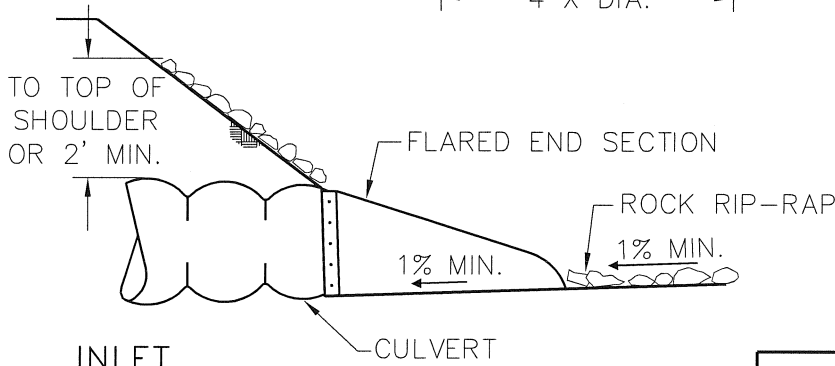


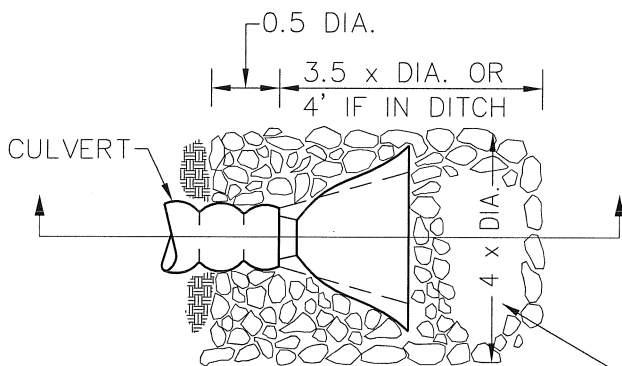
**INLET PLAN**



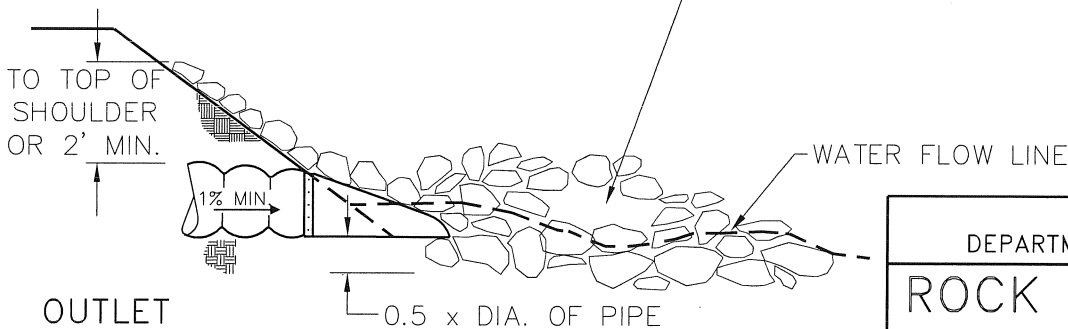
**INLET ELEVATION**

**NOTES:**

1. HAND PLACE ANGULAR ROCK. ROCK SHALL BE 4" MINIMUM DIMENSION.
2. WHERE SLOPE OF OUTLET EXCEEDS 5%, A SEDIMENT BOWL OR APPROVED ENERGY DISSIPATER SHALL BE REQUIRED.
3. FLARED END SECTIONS AND ROCK RIP-RAP WILL SLOPE AT A MINIMUM OF 1% INTO AND OUT OF THE CULVERT.
4. SLOPE PROTECTION CONFORMING TO THE DIMENSIONS SHOWN MAY BE SUBSTITUTED FOR THE FLARED END SECTIONS ON PIPES 18" AND SMALLER.
5. GROUT ROCK RIP-RAP AND SLOPE PROTECTION WHEN DITCH SLOPE IS 12% OR GREATER.



**OUTLET PLAN**




**OUTLET ELEVATION**

PIPE $\phi$ (in)	(2x) (ft)	(3.5x) (ft)	(4x) (ft)	(5x) (ft)
12	2	3.5	4	5
18	3	5.25	6	7.5
24	4	7	8	10
30	5	8.75	10	12.5
36	6	10.5	12	15

SEDIMENT BOWL (IF REQUIRED)

WATER FLOW LINE

YUBA COUNTY DEPARTMENT OF PUBLIC WORKS	
<b>ROCK INLET/OUTLET PROTECTION</b>	
APPROVED BY: 	DATE: 8-29-06
<b>409</b>	