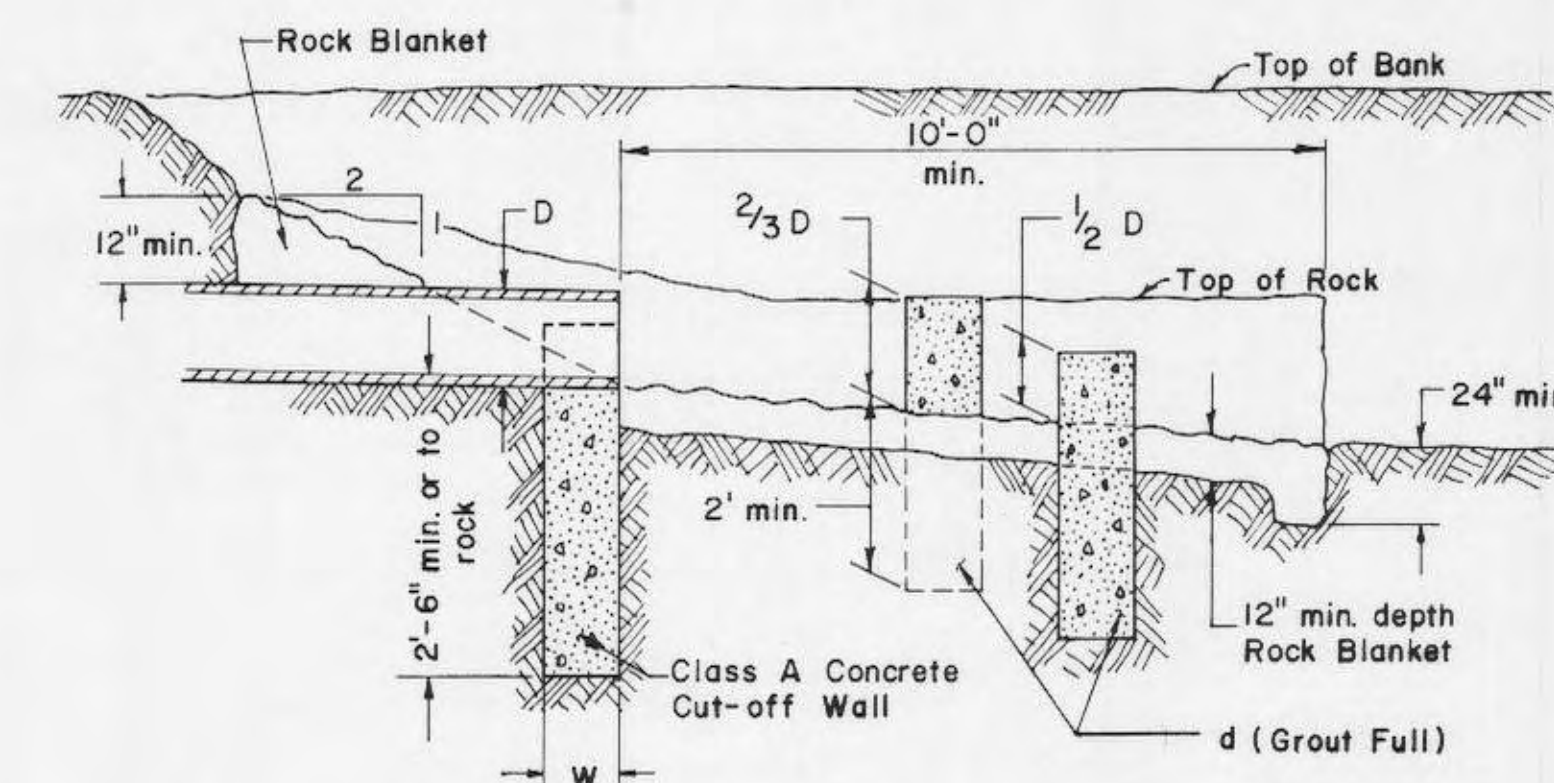


PLAN VIEW

