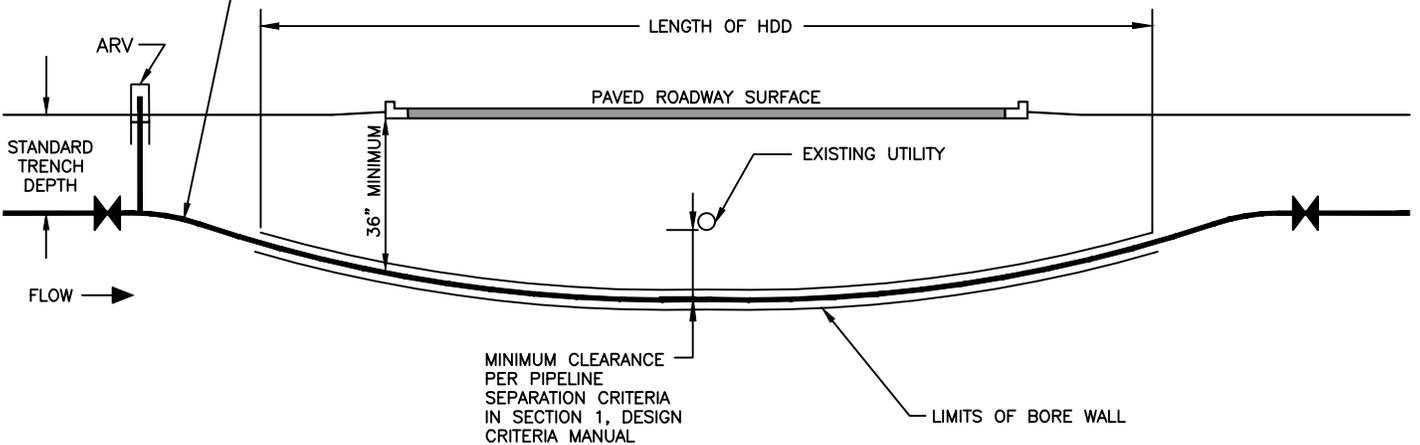


PLAN  
HORIZONTAL MINIMUM CLEARANCES

MAINTAIN MIN. BEND RADIUS OF 100X O.D. WITHIN 5X O.D. OF A VALVE OR FITTING AND 25X O.D. ELSEWHERE. OR PROVIDE A BEND (TYP).



PROFILE  
VERTICAL MINIMUM CLEARANCES

**HDD INSTALLATION NOTES:**

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE COLLIER COUNTY UTILITIES TECHNICAL SPECIFICATION SECTION 330523.13.
2. ALL HDD INSTALLATION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE FLORIDA D.O.T. UTILITY ACCOMMODATIONS MANUAL AND THE COLLIER COUNTY UTILITIES STANDARDS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED AGENCIES AND COORDINATION WITH ALL UTILITIES PRIOR TO CONSTRUCTION.
4. ALL CONSTRUCTION MATERIALS, INCLUDING DRILLING FLUID, SHALL BE REMOVED FROM THE SITE PRIOR TO RESTORATION OF DISTURBED AREAS.
5. PLACE ARV ON UPSTREAM SIDE. WHEN BIDIRECTIONAL FLOW CONDITIONS EXIST, AN ARV WILL BE REQUIRED AT EACH END OF THE HDD.
6. VALVES SHALL BE INSTALLED A MAXIMUM OF 20' FROM THE END OF ALL DIRECTIONAL DRILLS.

**TYPICAL HORIZONTAL DIRECTIONAL DRILL (HDD) UNDER A ROADWAY**

NTS

JULY 2018



SHEET NO.  
G-8