

INSTRUCTIONS

1. D = pipe diameter.
2. Vertical distance between inlet and elbow elevation shall not be less than 2 feet.
3. Head for computing pipe flow shall be from water surface in reservoir to $0.6D$ above elbow elevation.
4. Pipe shall be sized to obtain full pipe flow from inlet to elbow.
5. Open channel flow shall occur in slotted flume from elbow to outlet.
6. C = diameter of vent. Vent shall have a minimum of two bolts at top to form an animal guard. Equivalent animal guards may be used if they do not restrict flow of air.

D	8	12	16	18	20
A	3	5	6	7	8
B	3	4	5	6	7
C	4	4	4	4 1/2	5

NOTE: ALL DIMENSIONS ARE INCHES.

8. Slope of slotted flume shall not be steeper than 3:1.
9. Anti-seep collars shall be installed on pipe between inlet and elbow in accordance with Engineering Field Handbook. Seepage length shall be increased by 10 percent.
10. Slots shall not be placed within 3 feet of the elbow.
11. Vertical distance from elbow to outlet shall not be less than 6 feet. This would require a minimum of 4 slots.
12. L = Length of pipe for pipe flow computations.
13. Stage is from inlet elevation to water surface in reservoir, normally auxiliary spillway elev.

NOTE:

THIS SHEET IS FOR DESIGN ONLY.

Revised 4/01

Date _____

Designed _____

Drawn _____

Checked _____

Approved _____

**WELDED STEEL PIPE
SLOTTED FLUME OUTLET**

United States Department of Agriculture
Natural Resources Conservation Service



DRAFT

NOT FOR
CONSTRUCTION

File Name _____

Drawing Name _____

29-L-115A-DSN

Sheet _____ of _____