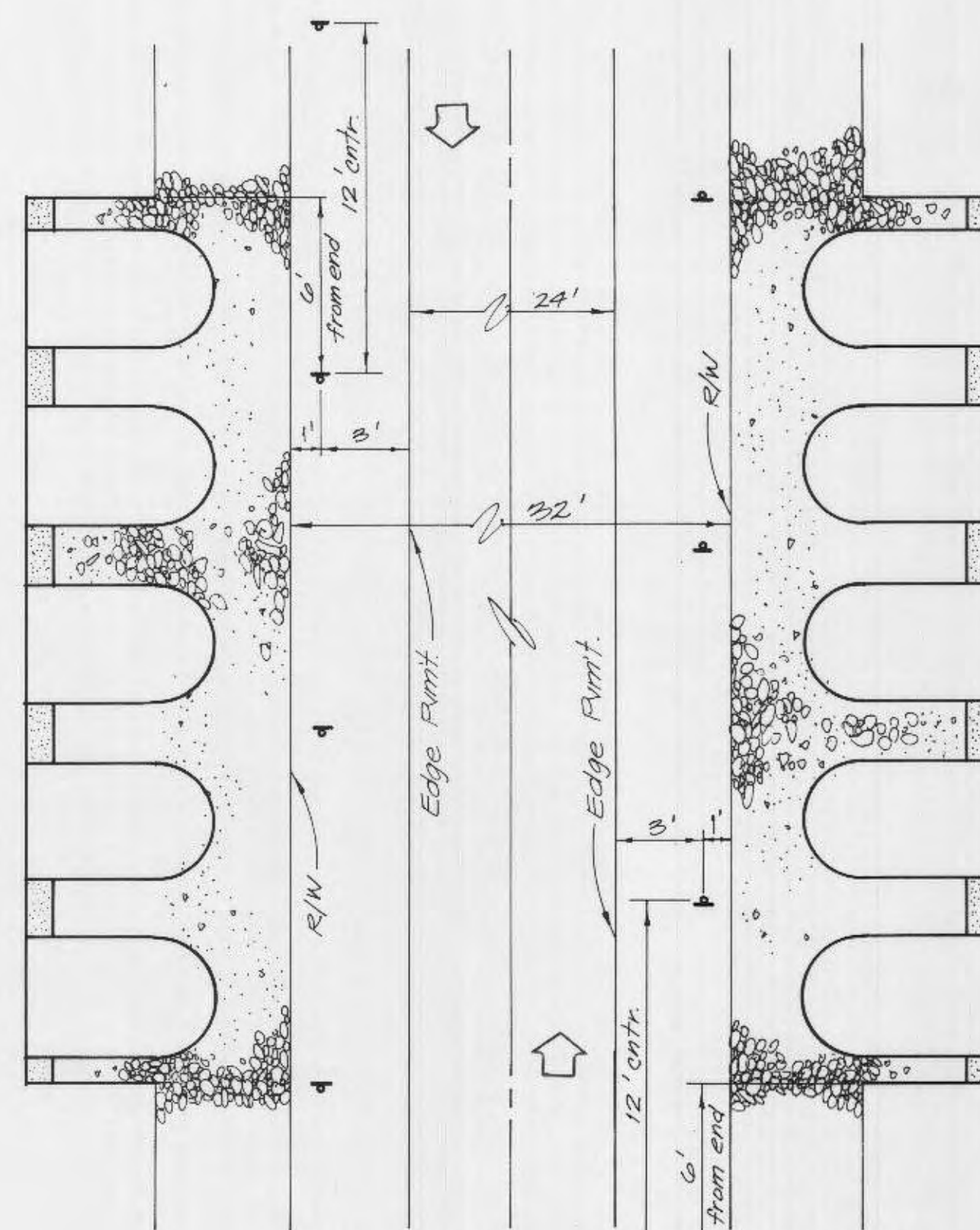
D = 21"
d = 12"
X = 12"
Z = 12"



