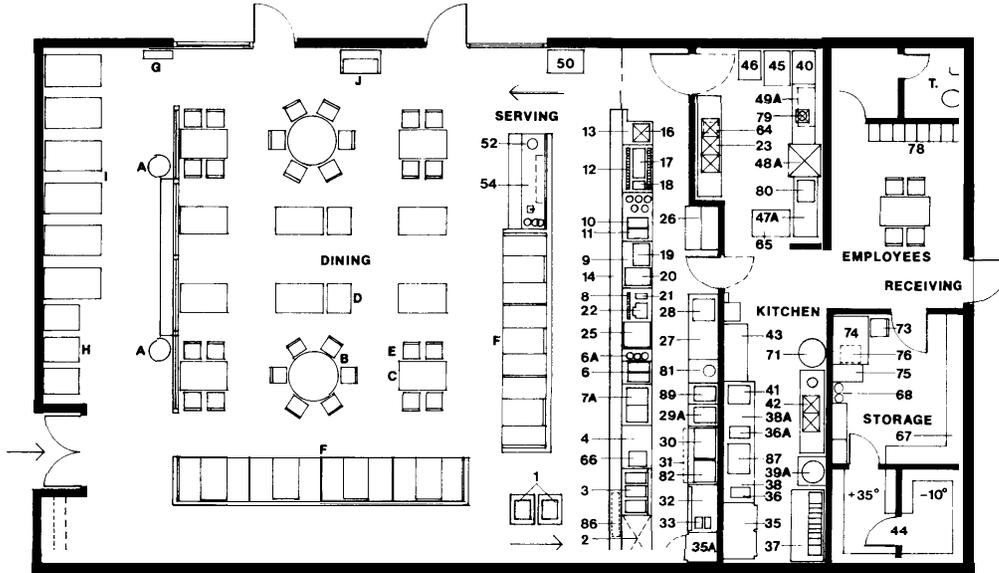
(b) *Furniture*

See diagram (coordinate with AAFES)

(c) *Finish Suggestions*

Walls	vinyl covered drywall, dining area
Floors	sheet vinyl or epoxy resin in dining area; impervious flooring in kitchen/serving area
Ceiling	exposed structure
(d) <i>Colors</i>	
Walls	off-white
Accents	warm primary colors

Design Guide: Recreation Centers – Individual Space Criteria – January 1976



FURNITURE & EQUIPMENT SCHEDULE - SNACK BAR

Item	Utility Requirements	Item	Utility Requirements
A Trash Receptacle		31. Updraft Exhaust Unit	E
B Dining Table		32. Sandwich Unit	E D
C Dining Table		33. Toaster, 4 slice	E
D Dining Table		35. Reach-in Refrigerator	E
E Chairs		35A. Reach-in Refrigerator	E
F Booths		36. Sandwich Sealer	E
G Coin/Bill Changer	E	36A. Hot Plate	E
H Skill Machines (3)	E	37. Cold Food Make-Up Table (w/overshelf)	E
I Pinball Machines (4)	E	38. Work Table	
J Juke Box	E	38A. Work Table	
Food Service Equipment:		39A. Bench Mixer w/stand	E
1. Tray Lowerator		40. Storage Rack	
2. Refrigerated Case Line	E D	41. Slicer	
3. Hot Food Unit (w/sneeze guard)	E	42. Vegetable Sink w/waste disposer	E CW HW
4. Open Shelving Counter		43. Storage Cabinet	
6. Lowerator Stand (drinking glasses) w/12" pass-through overshelf		44. Walk-in Dual Temp Box	E D
6A. Paper Cup Dispenser Stand		45. Rack Dolly	
7A. Canned Beer Cooler (w/12" pass-through overshelf)		46. Dish Dolly	
8. Beverage Dispenser Stand		47A. Clean Dish Table	
9. Dispenser Stand		48A. Dishwasher	E HW CW
10. Pastry Case		49A. Soiled Dish Table	
11. Lowerator Stand (for paper cups, china cups and saucers)		50. Busing Cart	
12. Urn Dispenser Stand, Dual Drip Pans		52. Cream Dispenser	
13. Cashier stand	E	54. Condiment Table	E C W
14. Tray Slide		64. Immersion Heater (for Item 23)	E
16. Cash Register		66. Dish Cart	E
17. Coffee Urn (Dual Dispenser)	E C W	66. Infra-Red Warmer	
18. Hot Chocolate Dispenser	E C W	67. Storage Shelving	
19. Bulk Milk Dispenser	E	68. Water Tanks (for Item 22, w/underfloor conduit and line connection)	
20. Milkshake Machine	E	71. Portable Trash Receptacle	
21. Tea Dispenser	E	73. Swivel Chair	
22. Combo Carb/Noncarb. Drink Dispenser	E C W	74. Writing Desk	
23. 3 Compartment Sink (w/3rd compartment Immersion heater)	E CW HW	75. Filing Cabinet	
25. Ice Dispenser		76. Safe	
26. Ice Cubelet Machine	E CW	78. Wall Lockers	
27. Refrigerated Base w/overshelf	E D	79. Waste Disposer	E
28. Pizza Oven	E	80. Dishwasher Rinse Booster Heater	E
29A. Deep Fat Fryer	E	81. Pressure Fryer	E
30. Griddle	E	82. Char-Broiler	E
		86. Menu Board	E
		87. Convection Oven	E
		89. Food Warmer	E

