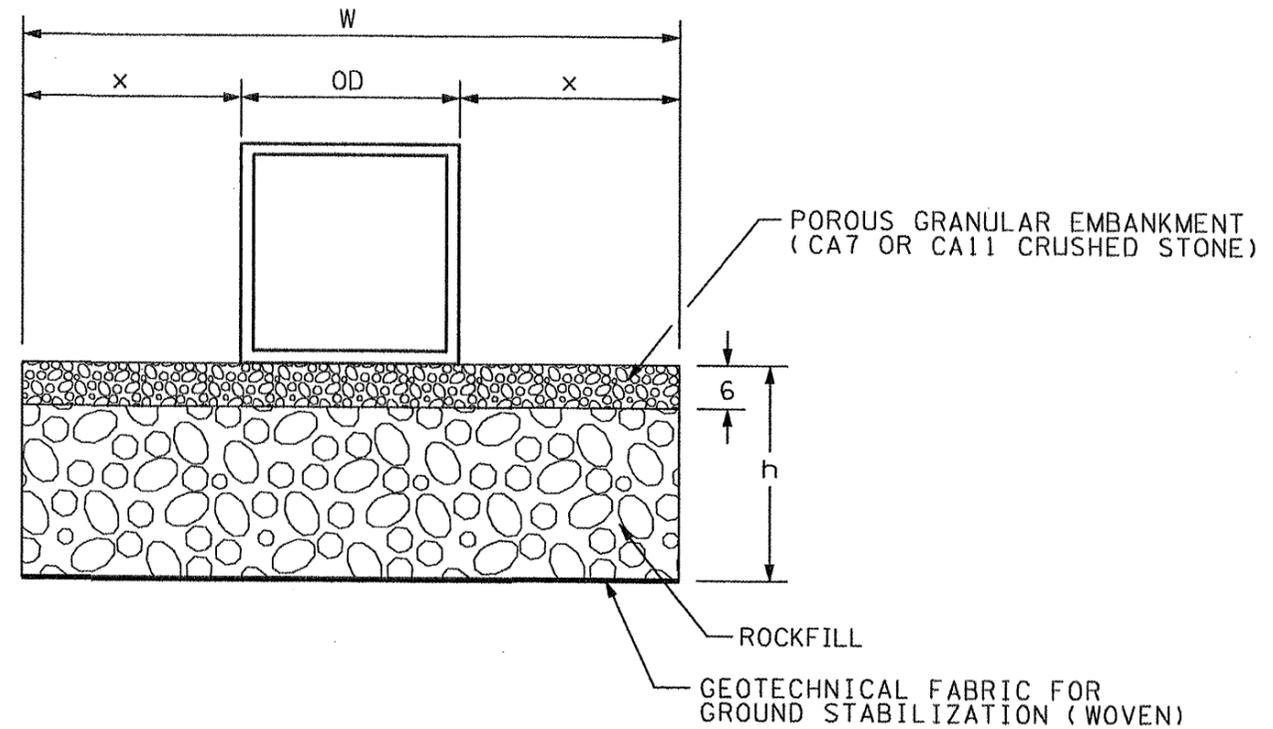


ALTERNATE I: UNDERCUT 18" OR LESS



ALTERNATE II: FOR >18" TO 36" UNDERCUT

CULVERT LOCATION	UNDERCUT			
	DEPTH	WIDTH		
	h	x	OD	W
18.0' LT TO 38.0' RT	2.5'	2.0'	11.0'	15.0'

GENERAL NOTES:

- Undercut if the Dynamic Cone Penetrometer tests indicate soil strength is less than 1 ton/sq ft.
- DEFINITIONS:
 OD = Outside width of box culvert.
 h = Depth of undercut.
 x = h or minimum 2 feet, which ever is greater for box culverts.
 W = Width of undercut = 2x + OD.
- For undercuts greater than 36", use Alternate II with undercut treatments as directed by the District Geotechnical Engineer.

All dimensions are in inches (millimeters) unless otherwise noted.

FILE NAME = 68406 sheets.dgn	USER NAME = kilmonkk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	UNSUITABLE EXCAVATION TREATMENT DETAIL FOR BOX CULVERT - STA. 669+76	F.A.P. RTE. 685/618	SECTION 36(RS-11C-21)	COUNTY MCDONOUGH	TOTAL SHEETS 52	SHEET NO. 25	
	PLOT SCALE = 100.0000 "/ IN.	DRAWN -	REVISED -			NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS	STA. 669+76	CONTRACT NO. 68406		ILLINOIS FED. AID PROJECT
	PLOT DATE = 4/22/2009	CHECKED -	REVISED -								
		DATE -	REVISED -								