

Pipe to storage pond -
Buried _____" dia. sch. 40 PVC

Concrete well :
_____ " dia. precast concrete manhole,
height = _____'

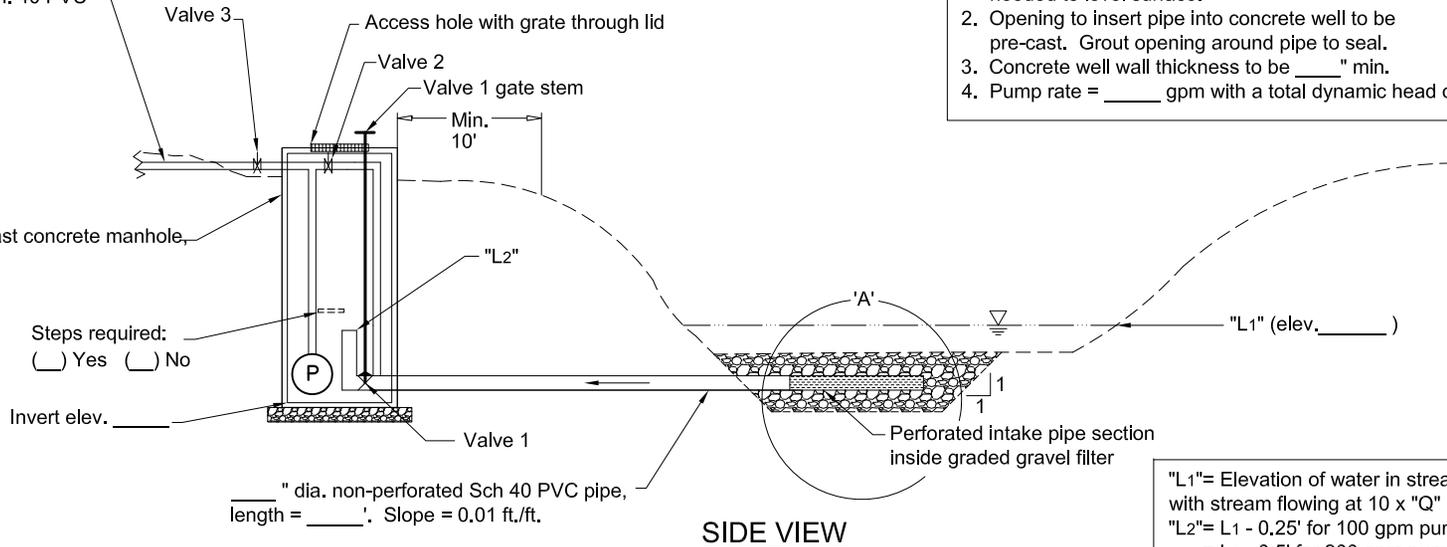
Steps required:
 Yes No

Invert elev. _____

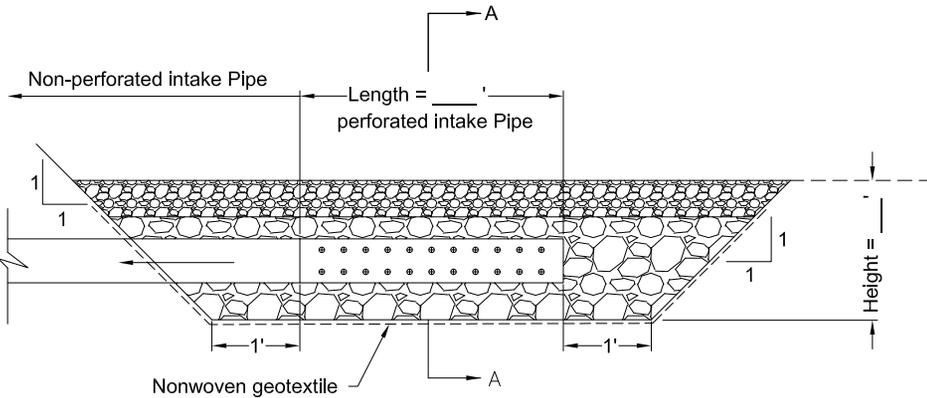
_____ " dia. non-perforated Sch 40 PVC pipe,
length = _____'. Slope = 0.01 ft./ft.

Notes:

1. Use #8 or #89 stone under base of concrete well as needed to level surface.
2. Opening to insert pipe into concrete well to be pre-cast. Grout opening around pipe to seal.
3. Concrete well wall thickness to be _____" min.
4. Pump rate = _____ gpm with a total dynamic head of _____ ft.



"L1"= Elevation of water in stream
with stream flowing at 10 x "Q"
"L2"= L1 - 0.25' for 100 gpm pump flow
= L1 - 0.5' for 200 gpm pump flow
= L1 - 0.75' for 300 gpm pump flow
"Q" = Planned pumping rate



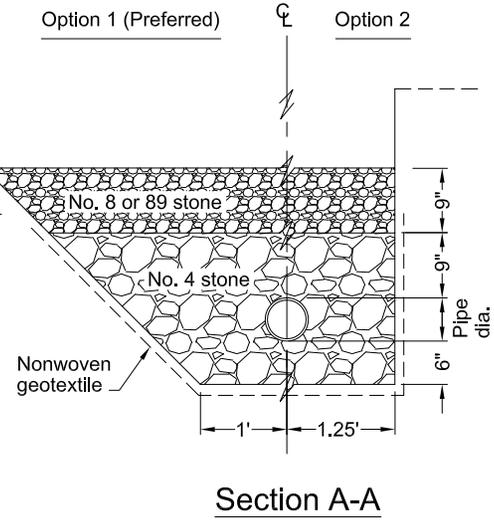
Detail 'A'

Quantities Summary for Graded Filter	
No. 8 or 89 stone:	_____ tons
No. 4 stone:	_____ tons
Nonwoven geotextile:	_____ yd ²

Note: Details this sheet are not to scale

Intake Pipe Notes:

- Pipe diameter = _____" dia. perforated Sch. 40 PVC w/ end caps.
- Perforated pipe length = _____'
- Pipe shall have _____ rows of 3/4" dia. holes. Holes shall be spaced at 3" c.c. along row. Rows shall be spaced at _____° around pipe.
- Geotextile shall have a minimum tensile strength (ASTM D4632) of 120 lb. and a minimum puncture strength (ASTM D4833) of 60 lb.



Section A-A

Note: Use this intake method only in streams with no sand and silt-size bedload.

Rev. 01/12	Drawing Name AL-ENG-533-03	Sheet _____ of _____
Date _____	Designed _____	Approved _____
IRRIGATION WATER STREAM INTAKE		
Landowner _____ County, AL		
 NRCs Natural Resources Conservation Service United States Department of Agriculture		