

17770 PUBLIC ADDRESS SYSTEM

.100 DESIGN GOAL

- A. A public address system shall be provided with system controls installed in central control, all housing unit control rooms, Level I housing unit control stations, Level II Officers Station and Platform, and gymnasiums. In addition, a stand alone system shall be installed in Warehouses, Central Health, Health Service Satellite, Canteen and Yard Observation Post.

.200 LOCATIONS AND FUNCTIONS

- A. Central Complex Control:
 1. Provide a zoned paging system with the following zones:
 - a. All housing units within a prison on a zone.
 - b. Each prison recreation yard on a zone.
 - c. Each gymnasium on a zone.
 - d. Each Central Health Building on a zone.
 - e. "All Call" all zones simultaneously.
 2. Complex control paging shall have priority over other interconnected systems. Central control shall have priority over complex control.
- B. Housing Units:
 1. Each Level II, III, IV, SHU and ASU housing unit shall be equipped with an "in-house", local paging capability only, system, located in the housing unit control room.
 2. In addition, Level II housing units will be equipped with a paging microphone installed in the floor officer's desk in a tamperproof lockable box that also encloses the Intercom master station.
 3. Level I housing units shall be equipped with a paging system capable of paging all areas of the Level I housing facility. The microphone shall be installed at the housing unit control station in a tamperproof lockable box.
 4. Provide sufficient speakers for well modulated coverage of the entire housing unit. Provide one loudspeaker outdoors to provide coverage of immediate recreation yard area. This unit to be controlled by a remote on-off switch located in Control Room.
- C. Gymnasium:
 1. Provide a public address system for each gymnasium.
 2. This system shall consist of a hand-held microphone, a minimum six foot coiled cord, wall mounted in lockable tamperproof box.
 3. If a gun post is utilized provide a wall mounted, hand-held microphone in this area. Provide sufficient speakers for well modulated coverage of the entire gymnasium.
- D. For institutions that have complex and/or individual facility control rooms, they will have the capability to page the recreation yard, gymnasium and housing units in their respective areas. Central control paging shall have priority and automatically cut off any microphones, in the prison, in use when calling that particular zone or "all call."

.300 EQUIPMENT

- A. The public address systems shall consist of the following equipment:
 1. Desk type microphones: Dynamic type.
 2. Hand held microphone: Dynamic type, high impact housing.
 3. Amplifiers: Each public address system shall require an individual amplifier. Individual amplifiers shall be relay controlled, solid state type, frequency response 30-15,000 Hz. Shall be of the proper wattage to provide well modulated voice paging without distortion. Units shall be designed to accept an override with local cut off, of a page from central control.
 4. Provide necessary preamplifiers, isolation transformers, etc., as required to allow zero dBm level paging transmission over distribution cabling to each zone for proper system function.

- Signal levels to be maintained to avoid crosstalk or inductive noise, signals, etc., over adjacent telephone pairs.
5. Indoor speakers:
 - a. Surface or flush mounted speakers shall be a minimum of eight inches in diameter.
 - b. Speakers to be equipped with a tapped matching transformer for 70 or 25 volt line, frequency response 30-15,000 Hz.
 - c. Speaker assembly to be housed in a surface or flush mounted acoustically treated backbox complete with a security type grille fastened with tamperproof hardware.
 - d. All speakers shall be inaccessible to inmates as to mounting heights, environment, etc.
 6. Outdoor speakers:
 - a. Outdoor housing unit and gymnasium speakers shall be Trumpet Loudspeakers.
 - b. Trumpet speakers shall be double re-entrant type.
 - c. They shall contain built-in line transformer with tapped primary for volume adjustment.
 - d. Housing shall be of non-resistant fiberglass and treated heavy gauge aluminum die-casting.

END OF DOCUMENT