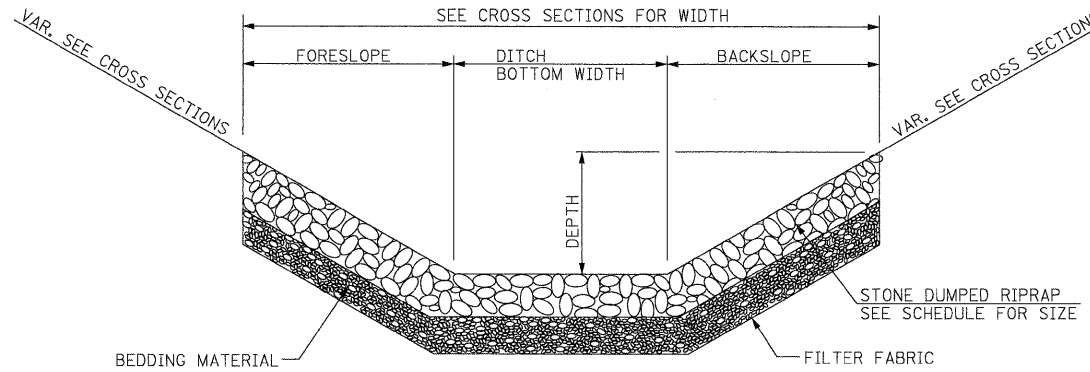


NOTES:

1. FOR RIPRAP LENGTH, WIDTH AND DEPTH SEE RIPRAP SCHEDULE SHEET DU-22.
2. THE RIPRAP MATERIAL SHALL CONFORM TO CLASS A OR CLASS B QUALITY.
3. FILTER FABRIC WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR FILTER FABRIC FOR USE WITH RIPRAP.
4. THE EXACT LENGTH, WIDTH AND DEPTH FOR RIPRAP PLACEMENT WILL BE DETERMINED BY THE ENGINEER.
5. NO RIPRAP SHALL BE PROVIDED WHERE PROPOSED CULVERT OUTLETS TO PAVED DITCH OR EXPOSED BEDROCK.

DEPTH	SIDE WIDTH		
	1:2 SLOPE	1:3 SLOPE	1:4 SLOPE
6"	1.0'	1.5'	2.0'
12"	2.0'	3.0'	4.0'
18"	3.0'	4.5'	6.0'
24"	4.0'	6.0'	8.0'
36"	6.0'	9.0'	12.0'
48"	8.0'	12.0'	16.0'

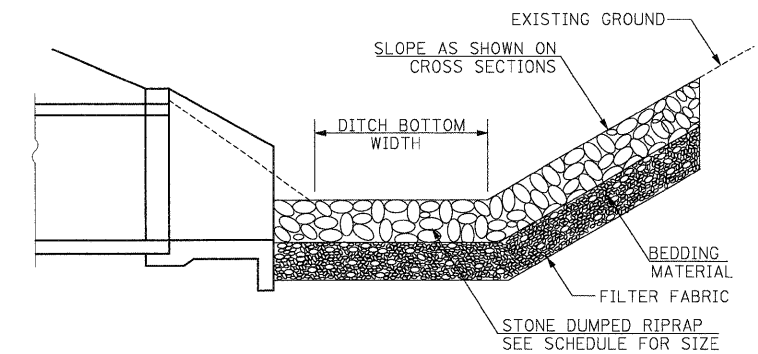
* SIDE WIDTHS IN TRANSITIONAL AREAS, WILL VARY ACCORDING TO SIDE SLOPE.



