



CULVERT ANALYSIS

PID : 122339 **Date :** 12/19/2024 **Project :** ATB/TRU-CULVERTS-FY26 **Location :** TRU-193-23.897

Description : Proposed Culvert Design - Elliptical

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.) :** 1063.80 **Outlet Invert Elevation (ft.) :** 1062.70
Pipe Quantity : 1
Culvert Type : Elliptical **Pipe Length (ft.) :** 40.00 **Culvert Slope (ft./ft.) :** 0.0275
Corrugation Type :
Pipe Size : 48 x 76 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.)
110.00	1.45	1067.39	N/A	1 - C	18.53	1.31	2.48	0.0120	INLET	0.00	1062.70
136.50	1.87	1067.96	N/A	1 - C	19.81	1.46	2.78	0.0120	INLET	0.00	1062.70
163.00	2.33	1068.56	N/A	1 - C	20.94	1.61	3.05	0.0120	INLET	0.00	1062.70
189.50	2.87	1069.21	1068.10	2 - E	21.90	1.75	3.28	0.0120	INLET	0.00	1062.70
216.00	3.51	1069.95	1068.73	2 - E	22.78	1.88	3.48	0.0120	INLET	0.00	1062.70