CODE: E = Electricity
 CW = Cold Water
 HW = Hot Water
 D = Drain

Figure 4-31 Snack Bar Furniture & Equipment Layout

4-6 REFRESHMENT ACTIVITIES (continued)

c. AMUSEMENT CENTERS.

(1) *Function.* Amusement centers provide limited food and beverage service with a large area for coin operated skill and pinball machines where a permanent exchange food facility is, or will be, available in the immediate area on installations without a training mission. Activities include consuming food and drinks – primarily pizza and beer – and playing games.

(2) *Participants.* Small groups of people from 1 to 6 totaling approximately 100-150 people.

(3) *Size.*

Overall	27,800 SF Center	
Game area	Dining area	Preparation
1,500 SF	1,000 SF	700 SF
Space/Unit	12 SF per diner	

(4) *Relationships.* Locate the amusement center adjacent to and immediately accessible to the lobby and terrace and near toilet rooms. All other areas should be secured from the amusement center after the Recreation Center closes. Locate the amusement center away from the active game area.

Amusement centers differ from snack bars in that there is a limited menu, usually beer and pizza, which requires a smaller dining area and preparation space and an increase in the game area.

(5) *Design Considerations.* The amusement center is the second largest activity in area in the Recreation Center, and although it is an administratively and physically independent section except at the lobby, the amusement center should be visually related to other

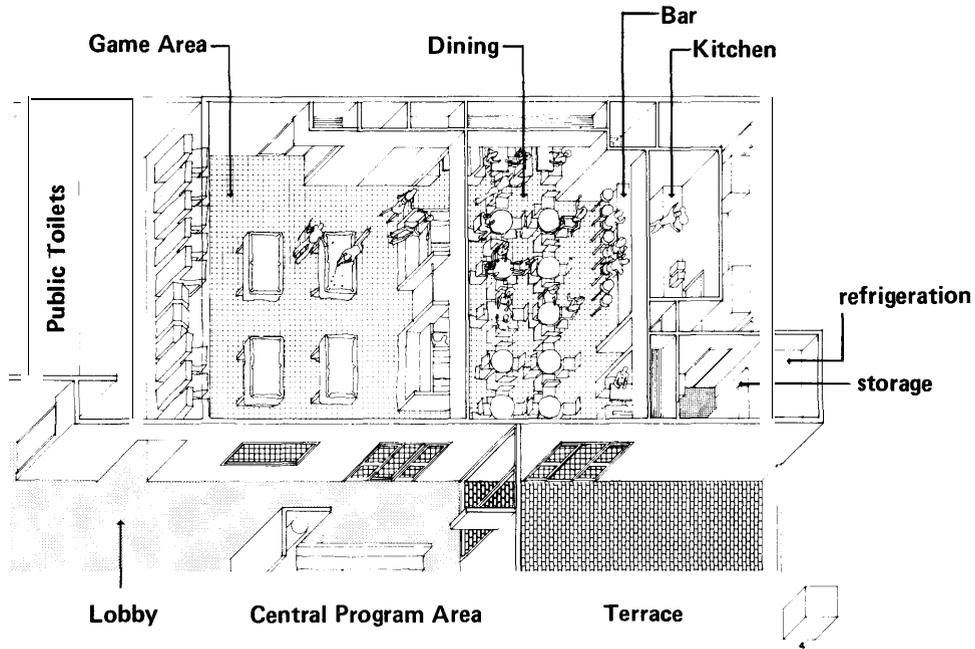


Figure 4-32 Amusement Center

activities. Eating areas defined by transparent partitions should overlook the central program area and terrace. Internally the areas should be separated by a decorative and booth-height screen wall. Windows should be maximized within energy conservation limits, to provide a view to the outside. In addition, a variety of shaded and sunny eating areas, both inside and outside, should be created.