SECTION A-A

RIPRAP AT OUTLET ENDS OF CULVERTS

NOT TO SCALE

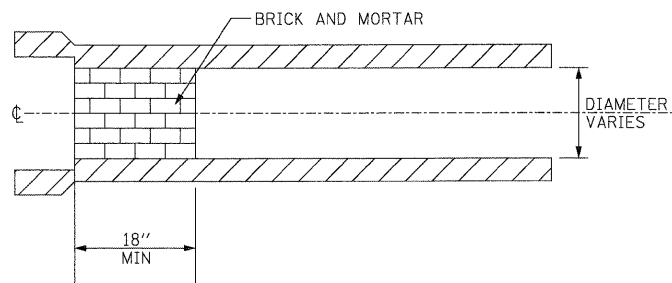


SECTION B-B

RIPRAP AT OUTLET ENDS OF CULVERTS PERPENDICULAR TO DITCH

NOT TO SCALE

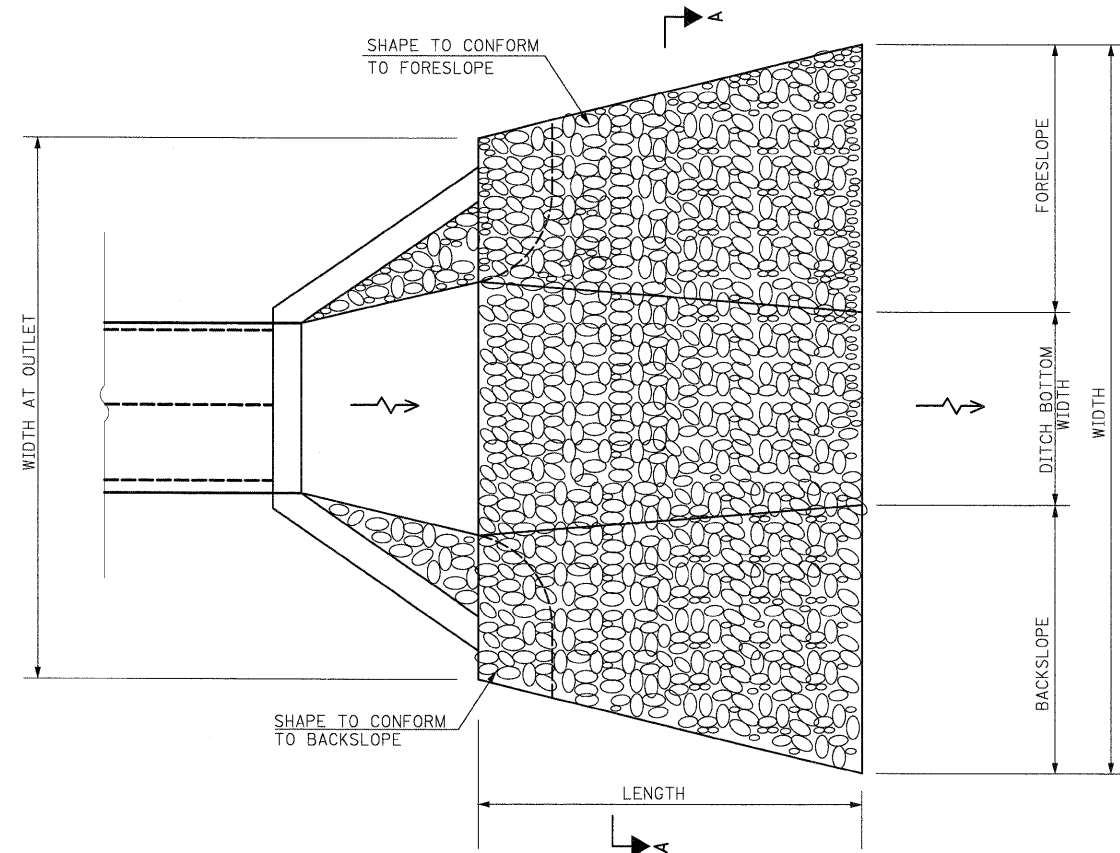
GRADATION	MIN. THICKNESS	BEDDING THICKNESS
RR3	12"	---
RR4	12"	6"



TEMPORARY STORM SEWER PLUGS

NOTES:

