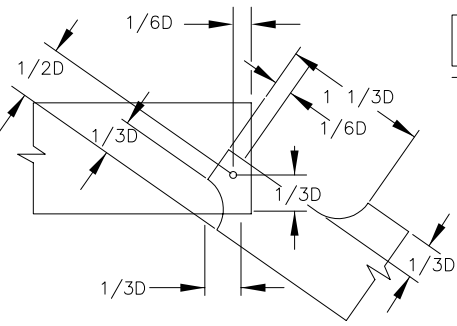
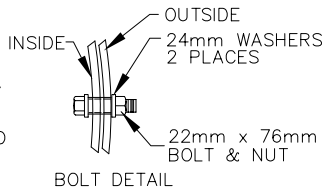


DRAINAGE DETAILS

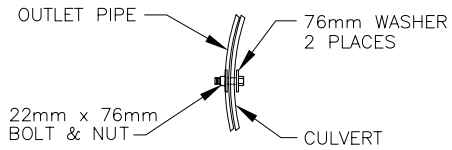
PROJECT	SHEET	TOTAL SHEETS
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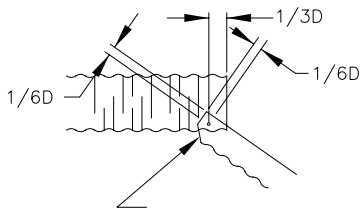
SIDE VIEW
HINGED ELBOW



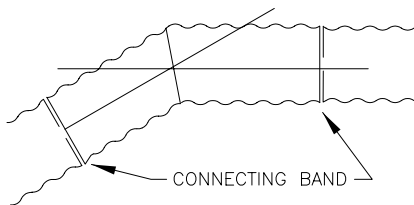
BOLT DETAIL



OUTLET PIPE CONNECTION



HALF CIRCLE
OUTLET PIPE CONNECTION

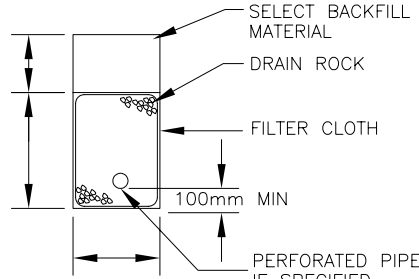


FITTINGS WILL HAVE SUFFICIENT LENGTH FOR ATTACHING STANDARD CONNECTING BANDS

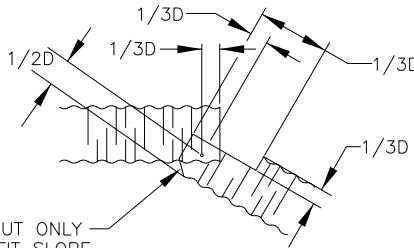
SEE CULVERT LISTING SHEET AND CULVERT CONSTRUCTION DETAILS SHEET FOR SPECIAL ANCHORING.

REGULAR ELBOW

FILTER CLOTH TO CONFORM WITH TABLE 720-1 FOR LIGHT RIPRAP DRAINAGE

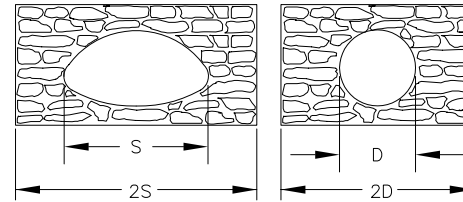


UNDERDRAIN DETAILS



VARIABLE - CUT ONLY IF REQ'D TO FIT SLOPE

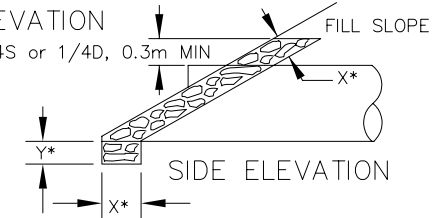
FULL CIRCLE
OUTLET PIPE CONNECTION



FRONT ELEVATION

*VARIES W/ PIPE D OR S

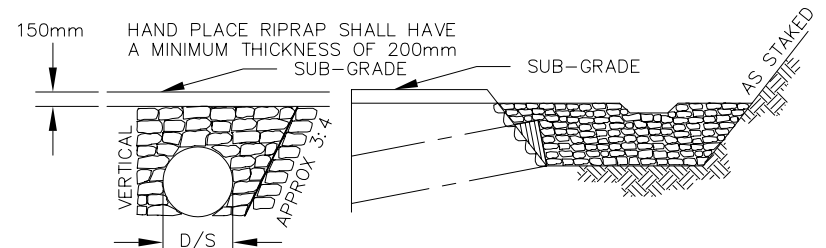
D OR S	X	Y
450mm-500mm		
800mm-1600mm		
1600mm-2400mm		
MORE THAN 2400mm		



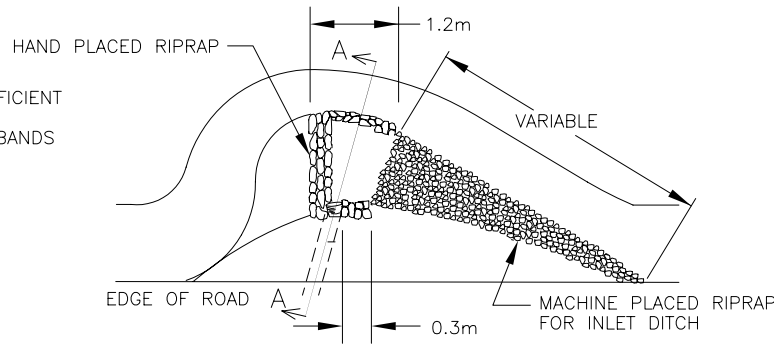
SIDE ELEVATION

GROUTED OR HAND-PLACED
RIPRAP HEADWALLS

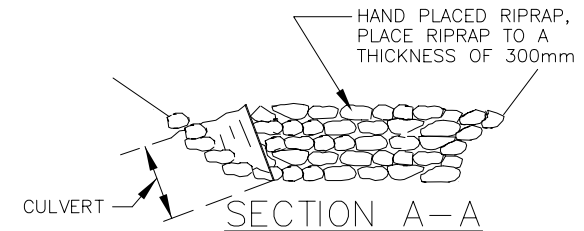
NOTE: IN NARROW CHANNELS ADJUST RIPRAP STREAM



DITCH RELIEF HEADWALL DETAIL



INLET RIPRAP FOR TYPE
2 & 3 INSTALLATION



SECTION A-A