

# Culvert Report

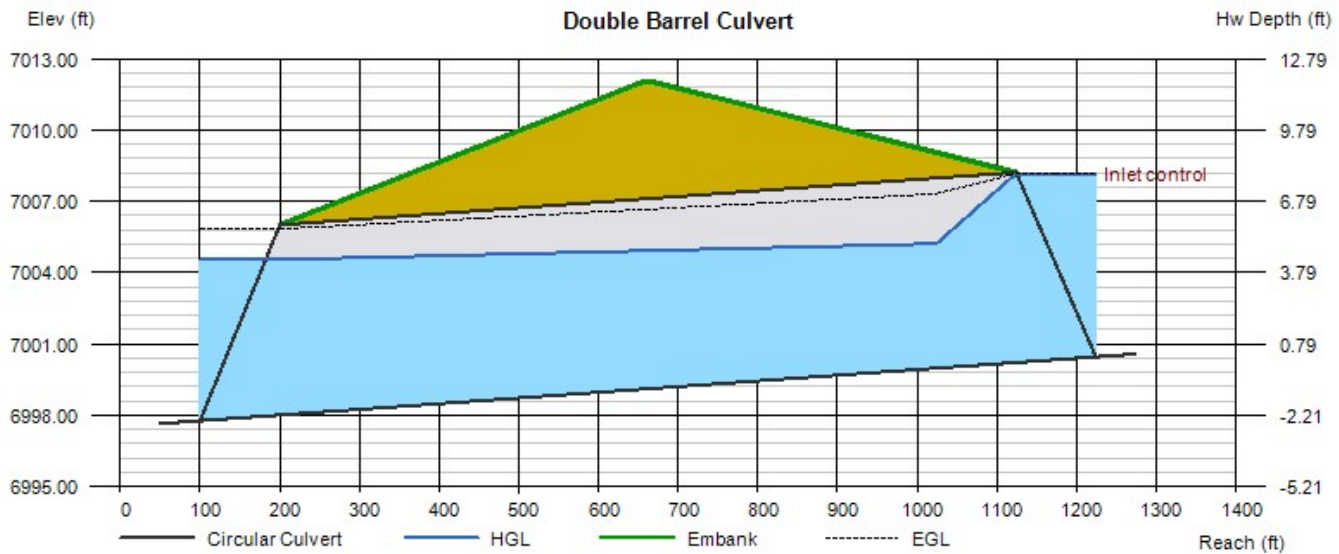
## Double Barrel Culvert

Invert Elev Dn (ft)	= 6998.00
Pipe Length (ft)	= 924.00
Slope (%)	= 0.24
Invert Elev Up (ft)	= 7000.21
Rise (in)	= 96.0
Shape	= Circular
Span (in)	= 96.0
No. Barrels	= 2
n-Value	= 0.012
Culvert Type	= Circular Corrugate Metal Pipe
Culvert Entrance	= Mitered to slope (C)
Coeff. K,M,c,Y,k	= 0.021, 1.33, 0.0463, 0.75, 0.7

<b>Embankment</b>	
Top Elevation (ft)	= 7012.00
Top Width (ft)	= 15.00
Crest Width (ft)	= 20.00

<b>Calculations</b>	
Qmin (cfs)	= 800.00
Qmax (cfs)	= 900.00
Tailwater Elev (ft)	= (dc+D)/2

<b>Highlighted</b>	
Qtotal (cfs)	= 800.00
Qpipe (cfs)	= 800.00
Qovertop (cfs)	= 0.00
Veloc Dn (ft/s)	= 9.09
Veloc Up (ft/s)	= 11.88
HGL Dn (ft)	= 7004.54
HGL Up (ft)	= 7005.29
Hw Elev (ft)	= 7008.16
Hw/D (ft)	= 0.99
Flow Regime	= Inlet Control



Q			Veloc		Depth		HGL			
Total	Pipe	Over	Dn	Up	Dn	Up	Dn	Up	Hw	Hw/D
(cfs)	(cfs)	(cfs)	(ft/s)	(ft/s)	(in)	(in)	(ft)	(ft)	(ft)	
100.00	100.00	0.00	1.56	6.25	58.37	20.75	7002.86	7001.94	7002.55	0.29
200.00	200.00	0.00	2.87	7.59	62.80	29.61	7003.23	7002.68	7003.60	0.42
300.00	300.00	0.00	4.05	8.54	66.26	36.53	7003.52	7003.25	7004.47	0.53
400.00	400.00	0.00	5.15	9.33	69.22	42.43	7003.77	7003.75	7005.25	0.63
500.00	500.00	0.00	6.20	10.03	71.85	47.70	7003.99	7004.19	7005.98	0.72
600.00	600.00	0.00	7.19	10.67	74.23	52.46	7004.19	7004.58	7006.69	0.81
700.00	700.00	0.00	8.16	11.29	76.43	56.86	7004.37	7004.95	7007.40	0.90
800.00	800.00	0.00	9.09	11.88	78.47	60.95	7004.54	7005.29	7008.10	0.99
900.00	900.00	0.00	10.01	12.47	80.39	64.78	7004.70	7005.61	7008.80	1.07