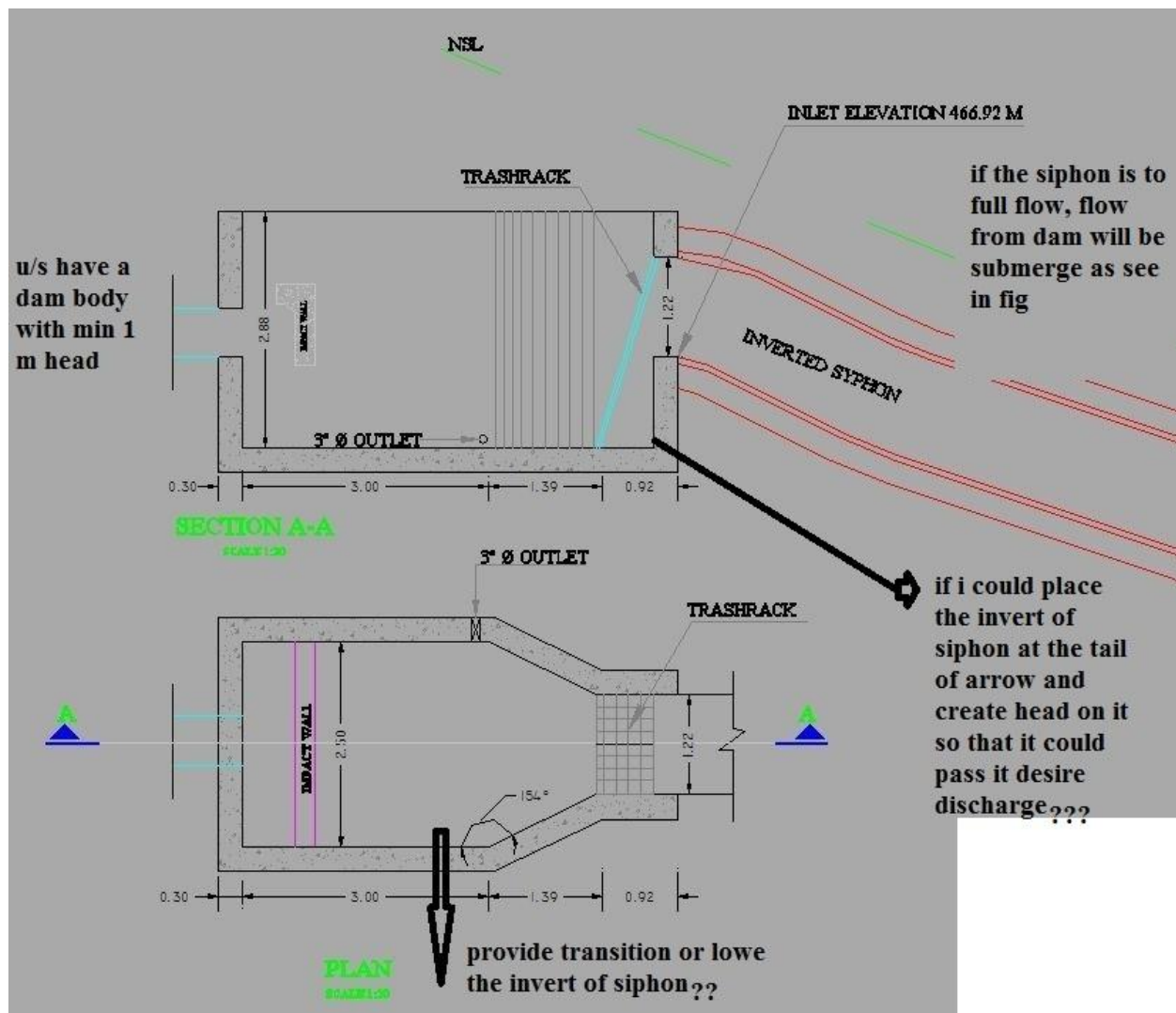
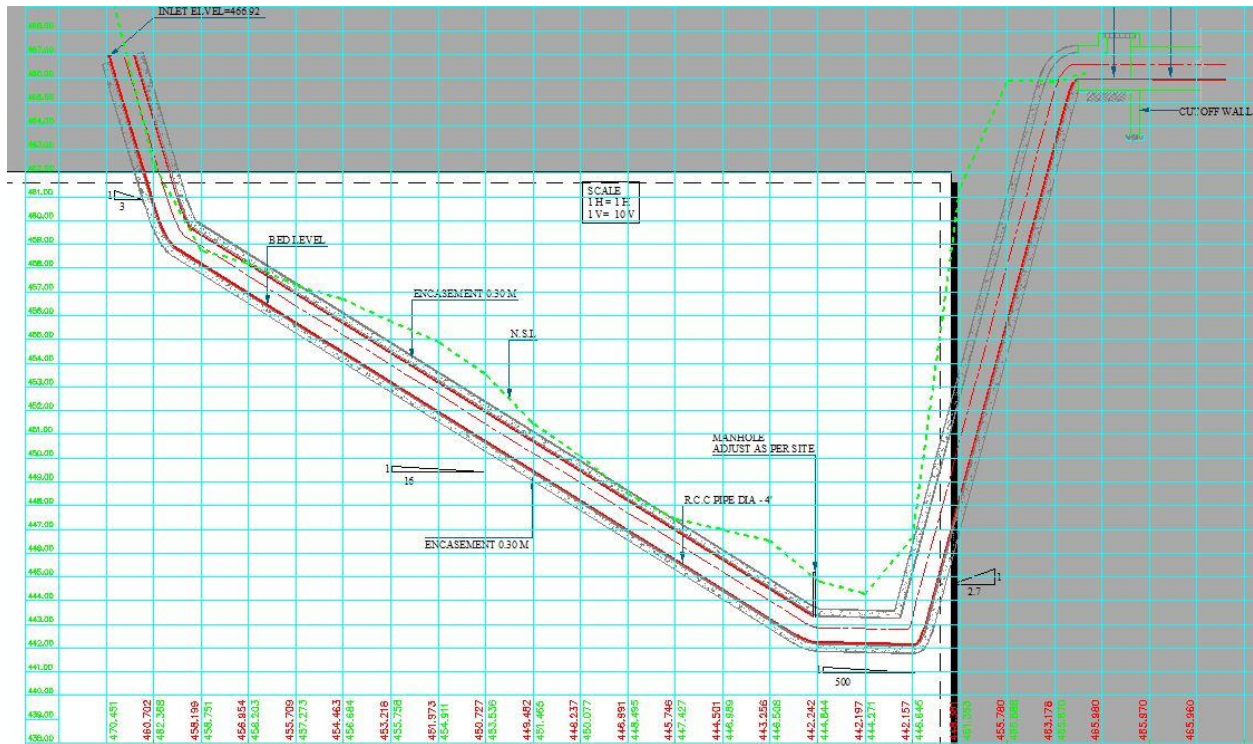