Cross traffic through the dining area should be minimized and directed along clearly defined paths.

HQ AAFES Engineering Division should be requested to participate in the coordination of food service activities during the preliminary or concept stages of planning. Requests for coordination should be directed to HQ AAFES, Attn: EN-A, Dallas, Texas 75222.

AAFES will provide detailed Furniture and Food Equipment layouts with an equipment list stating power and utility requirements. General guidance on technical requirements and interior requirements follows.

(6) Technical Requirements

(a) Illumination

Level	30 ftc, dining and kitchen areas 50 ftc, game area 70 ftc, serving area
Type	incandescent; direct in serving lines, indirect in dining area fluorescent; indirect in kitchen and game area provide sanitary fixtures in kitchen and serving line
Control	local switch; dimmer control in dining area

(b) Power

Outlets	1 per wall in dining area; 1 per game see diagram for kitchen and serving areas
Special	clock outlet 2' below ceiling, above serving line
Total electric load	120/208v 3Ø, 4 wire
Capacity	480 amps minimum (coordinate with AAFES)

(c) Plumbing

See diagram (coordinate with AAFES)

(d) HVAC

Summer	78°DB; 65°WB; RH 50%
Winter	65°-70° dining area; 66° kitchen
Air changes	15 per hour, dining area 25 per hour, kitchen

(e) Communications

	Public	Kitchen
Noise criteria	PNC 35	PNC 45
Sound level	38 dB	52 dB
Ave coef of absorp	0.30	0.25-0.40
Transmission (STC)+43 dB	+43 dB	+43 dB

(f) Critical Dimensions

See diagram (coordinate with AAFES)

(7) Interior Requirements

(a) Equipment

See diagram (coordinate with AAFES)

(b) Furniture

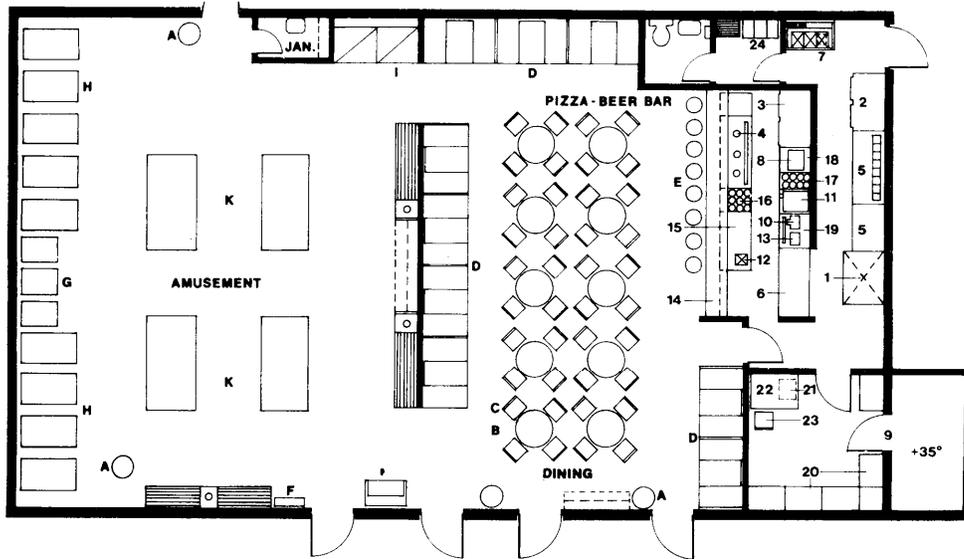
See diagram (coordinate with AAFES)

(c) Finish Suggestions

Walls	vinyl covered drywall, dining area
Floors	sheet vinyl or epoxy resin in dining area; impervious flooring in kitchen/serving area
Ceiling	exposed structure

