ITEM 403

TEMPORARY SPECIAL SHORING

403.1. Description. This Item shall govern for furnishing and constructing temporary shoring to hold the surrounding earth, water or both out of the work area and to the lines and grades shown on the plans and in accordance with this Item.

403.2. Design. Unless otherwise shown on the plans, the Contractor shall be responsible for the adequacy of the temporary special shoring design. The Contractor shall submit, to the Engineer, details and design calculations bearing the seal of a Registered Professional Engineer for review and approval. All loads and allowable stresses shall comply with the latest AASHTO Standard Specifications for Bridges, except that the maximum allowable service load stress may be increased by 25%.

403.3. Materials. The Contractor shall furnish shoring that meets or exceeds the design requirements. Materials may be new or used. Materials shall not present a hazard to the public, shall be structurally adequate and shall fulfill the intended shoring purpose.

403.4. Construction Methods. The construction methods used for temporary shoring shall be in accordance with the applicable Specifications and the design requirements.

403.5. Measurement. This Item will be measured by the square foot of surface area of a vertical plane between the top of the shoring and the minimum protection grade line shown on the plans.

This is a plans quantity measurement Item and the quantity to be paid for will be that quantity shown in the proposal and on the "Estimate and Quantity" sheet of the contract plans, except as may be modified by Article 9.8. If no adjustment of quantities is required, additional measurements or calculations will not be required.

403.6 Payment. The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Temporary Special Shoring". This price shall be full compensation for furnishing and placing all temporary shoring materials; for design of the shoring; for all necessary excavation; for the removal of the shoring or portions thereof; and for all labor, tools, equipment and incidentals necessary to complete the work.

No payment will be made for special shoring made necessary due to the selection of an optional design or sequence of work that creates the need for shoring.