



XX" P	ipe Inle	t Data				
Station	Offset	F.L. Elev				
xx+xx.xx	xx.xx' XX	xxx.xx				
xx+xx.xx	xx xx XX	xxx.xx				
xx+xx.xx	xx xx XX	xxx.xx				

Pipes With Different Diameters

l	Ρi	pe Inle	t Da	ata
	Station	Offset	Dia.	F.L. Elev.
	xx+xx.xx	xx xx XX	××"	xxx.xx
	xx+xx.xx	xx xx XX	××"	xxx.xx
	xx+xx.xx	xx.xx' XX	xx"	xxx.xx

Inlets Sized for Elevation A-A (Pipe Diameter/Culvert HT)

0.1 0.2 0.3 0.4 0.5

0.6 0.7 0.8 0.9

Ex: Use 0.5 detail for 36" pipe into a 6' tall culvert.

Supplemental Reinforcement Table (Nonstandard culverts with only one design fill height) 5

	Top Slab Reinforcement									Bottom Slab Reinforcement						Wall Reinforcement										
	Α1	Bars		J	3 Bars			H1 B	ars		H2 B	ars	A2	Bars		J	4 Bars			нз в	ars	В1	Bars	В2	2 Bar	S
	Sz	Spa.	Sz.	Spa.	C1	K2	Sz.	Spa.	C5	Sz.	Spa.	C6	Sz.	Spa.	Sz.	Spa.	C4	К3	Sz.	Spa.	C7	Sz.	Spa.	Sz.	Spa.	G1
											×	×														
l	Substitute table for tables shown on Standard Plan 703.47																									

Standard Drawing Guidance (Do not show on plans. Turn off the Bridge Construction level to hide)

Some details have been grouped together to allow easy substitution with alternate details. To edit grouped details, select them and press <Ctrl> U.

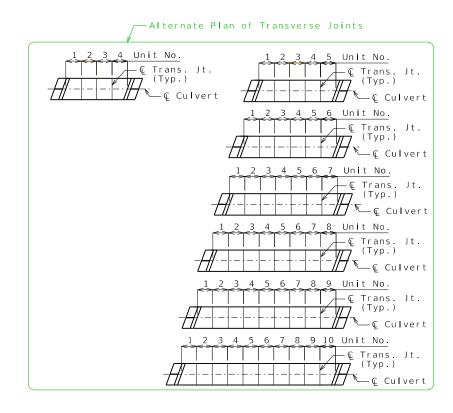
- ① Ahead station is shown for streams flowing left to right. Arrow must be flipped for streams that flow right to left.
- 2 Modify Estimated Quantities as required. Don't leave blank rows but leave space between Estimated Quantities and General Notes for at least one pay item to be added during construction. See Alternate Details for culvert extensions, or if five items are required.
- 3 Add any required transverse joints proportionally spaced along barrel. Label units and add actual lengths of units along the barrel.
- 4 Insert STD 703.60 when pipe inlets are required. Add pipe inlets to Plan of Layout Dimensions at appropriate locations and to Elevation A-A if visible from elevation. Add inlet data using notes where space allows, or use tables.
- (5) For nonstandard culverts with only one design fill height, add supplemental reinforcement table.
- (6) No need to revise General Elevation A-A for dual roadways. In Fill Heights table add a lane designation after C Rdwy and insert another row for the other lane.

