



## BASIC SITE and UTILITY REQUIREMENT GUIDE

For a **new CCA prison** the following minimum requirements must be met:

### Site:

1. Minimum land area requirement:  
**80 acres minimum and preference of 100 acres or more**  
**Basic dimensions of 1,300 foot minimum width and 1,800 foot minimum length**  
**The site should be relatively flat and have no easements within the area designated for a building site**

### Utility requirements:

2. Average daily domestic water demand per inmate (gallons):  
**125-140 gallons per inmate, per day (can we change to 104 GPD based on our new information?)**
3. Peak day demand per inmate (gallons):  
**130 gallons per inmate, per day domestic water peak demand – 750 GPM. (corresponding change?)**
4. Typical meter size (inches):  
**Main water line service to site, 12 inches;**  
**Water meters: two, 4 inch meters (could also be one, 6 inch meter, depending on developmental costs)**
5. Typical on-site water storage requirement (gallons):  
**350,000 gallons (increase based on new bed counts?)**
6. Typical fire flow requirement (gallons per minute) and duration (minutes):  
**1,500 gallons per minute for 2 hours for fire flow out of a hydrant, plus 700 GPM for building sprinklers and hoses, equal to: 2,200 GPM for 2 hours**

**Water Pressure: Minimum of 50 psi or higher if possible, not to exceed 80 psi max**

### Wastewater flow:

7. Average daily flow generated per inmate (gallons):  
**115 to 130 gallons per day, per inmate corresponding change?)**
8. Typical pre-treatment (if any):

## Grinder pump or auger monster preferable



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### Electric power:

9. Average daily demand (kV hours):

**39,456 kWh**

**Or 26.30 kwh per bed/per day**

10. Peak demand per bed:

**1.42 kW**

11. Typical power requirement:

**3,294 kW, Note: we prefer to have a diverse power entrance for separate grids**

### Digital Data Circuits:

12. Minimum CCA requirements for service

#### **Requirement:**

- **100 pairs of voice circuits or optical carrier circuit running into the facility.**
- **Central offices need to be able to provide primary rate interface (PRI) circuits.**

#### **Preference:**

- **The ability to have a dual telephone entrance to facilities from two central offices located within 20 to 30 miles of the facility.**

### Natural gas:

13. Average daily/monthly/annual demands (MM cubic feet):

**30,000,000 btu/h in warmer areas of the country; 45,000,000 btu/h in colder areas. Loads vary and the above reference is for packaged rooftop gas fired a/c units**

### Solid waste:

14. Average daily waste amount per inmate (pounds):

**5 lbs per inmate, per day or 5 x 1500 x 31 = 232,500 lbs per month**

15. Recycling policies:

**Case by case basis and as required**