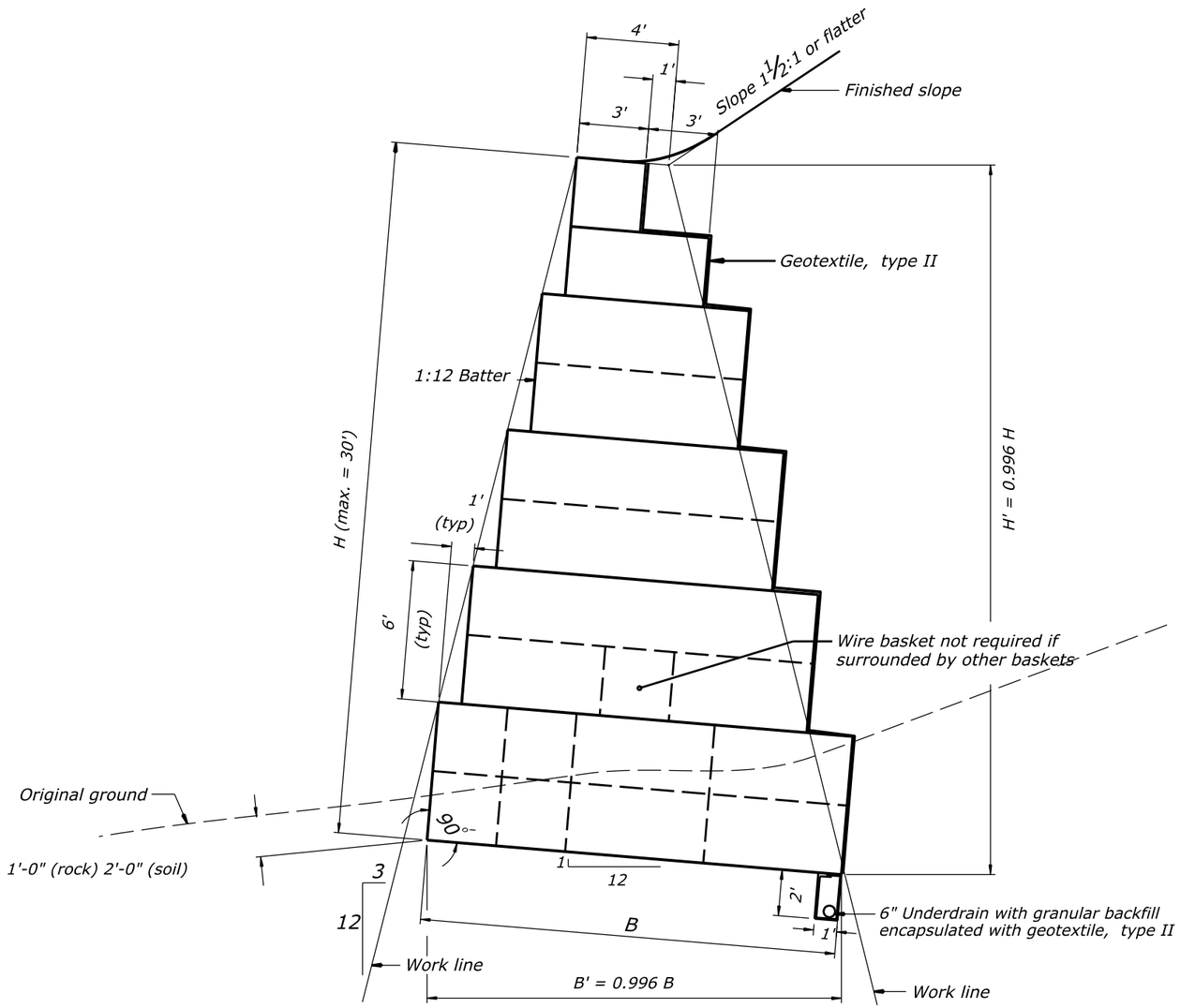
| REG | STATE | PROJECT | SHEET NO. |
|---|---|---|---|
| | | | |




## TYPICAL CROSS SECTION

**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. equivlalent 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 |

***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

APPROVED : MAY 2011

DETAIL E253-01

$$$$DATE$$$$ $TIME$ $$$$CH$$$$