

CASE I. CASE II. AND CASE III

Н	В	END AREA	VOLUME
	046	SQ. FT.	C.Y. / L.F.
CASE I OR II OR III			
3′-0′′	1′-6′′	3.7500	0.1389
3′-6′′	1′-9′′	4.8125	0.1782
4'-0''	2'-0''	6.0000	0.2222
4′-6′′	2'-3''	7.3125	0.2708
5′-0′′	2′-6′′	8.7500	0.3241
5′-6′′	2′-9′′	10.3125	0.3819
6′-0′′	3'-0''	12.0000	0.4444
6′-6′′	3′-3′′	13.8125	0.5116
7′-0′′	3′-6′′	15.7500	0.5833
7′-6′′	3′-9′′	17.8125	0.6597
8'-0''	4'-0''	20.0000	0.7407
8'-6''	4'-3''	22.3125	0.8264
9'-0''	4'-6''	24.7500	0.9167
9'-6''	4'-9''	27.3125	1.0116
CASE I			
10'-0''	5′-0′′	30.0000	1. 1111
10'-6''	5′-3′′	32.8125	1.2153
11'-0''	5′-6′′	35.7500	1.3241
11'-6''	5′-9′′	38.8125	1.4375
12'-0''	6'-0''	42.0000	1.5556
CASE II OR III			
10'-0''	6'-0''	35.0000	1.2963
10'-6''	6′-3′′	38.0625	1.4097
11'-0''	6′-6′′	41.2500	1.5278
11'-6''	6'-9''	44.5625	1.6505
12'-0''	7′-0′′	48.0000	1.7778
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## NOTES

THE RETAINING WALL DEPICTED ON THIS DRAWING SHALL BE USED WHEN THE HEIGHT (H DIMENSION) OF THE WALL IS 12'-0" OR LESS PROVIDED THE FILL COMPLIES WITH THE FOLLOWING CONDITIONS:

CASE I - WALL BACKFILL SLOPES DOWN , IS LEVEL, OR SLOPES UP FROM WALL AT 20:10R FLATTER. THIS LOW SLOPE ALLOWS FOR BACKFILLS WHICH WOULD BE LEVEL EXCEPT FOR THE SLOPE REQUIRED TO FACILITATE PROPER DRAINAGE.

CASE II - BACKFILL SLOPES UP STEEPER THAN 20:1 BUT NOT STEEPER THAN 4:1.

CASE III - BACKFILL SLOPES UP STEEPER THAN 4:1 BUT NOT STEEPER THAN 2:1. WHEN H DIMENSION IS GREATER THAN 8' (HEIGHT OF EXPOSED FACE GREATER THAN 6') INCREASE THE EMBEDMENT DEPTH TO 1/4H, (1).

SPECIAL DESIGNS SHALL BE REQUIRED WHEN THE FOLLOWING CONDITIONS EXIST:

(A) WALL HEIGHT IS GREATER THAN 12'-0"

B WALL IS SURCHARGED WITH DEAD LOAD FILL SLOPES STEEPER THAN 2:1.

© WALL IS SURCHARGED WITH A LIVE LOAD WITHIN THE LIMITS OF A 1:1 SLOPE EXTENDING FROM THE BASE OF THE WALL.

AREAS AND VOLUMES HAVE BEEN COMPUTED WITHOUT DEDUCTING FOR BEVELED EDGES OR PIPE DRAINS. WHEN A RETAINING WALL VARIES IN HEIGHT, THE PRISMOIDAL FORMULA SHALL BE USED IN COMPUTING VOLUMES.

1) MINIMUM EMBEDMENT VALUE FOR FIRM EARTH IS 2'-0"; CASE III REQUIRES AN EMBEDMENT OF 1/4H FOR A WALL OVER 8' (SEE CASE III ABOVE).

2) BATTER: CASE I, AND CASE II

H = 3'-0'' TO LESS THAN 5'-0'' (VERTICAL)

H = 5'-0'' TO LESS THAN 10'-0'' (12:1)

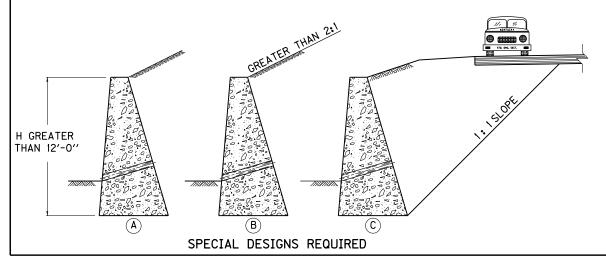
H = 10'-0'' T0 12'-0'' (6 : 1)

CASE III

H = 3'-0" TO LESS THAN 5'-0" (12:1)

H = 5'-0'' T0 12'-0'' (6 : 1)

3) FABRIC WRAPPED DRAINS AND 4" PIPE FOR WEEPHOLES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR GRAVITY TYPE RETAINING WALLS.



PAY ITEM
CONCRETE, CLASS B

STRUCTURE EXCAVATION
GRANULAR EMBANKMENT (WHEN REQUIRED)

CU. YD.

CU. YD.

KENTUCKY
DEPARTMENT OF HIGHWAYS

RETAINING WALL GRAVITY TYPE NON - REINFORCED

STANDARD DRAWING NO. RGX-002-08

SUBMITTED SPECIAL DIRECTOR DIVISION OF DESIGNATION OF DESIGNATION

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