

Section 5: ANCHORAGE DEVICES

Authorized permanent type anchorage devices must be shown on the prestress shop drawings. The *Standard Specifications*²¹ requires that the final unit compressive strength stress on the concrete behind the bearing plate must not exceed 3,300 psi (21 MPa). The bending stresses in the plates must not exceed the yield point of the material when 95% of the guaranteed ultimate tensile strength (GUTS) of the tendon is applied.

Anchorage devices must be preauthorized by METS prior to their use on State contracts. The bearing plates must be tested and released by METS. A TL-29 release form and a release tag are required prior to incorporating the bearing plates into the work.

The bearing plates are to be placed perpendicular to the slope of the prestress duct. The batter of the bearing plate should be checked during the shop drawing review and confirmed while the prestress blockouts are being formed.

The *Revised Standard Specifications*²² require permanent grout caps.

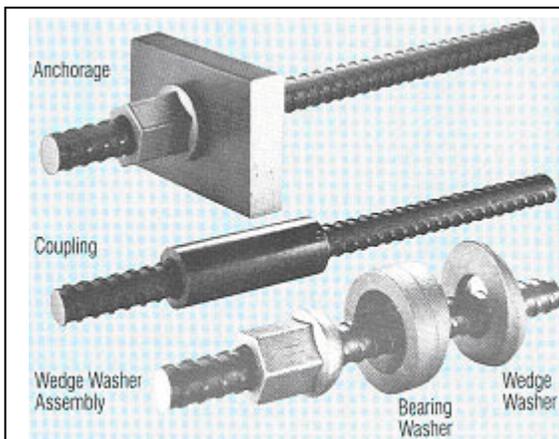


Photo 5-1 – AVAR Threadbar System.

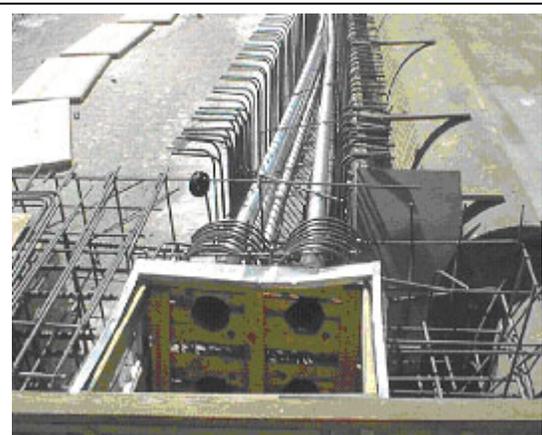


Photo 5-2 – Blockout for Anchorage Devices.

²¹ 2010 SS, Section 50-1.03B(2)(c), *Anchorage and Distribution*.

²² 07-19-13 RSS, Section 50-1.02F, *Permanent Grout Caps*.

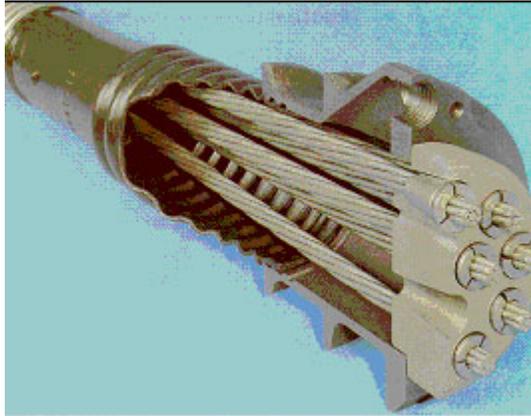


Photo 5-3 – DSI Multi-Plane Anchorage.



Photo 5-4 – Anchorage System Testing.