(d) Colors

Walls	off-white
Accents	warm primary colors



FURNITURE & EQUIPMENT SCHEDULE – AMUSEMENT CENTER

Dining Room & Amusement Equipment:		Utility Requirements	Pizza/Beer Bar Equipment:		Utility Requirements
A	Trash Receptacle		9.	Walk-In Refrigerated Box	E D
B	Dining Table		10.	Noncarbonated Drink Dispenser	E CW
C	Chairs		11.	Ice-Maker/Dispenser	E CW
D	Booths		12.	Cash Register	E
E	Bar Stools		13.	Coffee Brewer	E
F	Coin/Bill Changer	E	14.	Bar Counter	
G	Skill Machines (3)	E	15.	Service Stand	
H	Pinball Machines (9)	E	16.	Filler Top w/12 paper cup dispensers	
I	Vending Machine/Candy	E	17.	Filler Top w/8 paper cup dispensers	
J	Vending Machine/Cigarettes	E	18.	Service Stand	
K	Pool Tables (4)		19.	Urn Stand	
L	Cue Rack		20.	Storage Shelving	
M	Juke Box	E	21.	Safe	
			22.	Office Table	
			23.	Swivel Chair	
			24.	Wall Lockers	
Pizza/Beer Bar Equipment:			CODE: E = Electricity		
1.	Pizza Oven	E			CW = Cold Water
2.	Reach-In Refrigerator	E D			HW = Hot Water
3.	Display Refrigerator	E D			D = Drain
4.	Draft Beer Dispenser	E			
5.	Refrigerated Pizza Make-Up Unit	E D			
6.	Pass-Through Shelving Counter				
7.	3 Compartment Sink (w/immersion heater)	E CW HW			
8.	Microwave Oven	E			

Figure 4-33 Amusement Center Furniture & Equipment Layout

4-7 SERVICE ACTIVITIES

a. MAINTENANCE AREAS.

(1) *Function.* To house those activities that comprise the physical maintenance of the Recreation Center. The activities consist of delivering supplies and equipment, removing trash, maintaining plumbing, mechanical equipment, parking and maintaining the landscape.

(2) *Participants.* Staff, maintenance and delivery personnel and patrons.

(3) *Size.* As required; mechanical rooms to be sized to meet the needs of the equipment housed.

Loading docks	80 SF minimum
Service area for kitchen	100 SF minimum

(4) *Relationships.* Utilities should be located near the platform and kitchen loading areas and common driveway to centralize service-related activities and to maximize efficiency of service to the building. Trash removal for the various activities should occur at the appropriate loading area.

(5) *Design Considerations.* Mechanical equipment rooms will be enclosed, securable, and entered only from outside the building.

Loading entrances are required at the platform, food preparation area, and mechanical equipment room to facilitate maintenance activities and the loading and unloading of supplies.

Siting considerations based on operational requirements will govern the placement of dumpsters for garbage collection. The location and orientation of the dumpster will be compatible with the design characteristics of the container and the loading vehicle, including turning and maneuvering radius requirements. Dumpsters should be located at the rear of a building, within a service area, or where they can be adequately screened with planting or fencing.

The final configuration and size of the mechanical equipment room should conform to an appropriate arrangement of the equipment actually selected. See illustrative building plans for utility requirements specifically related to each size facility.

(6) *Technical Requirements*

(a) *Illumination*

Level	10 ft
Type	incandescent utility fixtures
Control	local switching

(b) *Power*

Outlets	1
---------	---

(c) *Plumbing*

As required

(d) *H V A C*

Summer	none
Winter	60°
Air changes	0

(e) *Communications*

None

(f) *Acoustics*

None

(g) *Critical Dimensions*

As required

(7) *Interior Requirements*

(a) *Finishes*

Bare structure

4-7 SERVICE ACTIVITIES (continued)

b. PUBLIC TOILETS.

(1) *Function.* To house personal hygiene activities in a private and sanitary manner.

(2) *Participants* A variable number of staff, patrons, and patrons' guests.

(3) *Size.* The toilet areas will be sized to house the number of fixtures required by DOD 4270.1-M and TM 5-810-5, based on the aggregate number of occupants for which the Center is designed. This figure is derived from the maximum number of patrons that the Center can accommodate, who are engaged concurrently in various activities in different spaces including central program, small group, refreshment, special interest, and administrative areas.

The ratio of fixtures for men and women should be developed by the using agency according to installation population factors such as the potential number of female military and civilian personnel, and use patterns of the Center such as the potential number of female visitors.

