



CULVERT ANALYSIS

PID : 122339 **Date :** 12/13/2024 **Project :** ATB/TRU-CULVERTS-FY26 **Location :** ATB-193-11.140

Description : Proposed Culvert Design - Arch

Designer : MEP

HEADWATER CONTROL CODES: INLET - Inlet Control.
OUTLET - Outlet Control.
OUTLET* - Outlet Control with backwater curve used to compute headwater. See Figure III - 7E in HDS 5 for type flow.
OUTLET** - Outlet Control - See Figure III - 7D in HDS 5 for type flow.
N/A - Flow is supercritical with low headwater and low tailwater. Control Section is at the inlet.

Pipe Number : 1	Use HW : 0	Inlet Invert Elevation (ft.) : 966.30	Outlet Invert Elevation (ft.) : 966.00
Pipe Quantity : 1			
Culvert Type : Pipe Arch		Pipe Length (ft.) : 40.00	Culvert Slope (ft./ft.) : 0.0075
Corrugation Type : Corrugated Metal Arch Pipe (2 2/3 x 1/2 in. corrugations)			
Pipe Size : 77 x 52 in.			
Design Manning 'n' : (default)			
Entrance Type : Full Headwall		Loss Coef. Ke : 0.2500	

	FLOW (cfs.)	HEAD LOSS (ft.)	HWI (ft.)	HWO (ft.)	FLOW TYPE	VELOCITY (fps.)	DN (ft.)	DC (ft.)	MANNING N	HEADWATER CONTROL	BURIED DEPTH (ft.)	TAILWATER ELEVATION (ft.)
	101.00	1.66	969.83	969.74	1 - C	6.82	2.52	2.16	0.0231	INLET	0.00	966.50
	111.00	1.77	970.05	969.96	1 - C	6.98	2.72	2.29	0.0231	INLET	0.00	966.50
	121.00	1.87	970.28	970.19	1 - C	7.12	2.92	2.41	0.0231	INLET	0.00	966.50
	131.00	1.99	970.52	970.41	1 - C	7.23	3.14	2.53	0.0231	INLET	0.00	966.50
	141.00	2.12	970.76	970.63	1 - C	7.30	3.39	2.64	0.0231	INLET	0.00	966.50
	151.00	2.26	971.01	970.84	1 - C	7.23	3.77	2.75	0.0231	INLET	0.00	966.50
	161.00	2.41	971.26	971.07	1 - C	7.70	3.78	2.85	0.0231	INLET	0.00	966.50
	171.00	2.58	971.54	971.29	2 - E	7.71	4.33	2.95	0.0231	INLET	0.00	966.50



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181.00	2.77	971.82	971.51	2 - E	8.16	4.33	3.05	0.0231	INLET	0.00	966.50
191.00	2.38	972.12	971.76	2 - E	8.61	4.33	3.14	0.0231	INLET	0.00	966.50