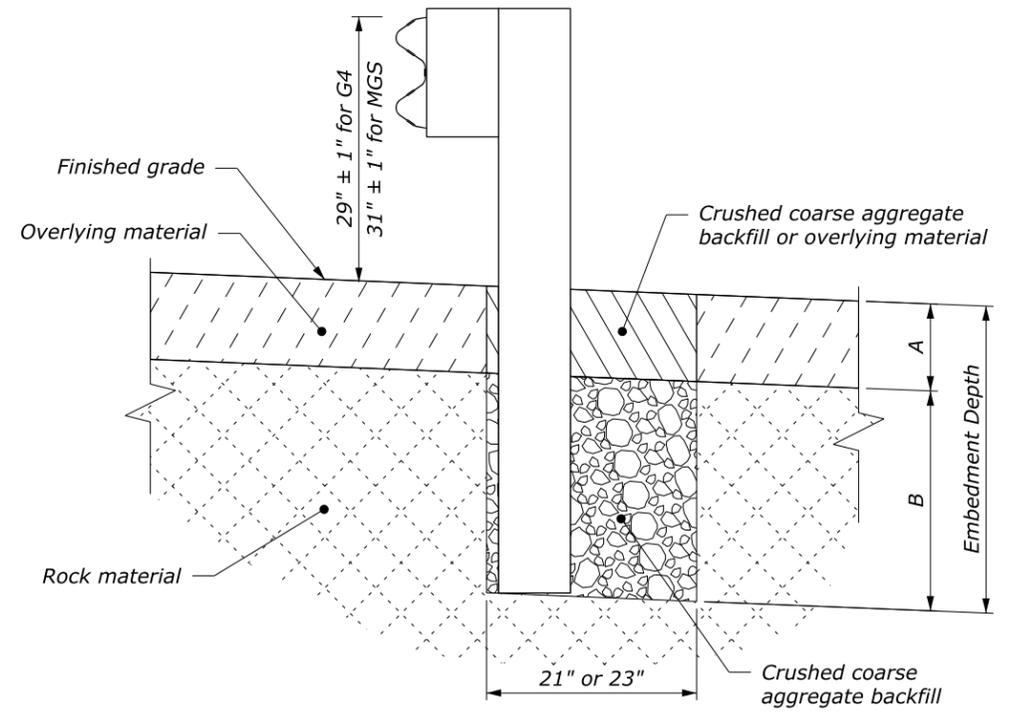


**NOTES:**

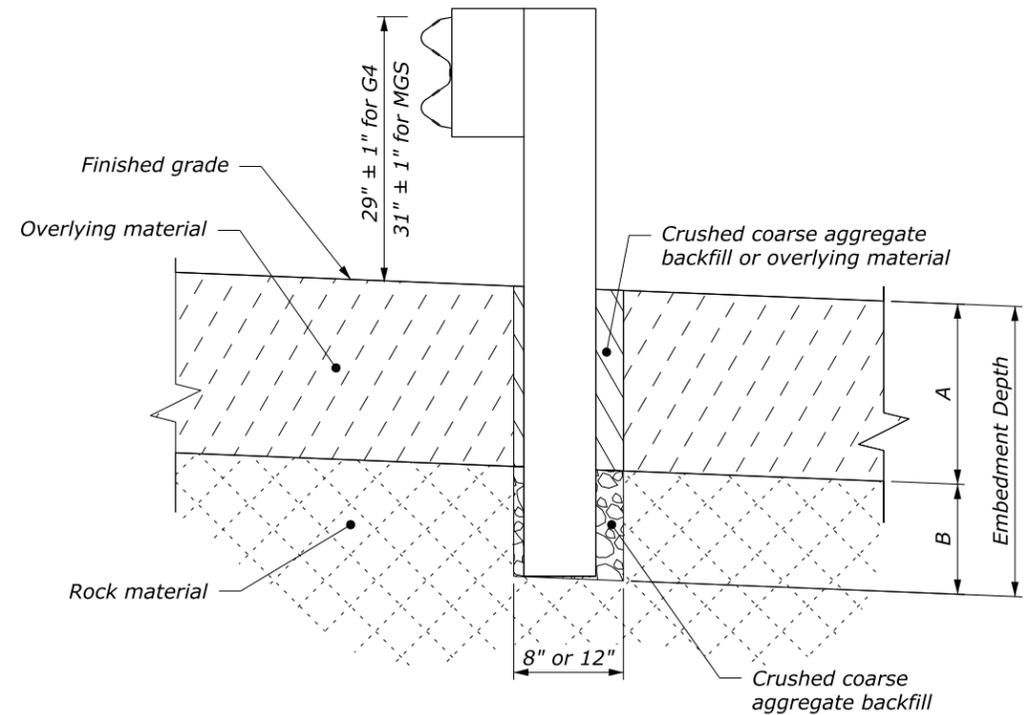
1. Use this Detail when posts cannot be embedded to the minimum depth shown on Details ET 617-10, ET 617-11, ET 617-31, or ET 617-32.
2. Unless otherwise specified, use either the circular or the oblong hole configuration for Case 1 conditions.
3. Use crushed coarse aggregate backfill that conforms to "coarse aggregate for concrete" or "granular backfill for underdrain pipe with geotextile" in Section 703.
4. Place crushed coarse aggregate according to the post requirements in Section 617.
5. Treat field cut galvanized steel post surfaces that expose the base metal with two coats of zinc-oxide paint.



**ELEVATION**

Case 1: Overlying material depth (A) is 18" or less.

POST EMBEDMENT DIMENSIONS			
HOLE TYPE	EMBEDMENT DEPTH	OVERLYING MATERIAL (A)	DRILLING DEPTH (B)
Case 1	24" to 42"	0 to 18"	24"
Case 2	30" to 42"	> 18" to 30"	12"
	42"	> 30"	42" - A



**ELEVATION**

Case 2: Overlying material depth (A) is greater than 18".

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
OFFICE OF FEDERAL LANDS HIGHWAY

EFLHD DETAIL

**MGS AND G4  
W-BEAM GUARDRAIL  
INSTALLATION IN ROCK**

DETAIL APPROVED FOR USE 2/2019  
REVISED: 4/2019 2/2020 9/2020

DETAIL  
ET 617-13