Approximate overall sizes

12,700 SF Center	450 SF
19,800 SF Center	600 SF
27,800 SF Center	720 SF

(4) *Relationships.* The public toilet area should be adjacent to the lobby area and near the control center, AAFES refreshment and game area, and the special interest area. There should also be easy access from ITT and the telephone lounge. The entrance to the toilet areas should be visible from the control center.

(5) *Design Considerations.* To facilitate the use of public toilets when the Center is partially opened (e.g., special interest, ITT, refreshment areas), they should be designed in conjunction with the entry/lobby.

The interiors should be laid out with vestibules to provide privacy. In the women's room this vestibule should be developed as a small seating lounge.

A minimum of one fixture in each area will be accessible by the physically handicapped.

All fixtures shall be easy to maintain and operate, and will be equipped with water saving valves. Water closets shall be wall-hung and enclosed in ceiling mounted metal enclosures; valves will be mounted 39" above floor to minimize damage from kicking. Lavatories shall be enameled cast iron and be built into a counter. Urinals shall be wall-hung and enclosed with metal screens. All accessories and fittings will be tamper-proof.

Finishes should be impervious to water and easy to maintain.

(6) *Technical Requirements*

(a) *Illumination*

Level	30 ftc; mirrors 50 ftc
Type	direct fluorescent
Control	switch at control desk

(b) *Power*

Outlets	1 per wall
	1 at lavatories mtd at counter height

(c) *Plumbing*

As required for fixtures

(d) *HVAC*

Summer	78°DB; 65°WB; RH 50%
Winter	68°
Air changes 20 per hour	

(e) *Communications*

P/A	1 speaker station
Sound	1 speaker station

(f) *Acoustics*

Noise criteria	PNC 40-50
Appropriate sound level	47-56 dB
Ave coef of absorption	0.50
Transmission (STC)	+50

(g) *Critical Dimensions*

WC stall	2'-8" x 5'-0"
Aisle	5'-0"

(7) *Interior Requirements*

(a) *Equipment*

Paper towel dispensers, soap dispensers, toilet paper holders, mirrors, trash

receptacles, feminine napkin dispensers
and receptacles, plumbing fixtures as
required

