



CULVERT ANALYSIS

PID : 118153 **Date :** 03/20/2024 **Project :** Columbiana County Culvert **Location :** Columbiana County COL-644-7.96
Description : Culvert analysis for Columbiana County COL-644-7.96 **Designer :** GAN

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.) :** 1110.82 **Outlet Invert Elevation (ft.) :** 1108.00
Pipe Quantity : 1
Culvert Type : Circular Smooth **Pipe Length (ft.) :** 124.00 **Culvert Slope (ft./ft.) :** 0.0227
Corrugation Type :
Pipe Size : 30 in.
Design Manning 'n' : (default)
Entrance Type : Half Headwall **Loss Coef. Ke :** 0.2000

FLOW	HEAD	HWI	HWO	FLOW	VELOCITY	DN	DC	MANNING	HEADWATER	BURIED	TAILWATER
(cfs.)	LOSS	(ft.)	(ft.)	TYPE	(fps.)	(ft.)	(ft.)	N	CONTROL	DEPTH	ELEVATION
	(ft.)									(ft.)	(ft.)
27.65	1.07	1113.55	1114.96	2 - G	5.63	1.12	1.79	0.0120	OUTLET	0.00	1113.89
38.72	2.10	1114.49	1117.42	2 - G	7.89	1.36	2.10	0.0120	OUTLET	0.00	1115.32