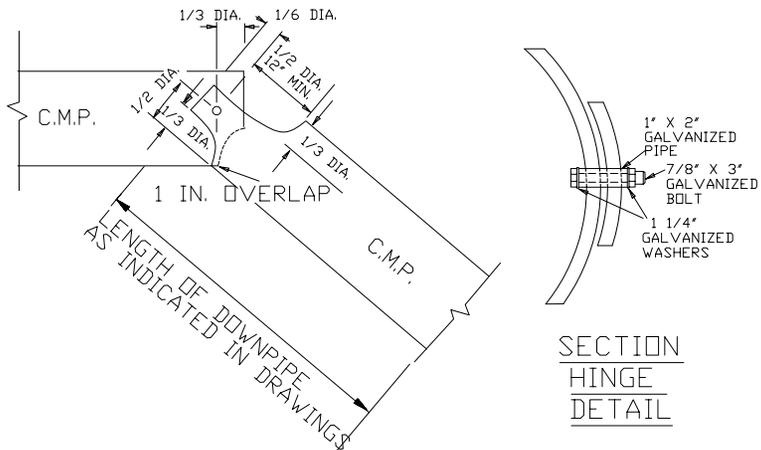


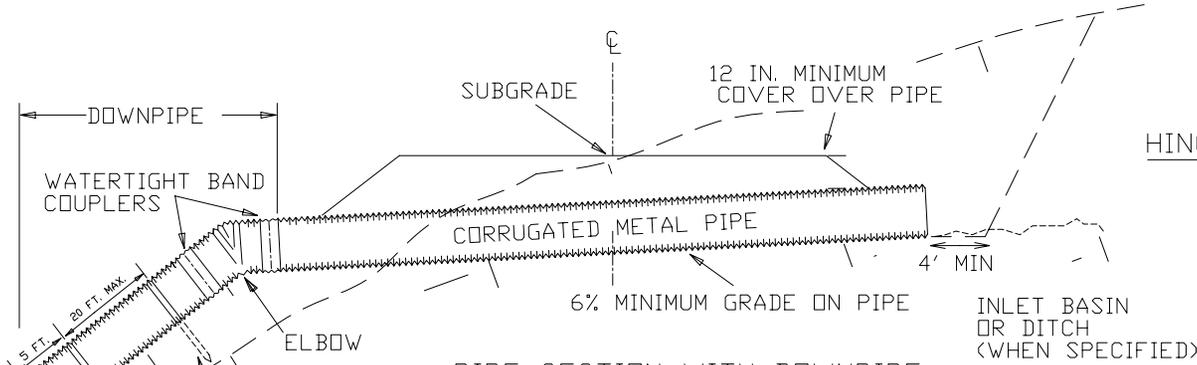
PIPE SECTION

HAND KEED PLACEMENT OF ROCK DISSIPATOR (WHEN SPECIFIED)

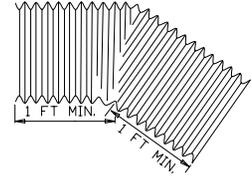


HINGED DOWNPIPE CONNECTOR  
SIDE VIEW

SECTION HINGE DETAIL



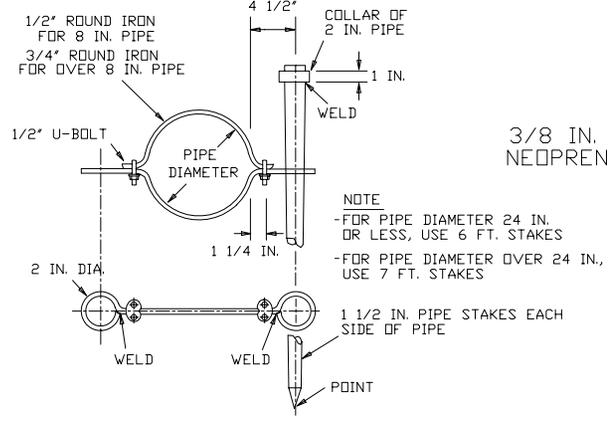
PIPE SECTION WITH DOWNPIPE



TYPICAL ELBOW DETAIL

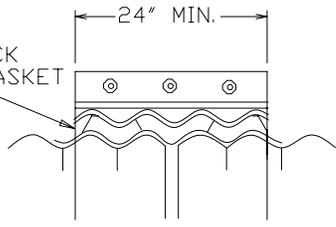
GENERAL NOTES

1. SUFFICIENT CAMBER SHALL BE PUT INTO PIPE TO ALLOW FOR SETTLEMENT.
2. COAT ALL UNGALVANIZED SURFACES DUE TO FACTORY OR FIELD CUTTING WITH MATERIALS SPECIFIED IN AASHTO M36.
3. AN ANCHOR ASSEMBLY SHALL CONSIST OF TWO PIPE STAKES AND NECESSARY HARDWARE. A MINIMUM OF TWO ANCHOR ASSEMBLIES WILL BE INSTALLED ON A DOWNDRAIN.
4. ALL PIPE STAKES AND HARDWARE SHALL BE GALVANIZED AFTER FABRICATION.
5. THE ANCHOR STAKES SHALL BE DRIVEN DOWN TO WHERE THE COLLAR IS FIRM AGAINST THE EYE OF THE IRON RING. IF THE ENGINEER DECIDES THE STAKE HAS REACHED A POINT OF REFUSAL BEFORE IT HAS REACHED THE PROPER DEPTH, THE STAKE SHALL BE CUT OFF A MAXIMUM OF 4" ABOVE THE EYE AND THE TOP OF THE STAKE FLATTENED SO IT WILL NOT PASS THRU THE EYE.
6. WHEN STEEL ANCHOR ASSEMBLIES ARE USED ON AN ALUMINUM DOWNDRAIN, A NEOPRENE GASKET IS REQUIRED TO INSULATE THE PIPE FROM THE ANCHOR.
7. ALL ELBOWS, TEES AND REDUCERS SHALL HAVE A 12" MINIMUM STRAIGHT PIPE SECTION TO ACCOMMODATE BAND COUPLERS UNLESS ARMCO STEEL HUGGER JOINTS ARE USED.
8. ALL BAND COUPLERS ON DOWNPIPES SHALL BE 24" WIDE UNLESS ARMCO STEEL HUGGER JOINTS ARE USED. BOTH SYSTEMS SHALL BE WATERTIGHT.
9. THE USE OF COUPLING BANDS WITH 'DIMPLE PROJECTIONS' IS STRICTLY PROHIBITED ON ANY C.M.P. OR DOWNPIPE INSTALLATIONS.

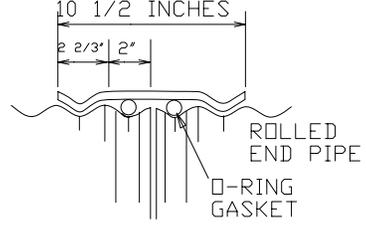


ANCHOR ASSEMBLY

3/8 IN. THICK NEOPRENE GASKET



STANDARD METAL COUPLING BAND WITH NEOPRENE GASKET



HUGGER TYPE JOINT WITH O-RING GASKET

WATERTIGHT COUPLING BANDS

CULVERT INSTALLATION DETAIL

DATE: 12/31/91

DRAWINGS ARE NOT TO SCALE