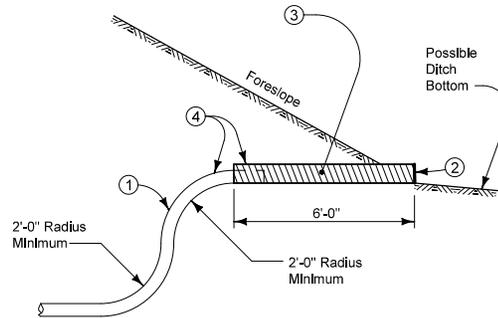
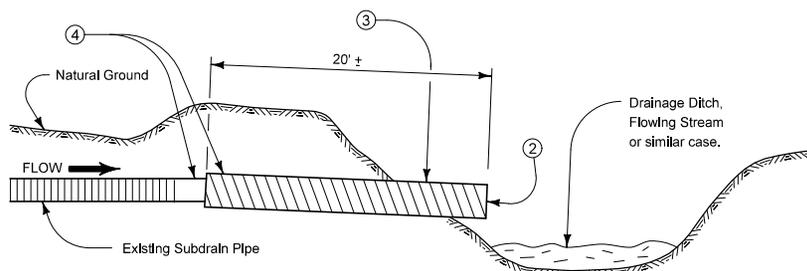


STANDARD SUBDRAIN OUTLET  
TYPE A  
For existing subdrain pipes 12" or less in diameter. ⑤

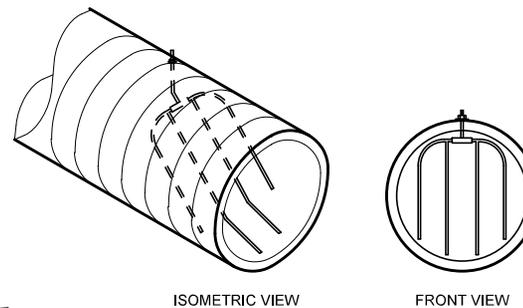


PRESSURE RELEASE OUTLET  
TYPE B

- ① Perforated Subdrain (Polyethylene Corrugated Tubing).
- ② Removable Rodent Guard (Appropriately sized to fit pipe).
- ③ If corrugated metal pipe is used, an outlet 2" larger than existing subdrain pipe is required. If double-walled PE or PVC pipe is used, an outlet pipe of the same diameter as the existing subdrain pipe may be used.
- ④ The pipes should be coupled in one of the two following ways: (1) Use an inside fit reducer coupler (coupler must be inserted a minimum of 12" into C.M.P.); or (2) Insert 12" of the existing subdrain pipe into the corrugated metal outlet pipe, then fully seal the entire opening with grout.
- ⑤ For existing subdrain pipes larger than 12" in diameter, use Special Outlet, Type C.



SPECIAL OUTLET  
TYPE C



REMOVABLE RODENT GUARD  
DETAILS

Possible Contract Item:  
Subdrain Outlet, (RF-19F)  
Possible Tabulation:  
104-5C

 Iowa Department of Transportation	REVISION	
	3	10-16-12
<b>STANDARD ROAD PLAN</b>	<b>RF-19F</b>	
SHEET 1 of 1		

REVISIONS: Modified notes, Added Possible Contract Items and Tabulation, Revised circle note 1.

*Deanna Mufield*  
APPROVED BY DESIGN METHODS ENGINEER

**SUBDRAIN OUTLETS  
(STANDARD SUBDRAIN,  
PRESSURE RELEASE AND SPECIAL)**