

- 1. Template with minimum 1'-6" toe cover is based on wall at its layout line, and may be used for taking sections perpendicular to roadway center line with offsets.
- 2. Quantity of structure excavation (EM,) may be calculated either by formulae with average H and θ at wall layout line or by actual area from graphic model.
- 3. Earth removal, outside the boundaries as defined shall be managed under roadway quantities and paid as unclassified excavation.
- 4. Micropile A-Frame is an option only for anchoring bridge rail and meeting slope stability with F.S. ≥ 1.3 .
- 5. Existing slope and widening width may be varied depending upon site geometry

CONDITION: $H \ge 1.5 + 3 \tan(\theta)$ $EM_1 = [0.7(DH)^2 - 0.5(DH-H)^2/tan \Theta + 3.375 + 4.5tan \Theta] / 27$ BM, = [3.375 + (RL)(DH)] / 27

Example.	
Inputs	- DH=16'; Average RL=0.7DH=11.2'; θ=45°
Outputs	- H=4.5'; EM ₁ =4.2 (CY/Ft.); BM ₁ =6.76 (CY/Ft.);

Print Date: 9/6/2016		Sheet Revisions			Colorado Department of Transportation	As Constructed	Pay Items For Truncated Base With or Without A-Frame		Project No./Code
File Name: Sheet_B-504-Q5.dgnHoriz. Scale: 1:4Vert. Scale: As Noted	\bigcirc	Date:	Comments	Init.	4201 East Arkansas Avenue	No Revisions:		10ut A-Frame 11 Rock Excavation	Project Number
Staff Bridge Branch-Unit OXXX Unit Leader Initials					Denver, CD 80222 Phone: 303-757-9309 FAX: 303-757-9197	Revised:	Designer: XXXXXXX	Structure Wall-X-XX-XX Numbers Wall-X-XX-XX	Code
	$\underline{\bigcirc}$				Staff Bridge Branch Initials	Void:		Subset Sheets: WXX of XX	

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(Preliminary Stage Only)

B-504-Q5 (Wall Quantities)

.); MRS=6.64 (CY/Ft.); PLG=15.2 (ft./ft.)