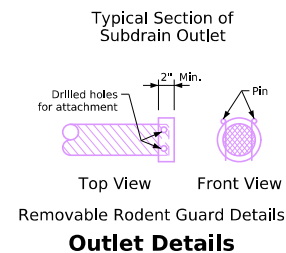
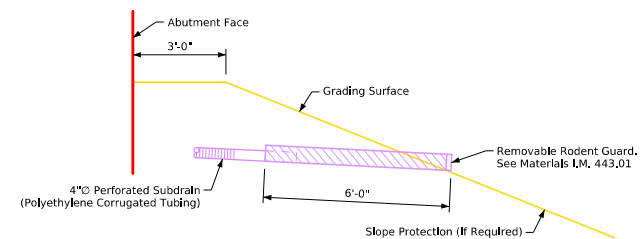


**Situation Plan**  
Refer to Situation Plan for North Arrow



### Subdrain Notes:

- See Situation Plan and Abutment Backfill Details for additional details of placement not shown on this sheet.
- The subdrains shall be 4"Ø and shall be in accordance with Article 4143.01, B, of the Standard Specifications.
- The subdrain outlet shall consist of a length of pipe with a removable rodent guard as detailed on this sheet. The length of the outlet pipe shall be determined by the revetment and it's placement location. The Contractor is to insure the outlet pipe is adequately strong enough and will not be damaged when revetment is placed. A check will be made at the subdrain outlet to insure that the subdrain is not damaged and is draining properly during the backfill flooding process. If a metal outlet pipe is used, it shall be 6"Ø and coupled to the 4"Ø subdrain in one of the two following ways.
  - Use an Inside fit reducer coupler (coupler must be inserted a minimum of 1'-0" into the metal outlet pipe).
  - Insert 1'-0" of the 4"Ø subdrain into the 6"Ø metal outlet pipe, then fully seal the entire opening with grout.
- The cost of furnishing and placing subdrain (including excavation), granular backfill, porous backfill, and subdrain outlet is to be included in the price bid for "Structural Concrete (Bridge)". No extra payment will be made.
- The dimensions shown for the proposed subdrains are based on the proposed grading layout of bridge berms. The dimensions shown are for estimating only. Required lengths and general locations of subdrains are subject to change due to field adjustments of the grading layout.

Latest Revision Date	IOWA DOT	
	Standard Design - 30'-0" Roadway, Single Span Bridge	
	Single Span Concrete Slab Bridges	
Approved By Bridge Engineer	July, 2025	
	Subdrain Details Integral Abutments	J30S-38-25