

- 1. PLANS SHALL SPECIFY:
  - A) ROCK CLASS AND THICKNESS (T)
  - B) FILTER MATERIAL, NUMBER OF LAYERS AND THICKNESS.
- 2. RIP RAP SHALL BE EITHER QUARRY STONE OR BROKEN CONCRETE (IF SHOWN ON THE PLANS). COBBLES ARE NOT ACCEPTABLE.
- 3. RAP RAP SHALL BE PLACED OVER FILTER BLANKET WHICH MAY BE EITHER GRANULAR MATERIAL OR PLASTIC FILTER CLOTH.
- 4. PLACEMENT
  - A) MINIMUM DEPTH = 1-1/2 TIMES AVERAGE STONE SIZE.
  - B) ROCKS SHALL BE PLACED TO PROVIDE A MINIMUM OF VOIDS.
  - C) SURFACE ROCKS SHALL PROTRUDE AT LEAST 1/2 THEIR VERTICAL DIMENSION.
- D) RIPRAP IS TO BE PLACED OVER A GEOTEXTILE FABRIC ON A NATURAL BEDDING, OR IT MAY GROUTED OR PLACED OVER A GRAVEL BEDDING AS REQUIRED BY THE COUNTY.

Wings Revised U.1.10 degal U.200-800.degal U.2.10 degal U.	-	1/2D (MIN)  2D OR 2W  SECTION B-B	3 (MIN.)
A A	DESIGN VELOCITY FT/SEC.	ROCK CLASSIFICATION BY WEIGHT	
Skr	6-10	200 LBS	1
rowing	10-12	1/4 TON	
12–14		1/2 TON	
Stand	14-16	1 TON	1
TAR	16-18	2 TON	
DESIGN VELOCITY ROCK CLASSIFICATION BY WEIGHT  6-10 200 LBS  10-12 1/4 TON  12-14 1/2 TON  14-16 1 TON  16-18 2 TON  NOTES  1. PLANS SHALL SPECIFY:  A) ROCK CLASS AND THICKNESS (T)  B) FILTER MATERIAL, NUMBER OF LAYERS AND THICKNESS.  2. RIP RAP SHALL BE EITHER QUARRY STONE OR BROKEN CONCRETE (IF SHOWN ON THE PLANS). COBBLES ARE NOT ACCEPTABLE.  3. RAP RAP SHALL BE PLACED OVER FILTER BLANKET WHICH MAY BE EITHER GRANULAR MATERIAL OR PLASTIC FILTER CLOTH.  4. PLACEMENT  A) MINIMUM DEPTH = 1-1/2 TIMES AVERAGE STONE SIZE.  B) ROCKS SHALL BE PLACED TO PROVIDE A MINIMUM OF VOIDS.  C) SURFACE ROCKS SHALL BE PLACED TO PROVIDE A MINIMUM OF VOIDS.  C) SURFACE ROCKS SHALL BE PLACED TO PROVIDE A MINIMUM OF VOIDS.  C) SURFACE ROCKS SHALL BE PLACED OVER A GEOTEXTILE FABRIC ON A NATURAL BEDDING, OR IT MAY GROUTED OR PLACED OVER A GRAVEL BEDDING AS REQUIRED BY THE COUNTY.			
E DEPARTMENT OF TRANSPORTATION	APPROVAL DATE: 1/1/10	SCALE: N.T.S.	STANDARD DRAWING
AND DEVELOPMENT  150 BEAVERCREEK ROAD OREGON CITY, OR 97045	AMAS ENERGY I	RAP DISSIPATOR	U800