(b) Furniture

Built-in lounge seats in vestibule areas

(c) Finish Suggestions

Walls epoxy painted drywall or
exposed glazed structural
tile

Floors ceramic tile or epoxy resin

Ceiling acoustical tile

(d) Colors

Walls off -white

Floors warm accent colors

Accents cool and warm primary
colors

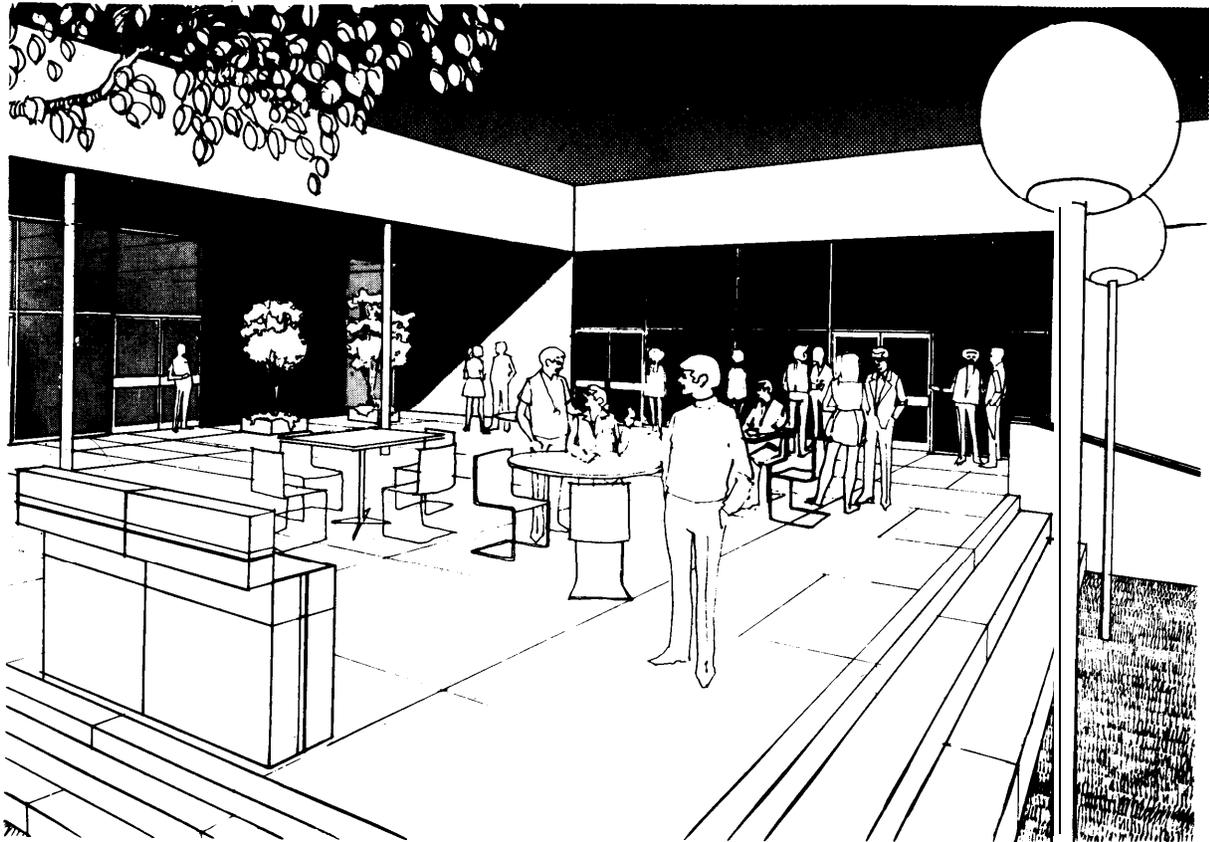


Figure 4-34 **Outdoor Activities**

4-8 OUTDOOR ACTIVITIES

a. TERRACE.

(1) *Function.* The terrace provides space for recreation activities that may occur outside the building during clement weather. Activities include dining, drinking, barbecuing, rap sessions, presentations, conversing, playing horseshoes, shuffleboard, dancing, etc.

(2) *Participants.* Small groups of 1-6 people, totaling up to 100 spectators and participants.

(3) *Size.*

Overall

12,700 SF Center	3,000 SF minimum
19,800 SF Center	3,600 SF minimum
27,800 SF Center	4,200 SF minimum

(4) *Relationships.* The terrace should be located adjacent to the central program area and the refreshment area so that it can be used in conjunction with the other activities taking place or as an overflow area.

The terrace should also be near the pantry in order that food may be prepared for barbecues and moved easily to the terrace for cooking.

Terraces should be oriented to take advantage of the sun and natural shade to gain maximum use during the year.

(5) *Design Considerations.* The terrace should include a stepped platform to permit

