

CASE I, CASE II, AND CASE III

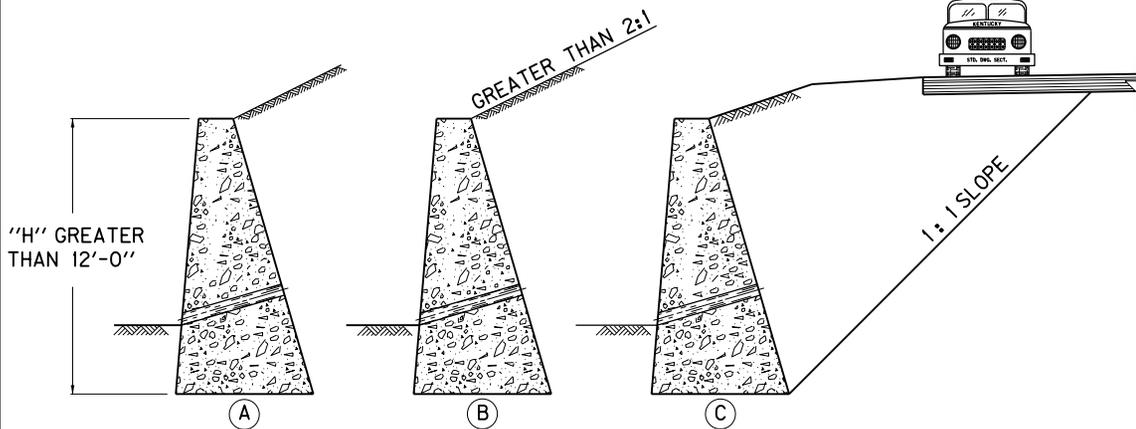
H	B	END AREA SQ. FT.	VOLUME CU. YDS./L.F.
CASE I OR II OR III			
3'-0"	1'-6"	3.7500	0.1389
3'-6"	1'-9"	4.8125	0.1782
4'-0"	2'-0"	6.0000	0.2222
4'-6"	2'-3"	7.3125	0.2708
5'-0"	2'-6"	8.7500	0.3241
5'-6"	2'-9"	10.3125	0.3819
6'-0"	3'-0"	12.0000	0.4444
6'-6"	3'-3"	13.8125	0.5116
7'-0"	3'-6"	15.7500	0.5833
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

~ NOTES ~

- 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).
- 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" TO 12'-0" (6 : 1)
 CASE III
 H = 3'-0" TO LESS THAN 5'-0" (12 : 1)
 H = 5'-0" TO 12'-0" (6 : 1)
- FABRIC WRAPPED DRAINS AND A 4" PIPE FOR WEEP HOLES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR GRAVITY TYPE RETAINING WALLS.
- 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 AND IS LEVEL, OR SLOPES UP FROM WALL AT 20:1 OR 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.
 (C) 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.

BID ITEMS AND UNIT TO BID
 CONCRETE-CLASS B
 EXCAVATION
 GRANULAR EMBANKMENT (WHEN REQUIRED)

CUYD
 CUYD
 CUYD



SPECIAL DESIGNS REQUIRED

KENTUCKY DEPARTMENT OF HIGHWAYS	
RETAINING WALL GRAVITY TYPE NON - REINFORCED	
STANDARD DRAWING NO. RGX-002-09	
SUBMITTED <i>William P. Gullett</i>	DATE 12-01-15
<small>DIRECTOR, DIVISION OF DESIGN</small>	
APPROVED <i>[Signature]</i>	DATE 12-01-15
<small>STATE HIGHWAY ENGINEER</small>	