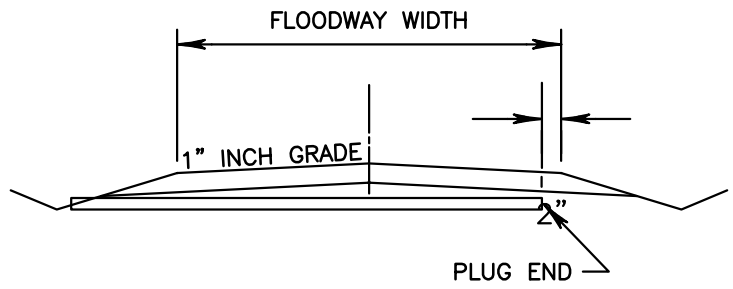
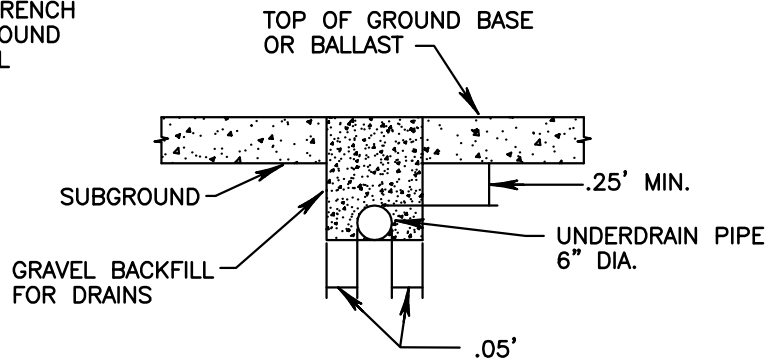


**PLAN**



**SECTION X-X**



**SECTION Y-Y**

**DETAIL NOTES**

Underdrains of this type shall be constructed after the gravel base and/or ballast is in place.

The spacing (X) shall be as required for the particular project, but not more than 500 feet on grades in excess of 2.5%.

The pattern may have to be varied in case of a special design for springs or free water in the subgrade.

The angle (A) shall vary to provide a minimum quadrant on the drain of 0.5%.

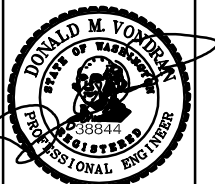
Directional roadways of multilane highways shall be drained independently of one another. Drainage flow should be away from the median (preferably).

Section Y - Y indicates the minimum required area of excavation. The contractor may, upon the approval of the City Engineer, excavate additional area, if required for convenience. However, no additional payment will be made over that provided for herein.

The pipe shall be a 6-inch minimum diameter underdrain pipe.



**City of Covington**  
Public Works  
Community Development



**FRENCH DRAIN  
UNDER ROAD**

This document has been signed electronically in accordance with WAC 196-23-070 and Chapter 19.34 RCW. Unauthorized alteration of any of the information on this document will invalidate the document, my certification and signature.

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Revision Date  
January 2010