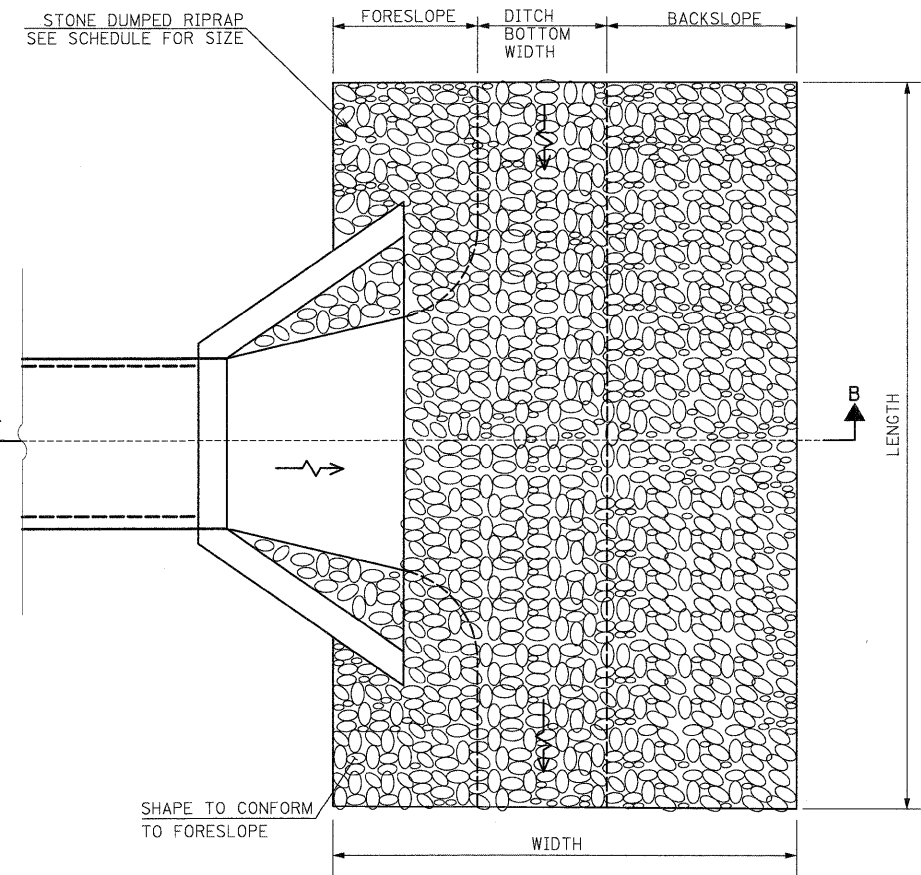
1. THIS WORK CONSISTS OF FURNISHING AND PLACING BRICKS AND MORTAR AS SHOWN OR DIRECTED BY THE ENGINEER AT LOCATIONS SHOWN ON THE PLANS TO TEMPORARILY PLUG THE EXISTING AND/OR PROPOSED STORM SEWER LATERAL STUBS. THIS PLUG WILL BE REMOVED BY OTHERS FOR FUTURE EXTENSION OF THE STORM SEWER, UNLESS OTHERWISE SHOWN ON PLANS.
2. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH "TEMPORARY STORM SEWER PLUGS".



PLAN

RIPRAP AT OUTLET ENDS OF CULVERTS

NOT TO SCALE



PLAN

RIPRAP AT OUTLET ENDS OF CULVERTS PERPENDICULAR TO DITCH

NOT TO SCALE

300 W. ADAMS ST.
 CHICAGO, IL 60606
 SINGH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 TEL: (312) 629-0240
 FAX: (312) 629-8449

FILE NAME = D160C31-SHT-09A1N21.cgn	USER NAME = TK1uagel	DESIGNED - PKT	REVISD -
		DRAWN - PKT	REVISD -
		CHECKED - CL	REVISD -
		DATE - 12/18/09	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIPRAP AND TEMPORARY STORM SEWER PLUG DETAILS

SCALE: NONE SHEET NO. 21 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	164
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	