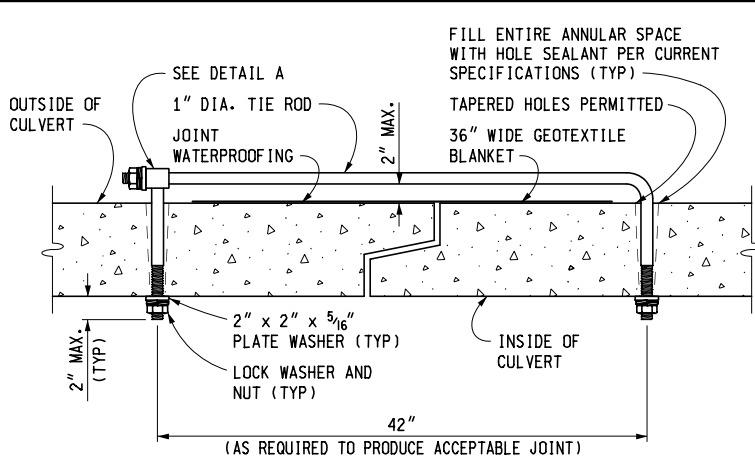
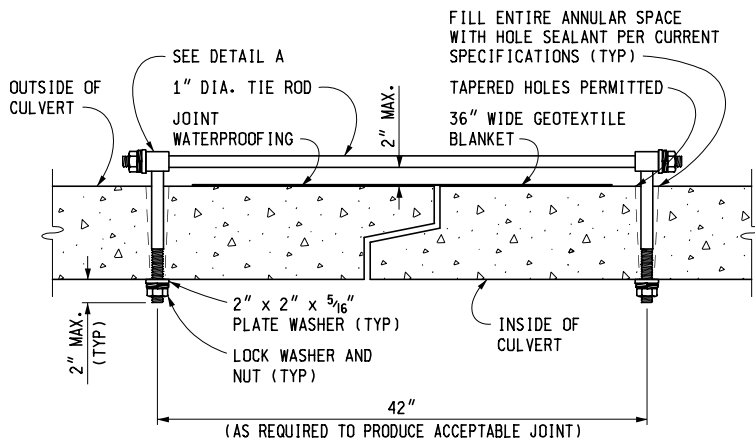
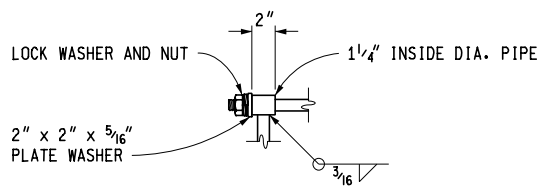




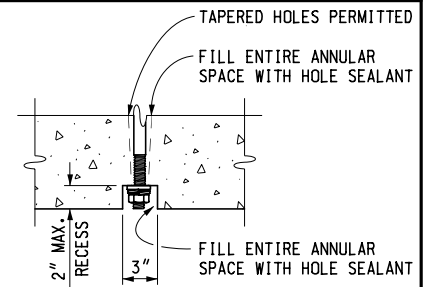
SECTION A-A
SINGLE CONNECTION TIE



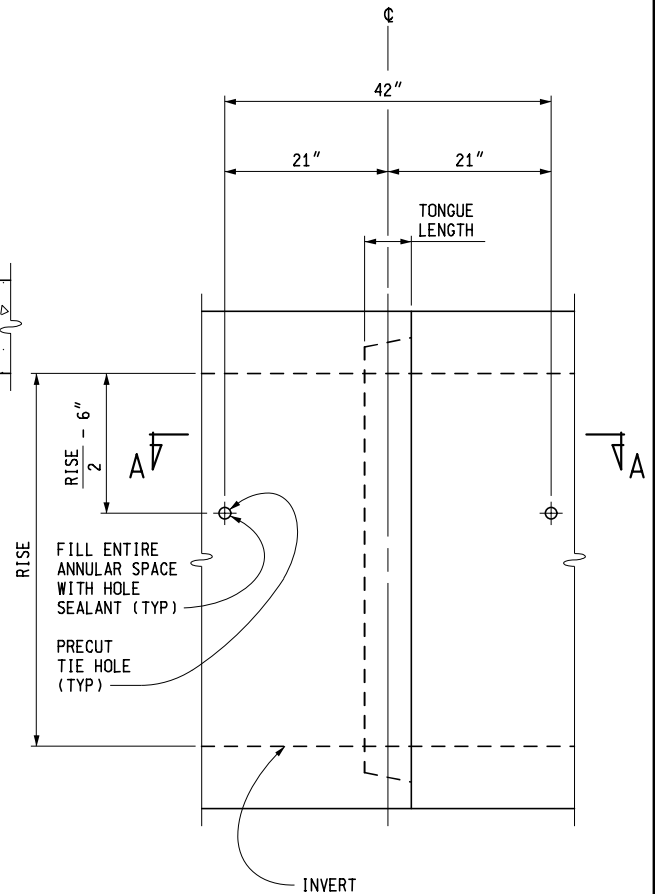
SECTION A-A
DOUBLE CONNECTION TIE



DETAIL A



OPTIONAL RECESS DETAIL



BOX CULVERT
TIE HOLE LOCATION

NOTES:

JOINT TIE ASSEMBLIES ARE LOCATED ON THE SIDES OF CULVERTS ONLY.

JOINT TIE ASSEMBLIES TO BE USED TO ONLY HOLD CULVERT SECTIONS TOGETHER, NOT FOR PULLING SECTIONS TIGHT.



PREPARED
BY
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MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

BOX CULVERT
JOINT TIE ASSEMBLIES

5-18-2020
F.H.W.A. APPROVAL

6-20-2019
PLAN DATE

R-84-A

SHEET
1 OF 1