## ----(Retaining Wall Report Included with BFI Report)----

Downdrag Protection- PSC piles at endbents 1 and 3 within the MSE wall backfill should be fitted with downdrag protection (yellow jackets or equivalent).

Retaining Wall- The following soil design parameters are recommended for use for the proposed MSE walls at bents 1 and 3:

Cohesion, C: 0 kN per square meter

Angle of Internal Friction,  $\Phi$ : 28°

Soil Unit Weight, δ: 19 kN per cubic meter

Coefficient of Sliding Friction, µ: 0.45

The maximum allowable soil bearing pressure is 190 kPa. If the wall design bearing pressure exceeds the maximum allowable bearing pressure, the wall should be built to a height equivalent to the allowable bearing pressure, and then a 30-day waiting period enforced. After this time, the wall may be constructed to its final height. Temporary walls or shoring will be required adjacent to the existing bridge at bents 1 and 3 for the stage construction of the new abutment walls.