*Designer Note: This note is for slope stabilization structures that are buried, i.e. they do not have any lagging above ground. The note assumes that the drilled shafts are designed to rely only on the structural steel member and that the concrete in the drilled shaft is only to fill the void and is not structurally significant.*

**DRILLED SHAFTS FOR SLOPE STABILIZATION**

**Item 524, Drilled Shafts, \_\_" Diameter, Above Bedrock, As Per Plan**

**Item 524, Drilled Shafts, \_\_" Diameter, Into Bedrock, As Per Plan**

This work consists of furnishing and installing drilled shafts for slope stabilization structures. The drilled shafts are reinforced with structural steel members instead of reinforcing steel cages. Furnish and install the drilled shafts in accordance with CMS 524 except as modified and supplemented below.

Excavate the hole for the drilled shaft within 3 inches of the plan location. The design is based on a maximum depth from ground surface to bedrock of \_\_ feet. If field conditions indicate greater depths, notify the Engineer for further evaluation.

Furnish structural steel members according to the plan requirements and conforming to ASTM A572, Grade 50. Do not field weld or splice structural steel members. Place the steel member within the hole so it is vertical and not inclined more than 1 inch between top to bottom. Center the steel member within the hole. Place the steel member so that the flanges are parallel to the centerline of the row of drilled shafts. Do not allow the orientation of the flanges to vary by more than 10 degrees. Support the steel member so that it does not move during concrete placement.

Use Class QC 5 concrete according to CMS 511. The Contractor may place concrete using the free fall method provided the depth of water is less than 6 inches and the concrete falls without striking the sides of the hole. Pouring concrete along the web of the structural steel member is acceptable.

Check the position, the vertical alignment and orientation of the structural steel member immediately after concrete placement. Make corrections as necessary to meet the above tolerances.

Method of Measurement: The Department will measure Drilled Shafts Above Bedrock, As Per Plan, along the axis of the drilled shaft from the existing ground surface to the top of bedrock, as determined by the Engineer. The Department will measure Drilled Shafts Into Bedrock, As Per Plan, along the axis of the drilled shaft from the top of bedrock to the bottom of the drilled shaft, as determined by the Engineer.