

## 750 10 OUTDOOR PLAYING COURTS (EA)

Project Review: EFD, NAVFAC HQ, BUPERS (Pers-656D)

Commandant of the Marine Corps (CMC) code LFL

Design Criteria: Military Handbook (MIL-HDBK-1037/3) -- Outdoor Sports and Recreation Facilities

1. **GENERAL.** See introduction to 750 series category codes for General Instructions regarding facility allowance planning procedures.
2. **DEFINITION.** Outdoor Playing Courts provide facilities and support services to meet the individual physical fitness and recreation needs of military personnel. The facilities may also serve dependents, retirees and authorized civilians. Activities which may be accommodated in Outdoor Playing Courts include: basketball, tennis, volleyball.
3. **RELATED FACILITIES.** Consideration should be given to collocating the Outdoor Playing Courts with the following recreational facilities in order to (i) take advantage of potential savings in space requirements and operating costs, and (ii) provide users with the increased convenience of clustered facilities:
  - 740 43 Gymnasium
  - 740 45 Fitness Center
  - 740 50 Field House
  - 740 84 Indoor Playing Courts
  - 750 20 Playing Fields.
4. **DEMAND AND ALLOWANCES.** The number of Outdoor Playing Courts provided at each installation is determined on the basis of the peak hour usage, as follows:
  - a) Use projected base loading data to determine the population for each significant user population category, as listed in Tables 750 10A through 10C.
  - b) Calculate peak hour demand for each type of Outdoor Playing Court by multiplying the population for each category by participation factors found in Tables 750 10A through 10C. Add the demand for all population categories to derive Total Demand for each court type.
  - c) Derive the Total Number of Courts required by dividing the Total Demand by the maximum capacity per average peak hour per court, as indicated in Tables 750 10A through 10C.
  - d) Lighted courts may be provided as an alternative to the above unlighted courts. Calculate the Number of Lighted Courts by multiplying the Total Number of Courts of each type, as derived above, by the adjustment factors indicated in Tables 750 10A through 10C.

### Notes for Demand Calculations - Tables 750 10A through 10C:

- (1) **Population numbers should be consistent with projected base loading data. Officers are O-1 through O-10 and enlisted are E-1 through E-9. Civilians are authorized DoD employees. Retirees are all military retirees within a 30-minute drive of the installation.**

For facility planning purposes at installations with deployable forces, the active duty demand population is comprised of all of the non-deployable population, plus two-thirds of the deployable population, to reflect time away on deployment. However, calculation of the deployable population may be adjusted based on the actual deployment experience at individual installations.
- (2) **Usage of facilities by spouses and dependents has been considered in the participation factors used in the tables. These participation factors may be revised periodically by NAVFAC HQ and BUPERS, and the most current figures must be used in all demand calculations.**
- (3) **Lighted courts may be provided as an alternative to unlighted courts, in proportion of their relative total numbers as calculated in the Tables.**

**TABLE 750 10A  
OUTDOOR BASKETBALL COURT DEMAND CALCULATION**

| <u>Note</u> | <u>Population Category</u> | <u>Population (per Base Loading)</u> | x | <u>Participation Factor</u>  | = | <u>Peak Hour Demand</u> |
|-------------|----------------------------|--------------------------------------|---|--|---|-------------------------|
| (1),(2)     | Enlisted                   | .....                                | x | .0052  | = | ..... users             |
| (1),(2)     | Officers                   | .....                                | x | .0024  | = | + ..... users           |
| (1),(2)     | Retirees                   | .....                                | x | .0001  | = | + ..... users           |
| (1),(2)     | Authorized Civilians       | .....                                | x | .0011  | = | + ..... users           |
|             |                            |                                      |   | <b>Total Demand</b>  | = | ..... users             |
|             |                            |                                      |   | divide by maximum capacity per basketball court per average peak hour              |   | ..... ÷ 6               |
|             |                            |                                      |   | <b>Total Number of Outdoor Basketball Courts (round to the nearest whole unit)</b> | = | ..... courts            |
|             |                            |                                      |   | multiply by 0.6 to obtain the number of lighted courts                             |   | ..... x 0.6             |
| (3)         |                            |                                      |   | <b>Total Number of Lighted Courts (round to the nearest whole unit)</b>            | = | ..... courts            |

**TABLE 750 10B  
OUTDOOR TENNIS COURT DEMAND CALCULATION**

| <u>Note</u> | <u>Population Category</u> | <u>Population (per Base Loading)</u> | x | <u>Participation Factor</u>  | = | <u>Peak Hour Demand</u> |
|-------------|----------------------------|--------------------------------------|---|--|---|-------------------------|
| (1),(2)     | Enlisted                   | .....                                | x | .0010  | = | ..... users             |
| (1),(2)     | Officers                   | .....                                | x | .0023  | = | + ..... users           |
| (1),(2)     | Retirees                   | .....                                | x | .0005  | = | + ..... users           |
| (1),(2)     | Authorized Civilians       | .....                                | x | .0007  | = | + ..... users           |
|             |                            |                                      |   | <b>Total Demand</b>  | = | ..... users             |
|             |                            |                                      |   | divide by maximum capacity per tennis court per average peak hour              |   | ..... ÷ 2               |
|             |                            |                                      |   | <b>Total Number of Outdoor Tennis Courts (round to the nearest whole unit)</b> | = | ..... courts            |
|             |                            |                                      |   | multiply by 0.67 to obtain the number of lighted courts                        |   | ..... x 0.67            |
| (3)         |                            |                                      |   | <b>Total Number of Lighted Courts (round to the nearest whole unit)</b>        | = | ..... courts            |

**TABLE 750 10C**  
**OUTDOOR VOLLEYBALL COURT DEMAND CALCULATION**

| <u>Note</u> | <u>Population Category</u> | <u>Population (per Base Loading)</u> | x | <u>Participation Factor</u>  | = | <u>Peak Hour Demand</u> |
|-------------|----------------------------|--------------------------------------|---|--|---|-------------------------|
| (1),(2)     | Enlisted                   | .....                                | x | .0033  | = | ..... users             |
| (1),(2)     | Officers                   | .....                                | x | .0027  | = | + ..... users           |
| (1),(2)     | Retirees                   | .....                                | x | .0000  | = | + ..... users           |
| (1),(2)     | Authorized Civilians       | .....                                | x | .0005  | = | + ..... users           |
|             |                            |                                      |   | <b>Total Demand</b>  | = | ..... users             |
|             |                            |                                      |   | divide by maximum capacity per volleyball court per average peak hour              |   | ..... ÷ <b>6</b>        |
|             |                            |                                      |   | <b>Total Number of Outdoor Volleyball Courts (round to the nearest whole unit)</b> | = | ..... courts            |
|             |                            |                                      |   | multiply by 0.6 to obtain the number of lighted courts                             |   | ..... x <b>0.6</b>      |
| (3)         |                            |                                      |   | <b>Total Number of Lighted Courts (round to the nearest whole unit)</b>            | = | ..... courts            |