Inlet configuration



Profile with horizontal 1:1 scale and vertical 1: 10 scale



Design calculations

		Input Data		Design Calculations 1	
Head loss in siphon	Q	Discharge in siphon	54 cusec	area of pipe	12.56 ft ²
	d _i	depth in open channel	2.5 ft	velocity in pipe	4.30 ft/sec
	v _i	velocity in open channel	2.5 ft/sec	perimeter	12.56 ft
	D	Dia of siphon	4 ft	hydraulic radius	1 ft
	L	length of siphon	1396.68 ft	head in open channel	0.10 ft
	n	manning	0.013	head in pipe	0.29 ft
		add 20 % to manning	0.016	frictional loss	2.86 ft
	F _b	normal free baord	1 ft	ent loss	0.09 ft
		add. Freeboard*	1.5 ft	exit loss	0.13 ft
	h _{en}	enter loss coefficient loss	0.5	bend loss	0.05 ft
		no. of trash racks	1	trash rack loss	0.01 ft
	h _{ex}	exit loss coefficient	0.7	total	3.13 ft
		bend loss coefficient	0.04	10% in addition	0.31 ft
		no. of bends	4	total	3.44 ft
	U/S F.S.L	m	466.92	LOSS IN METER	1.05
	D/S F.S.L	m	465.87		