

CITY OF WOODCREEK, TEXAS**SPECIFICATION FOR DRAINAGE CHANNEL RIPRAP**

Description: Furnish and place concrete or stone riprap.

Materials: Furnish materials in accordance with the following:

Stone Riprap: Use durable natural stone with a minimum bulk specific gravity of 2.40 as determined by Tex-403-A. Provide stones between 50 and 250 lb. with a minimum of 50% of the stones heavier than 100 lb. Use stones that are at least 3 in. in their least dimension, with at least 1 broad flat surface and that are at least twice as wide as they are thick.

Concrete Riprap: Material may consist of broken concrete that meets the same dimension requirements as that required for stone. Before placement of each piece of broken concrete, cut exposed reinforcement flush with all surfaces.

Filler Material: Use small stones lighter than 25 lb. to fill open joints and voids greater than 2 inches (2") in riprap.

Bedding Material: Provide bedding material in accordance with TEXDOT Protection Riprap Bedding Material Gradation Requirements, Table 2.

Placement: Dress the drainage channel to an even stabilized surface to assure a free flow of water away from the culvert piping before the placement of bedding and riprap, shape side slopes 2 to 1. Place bedding material as needed to assure a uniform top surface when the Riprap is placed. Place riprap in the flow channel in a single layer with close joints. Place filler material to acquire a tight fit. There must be a uniform top surface to allow unimpeded flow of water.

All debris shall be removed from the work site at completion of the work.