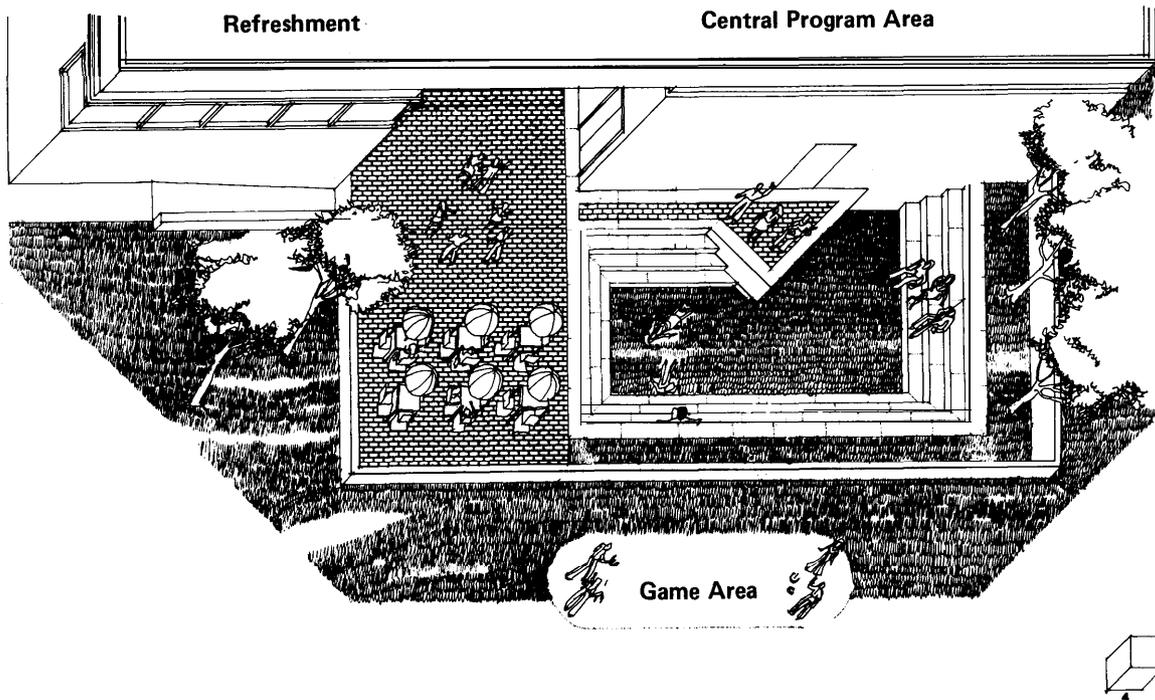


Figure 4-35 Terrace

outdoor presentations to occur, with terraced areas for seating and tables, and a covered area for shade during the warm months.

Active game areas such as shuffleboard should be provided approximately 15 feet away from the building and oriented away from any large glass areas. Also, they should be located on a lower level so that the building is protected by the steps.

Provision should also be made for the installation of barbecue grills.

Appropriate landscaping and planting should be used to define areas and enhance their character.

(6) *Technical Requirements*

(a) *Illumination*

Level 10 ftc
Type waterproof incandescent
Control local switch

(b) *Power*

Outlets 2 waterproof receptacles

(c) *Plumbing*

Hose bibb

(d) *Communications*

P/A 1 station
Sound 1 station, controlled from
 interior of central program
 area

(7) *Exterior Requirements*

(a) *Furniture*

Built-in benches

(b) *Finish Suggestions*

Brick or stone pavers

4-8 OUTDOOR ACTIVITIES (continued)

b. ENTRY COURT.

(1) *Function.* The entry court serves to organize pedestrian entry into the building, provide a visual focus to the Center from the surrounding area, and identify the Center. Activities include entering and exiting the Center, with small scattered groups informally conversing.

(2) *Participants.* Varying in number from 1 to 500.

(3) *Size.*

Overall		
12,700 SF Center	200 SF minimum	
19,800 SF Center	250 SF minimum	
27,800 SF Center	300 SF minimum	

(4) *Relationships.* The entry court should be connected to the pedestrian circulation system of the installation and the parking lot. In severe climates, consideration should be given to a covered connection to the drop-off area in the parking lot. The entry court should lead to the building entry and telephone lounge.

The entry should be separated from the service court.

(5) *Design Considerations.* The entry court, to a great extent, provides the visual identity of the Center and should have suitable graphics and identifying symbols. The entry court