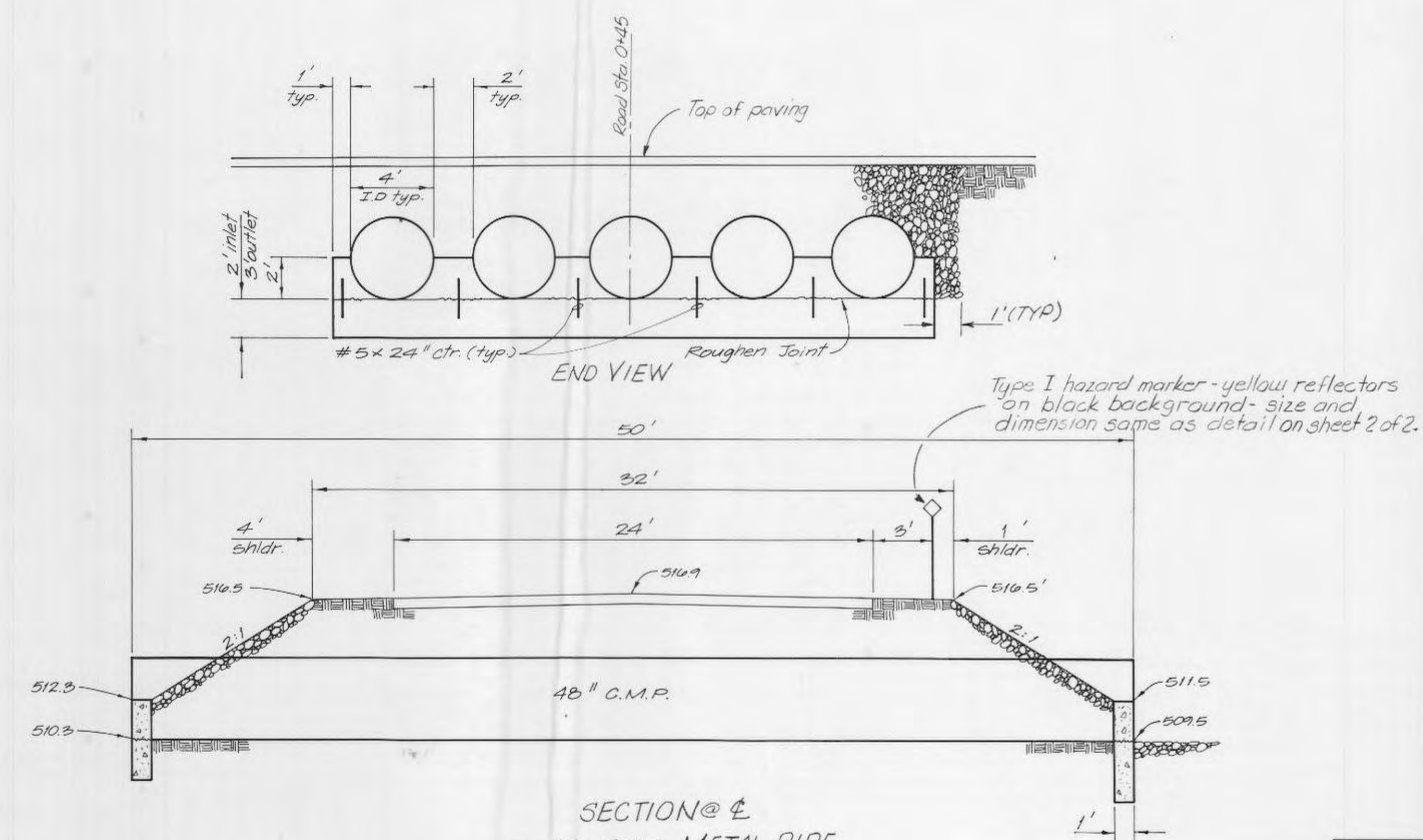
SECTION A-A

D = 21" W = 8" d = 12"

End of Pipe with Energy Dissipator
FOR 12" - 18" CULVERTS



TYR. MARKER SPACING



SECTION @ E
5 - 48" CORR. METAL PIPE