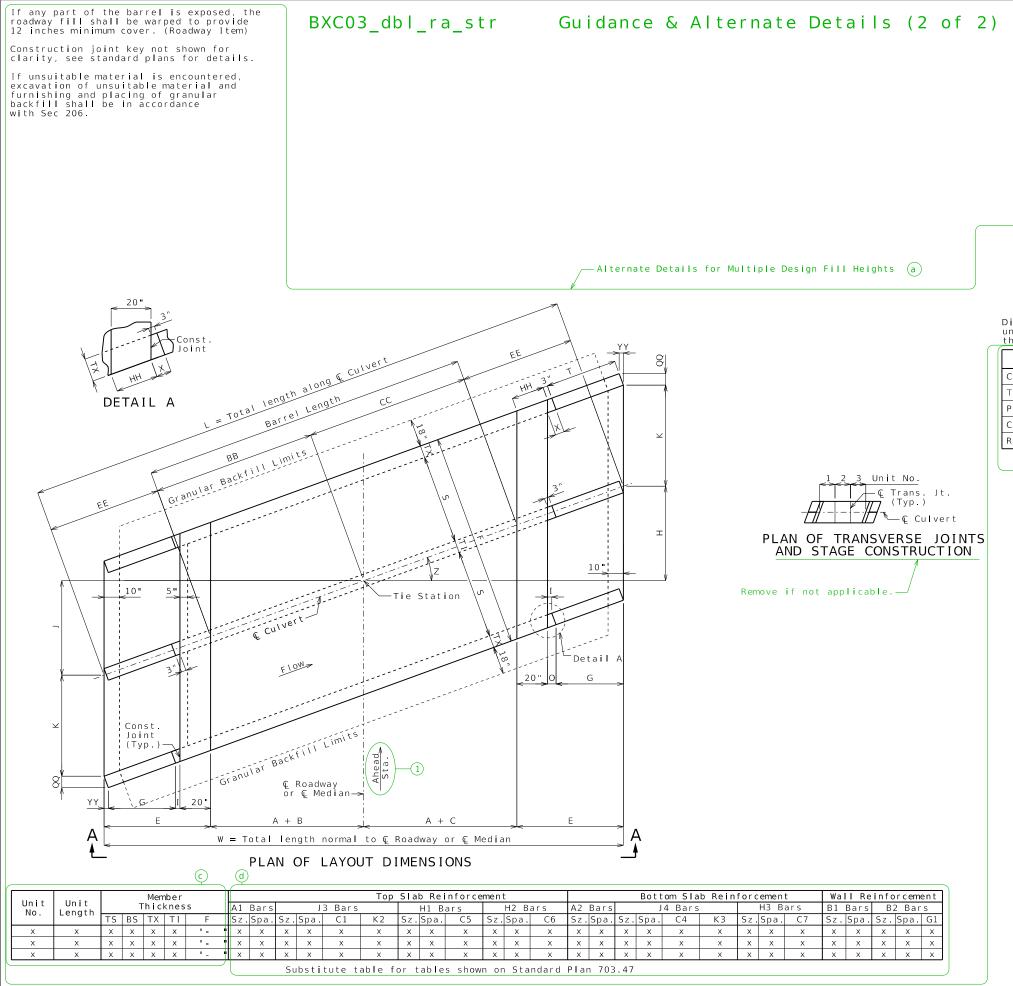
*** VARIABLE DESIGN FILL HEIGHTS ***

(a) Select and delete the details grouped with the Fill Heights table. Select and move the alternate grouped details to drawing.

— Supplemental Pipe Inlet Details (4)

- (b) Place "See Member Thickness table" in the Equation column and place "Varies" in the Dim. column. If Dimension F varies, place "Varies" in the Dim.
- © Remove blank rows. End units may have different design fill heights but both units need to have the same member thicknesses.
- d This portion of table required when design fill height exceeds limits of the standard plans or when culvert cell height or span is not standard. If only a portion of the units are nonstandard, fill out entire table using the values from the standard table where applicable. Omit if not required.





Corresponds to the border of the standard drawing for ease in moving alternate details (Snap to corner) -

	Fill	He	ights	
€ Rdwy	at Ç Cu∣	vert	=	ft
	(Units 1			ft
Design	(Units	&) =	ft
Design	(Units	&) =	ft

2

Dimensions are based on end units, except AA is based on Unit . Fill heights are measured from the top of top slab to the top of earth fill or roadway.

Estimated Quantitie	Estimated Quantities						
Class 4 Excavation	cu. yard	х					
Temporary Shoring	lump sum	1					
Partial Removal of Culvert-Bridge Concrete	lump sum	1					
Class B-1 Concrete (Culverts-Bridge)	cu. yard	×					
Reinforcing Steel (Culverts-Bridge)	pound	×					

-Alternate Estimated Quantities for Culvert Extensions or when Five Items are Required