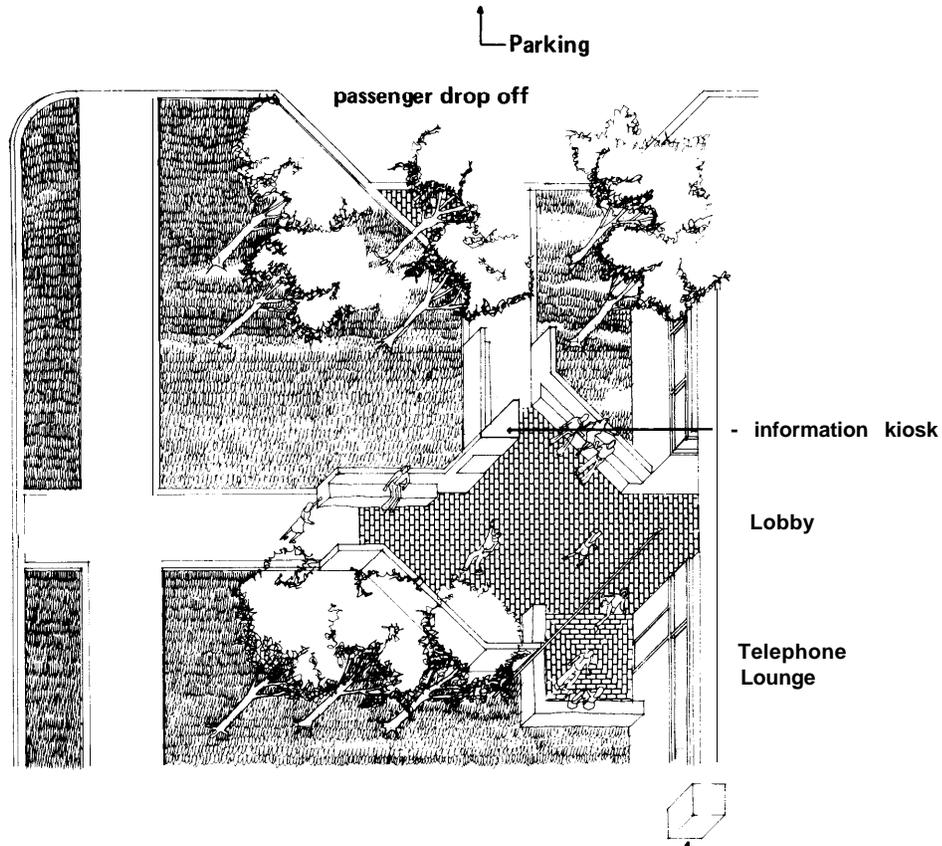


Figure 4-36 Entry Court

should focus pedestrian movement into the Center while providing areas for small groups to converse when leaving without interfering with traffic.

Landscaping and planting should be provided to develop a pleasant and attractive entrance to the Center. Care should be taken not to obscure vision into the Center from the exterior or into the parking lot from the entry court.

(6) Technical Requirements

(a) Illumination

Level	5 ftc
Type	waterproof incandescent, area
Control	automatic time switch at control desk

(b) Power

Outlets 1 waterproof receptacle

(c) Plumbing

Hose bibb

(d) Communications

P/A	1 speaker station
Sound	1 speaker station

(7) Exterior Requirements

(a) Equipment

Center identification sign
Announcement board

(b) Furniture

Built-in seating

(c) Finish Suggestions

Brick or stone pavers

4-8 OUTDOOR ACTIVITIES (continued)

c. PARKING.

(1) *Function.* This area serves to store vehicles of users and recreation services; for occasional use as a program space to exhibit antique or custom cars, or motorcycle events. Activities center around driving and parking vehicles and walking to and from the Center.

(2) *participants.* Small groups of 1-6 people totaling approximately 400 people.

(3) *Size.* Non-organization vehicles: Currently, parking must be provided for 2% of the enlisted population served; as outlined in DOD Manual 4270.1-M. If an analysis of parking requirements demonstrates that the following are inadequate, then a space exception with appropriate justifications should be submitted through command channels for approval.

Overall	No. of Cars	Area
12,700 SF Center	40	12,600 SF
19,800 SF Center	80	25,200 SF
27,800 SF Center	100	31,500 SF

Space/Unit 315 SF per car

(4) *Relationships.* The parking area should be adjacent to the entry court and connect to the service drive to minimize paving requirements. Walking distance from a parked car to the entrance should not exceed 300 feet. Care should be taken to minimize mixing of service traffic with visitor traffic.

(5) *Design Considerations.* Parking areas should be designed for easy entrance and exit, and shall provide 90 degree parking whenever practicable.

Vehicular entrances to parking area should be a minimum of 100 feet from any traffic intersection.

Parking area should be laid out to provide an efficient service arrangement for deliveries and trash removal and safe, convenient and pleasant pedestrian areas.

There should be a drop-off area at the entrance to the building.

Parking aisles and main walks should point toward the building for safety and convenience

of pedestrians. Parking provisions for the physically handicapped shall be provided nearest their trip designation. The design features shall include depressed curbs, ramps, paved walkways and special parking stalls to accommodate the operation of wheel chairs from either side of the parked vehicle. Care in planning must be exercised so that individuals in wheel chairs and persons using braces and crutches are not compelled to wheel or walk behind parked vehicles.

Planting in medians and large islands should be provided to screen and alleviate the bleak effect of broad expanses of paving, to help identify the traffic and parking patterns visually, and to provide an aesthetic balance between these areas and the building.

Recognition should be made of the growing demand of bicycle usage at Recreation Centers. Coordination is required with the using service to determine the magnitude of traffic flow and to anticipate needs for bicycle facilities. If provisions for bicycles are justified and parking in needs have been established by the using service, bicycle racks shall be provided near the door, of the trip destination, well away from any vehicular traffic congestion and parking.

Provide facilities for motorcycle parking in coordination with the using service.

(6) *Technical Requirements*

(a) *Illumination*

Level	5 ftc
Type	pole mounted long-life quartz tubes
Control	automatic time switch at control desk

Directional reflectors to prevent or diffuse objectionable illumination spillage on surrounding areas are required.

(b) *Plumbing*

Hose bibb

(c) *Surface*

Paving area: bituminous paving
Walks: concrete