



**DESIGN DATA:** Weight of earth = 120 lbs./Cu.ft.  
 Weight of rock-filled gabions = 110 lbs./Cu.ft.  
 Angle of repose = 34° (1½:1 slope)  
 Design earth pressure:  
 Horizontal - 80 lbs./Cu.ft. equivalent fluid pressure  
 Vertical - 40 lbs./Cu.ft. equivalent fluid pressure

**CONSTRUCTION:** Fractional height courses (1 or 2 feet) will be permitted only in the top course next to the foundation.

Wire baskets may be omitted from any 3 ft. square section which is surrounded on all four sides by standard baskets and on ends by baskets not less than 6 ft. in length.

Place and compact backfill as the wall is constructed, so that the fill is maintained within 6 ft. of the top of the wall.

Provide underdrain outlets at all low points, and intervals not to exceed 100 feet.

NUMBER OF COURSES	"H" Ft.	"B" Ft.	GABIONS Cu.yd./Lin.ft.
1	3	3	0.333
2	6	6	1.000
3	9	9	2.000
4	12	9	3.000
5	15	12	4.333
6	18	12	5.667
7	21	15	7.333
8	24	15	9.000
9	27	18	11.000
10	30	18	13.000

**TYPICAL CROSS SECTION**

**NOTE:**  
 For design and layout, H' and B' may be considered equal to H and B, respectively.

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION  
 EASTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

**GABION  
 RETAINING WALL**

DETAIL APPROVED FOR USE

REVISD: 01/08

DETAIL  
 E253-01