



CULVERT ANALYSIS

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

Description : Proposed Culvert Design - Smooth

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 : Circular Smooth		Pipe Length (ft.) : 40.00	Culvert Slope (ft./ft.) : 0.0075
Corrugation Type :			
Pipe Size : 60 in.			
Design Manning 'n' : (default)			
Entrance Type : Full Headwall		Loss Coef. Ke : 0.2000	

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	0.54	970.42	N/A	1 - C	8.70	2.24	2.86	0.0120	INLET	0.00	966.50
111.00	0.66	970.65	N/A	1 - C	9.00	2.36	3.01	0.0120	INLET	0.00	966.50
121.00	0.81	970.88	N/A	1 - C	12.41	2.49	3.14	0.0120	INLET	0.00	966.50
131.00	0.98	971.12	N/A	1 - C	12.66	2.61	3.28	0.0120	INLET	0.00	966.50
141.00	1.15	971.35	N/A	1 - C	12.89	2.73	3.40	0.0120	INLET	0.00	966.50
151.00	1.34	971.60	N/A	1 - C	13.10	2.84	3.52	0.0120	INLET	0.00	966.50
161.00	1.53	971.85	N/A	1 - C	13.29	2.96	3.64	0.0120	INLET	0.00	966.50
171.00	1.74	972.12	N/A	1 - C	13.47	3.08	3.75	0.0120	INLET	0.00	966.50



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181.00	1.97	972.40	972.17	2 - E	13.63	3.20	3.85	0.0120	INLET	0.00	966.50
191.00	2.21	972.69	972.42	2 - E	13.76	3.33	3.95	0.0120	INLET	0.00	966.50