

Base Engineer Horizontal Construction Facility. FAC: 2191

CATCODE: 219943

OPR: AFCEC/COS

OCR: AFCEC/CFT

1.1. Description. The Base Civil Engineer (BCE) is responsible for a wide variety of design, construction, operation, maintenance, and environmental planning functions on base facilities and utilities systems. The pavements and grounds division usually has three work centers: pavements, equipment operations, and grounds.

1.1.1. The pavement work center maintains paved surfaces and repairs and constructs airfields, roadways, and parking areas.

1.1.2. The equipment operations work center operates construction and special purpose equipment such as backhoes, dump trucks, airfield sweepers, and bulldozers.

1.1.3. The grounds work center is responsible for base landscaping including mowing, pruning, and trimming grass and shrubs in the common areas of the base. The work center also maintains perimeter fencing and road signs on the base.

1.2. Requirements Determination. The BCE complex should provide a professional, functionally integrated environment for personnel performing management, training, administrative, design, and planning tasks and for personnel performing functions such as carpentry, metal working, electrical, pavements and grounds, and other skilled labor tasks. Additional information may be obtained from AFCEC/COS and AFCEC/CFT. Refer to **CATCODE 213335** for fueling station and pump authorizations. **Table 1.1** below provides planning factors to determine gross area requirements for a consolidated pavement, equipment operations, and grounds work center. For separated functions, apply the factors and add additional space requirements for functions such as latrines and break rooms at each location.

1.3. Scope Determination. See **Table 1.1.** below.

1.4. Dimensions. See **Table 1.1.** below.

1.5. Design Considerations. In cold climates, add additional space requirements for snow removal function.

Table 1.1. Space Requirements for BCE Facilities - Pavements and Grounds Facility

Functions	Net Building Area	
	m ²	ft ²
Pav/Equip (CEOHP) ¹	372	4,000
Notes:		
1. This is an average zone/facility size. Each Squadron should adjust these sizes based on local requirements.		