

717-R-152 ALTERNATES TO STRUCTURAL PLATE STRUCTURES

(Revised 11-01-06)

The Standard Specifications are revised as follows:

SECTION 717, LINE 119, DELETE AND INSERT AS FOLLOWS:

717.06 ~~Blank~~ Alternate Structural Plate Structures

The Contractor will be permitted to furnish and place an alternate type structural plate structure to such structure specified. The alternate structure shall be in accordance with the following requirements.

- (a) Plans and specifications shall be submitted for review and approved prior to commencing work.*
- (b) The structure shall be designed for the more critical of AASHTO HS20-44 live load or alternate military loading of two axles spaced 48 in. (1200 mm) apart with each axle weighing 24,000 lb (10 900 kg). The alternate military loading shall be applied to structures under primary, secondary, or local routes if the design year truck traffic volume exceeds 600 vehicles per day, or structures under interstate routes.*
- (c) The design shall be in accordance with the applicable minimum design requirements of the AASHTO Standard Specifications for Highway Bridges, Division I, Article 12.6 Long Span Structural Plate Structures. Either continuous longitudinal structural stiffeners or designed reinforcing ribs will be permitted. The design shall also include revisions to foundations if required.*
- (d) The structure shall have the same geometrical shape as the originally specified structure.*
- (e) The extent of the backfill envelope shall equal or exceed the horizontal and vertical limits of the originally specified structure. Backfill material shall be structure backfill in accordance with 904 and compacted in accordance with 211.04. Exposed backfill material shall be encased with geotextiles and riprap, both in accordance with 616.*
- (f) A list shall be submitted listing 30 similar structures of the same span or larger which have been installed within the continental United States.*
- (g) Design computations and design drawings, together with an itemization of all contract modifications shall be signed and sealed by a professional engineer and submitted for approval.*
- (h) A qualified technician, provided by the manufacturer, shall be present during erection and backfilling of the structure.*

SECTION 717, BEGIN 177, INSERT AS FOLLOWS:

The cost of excavation, concrete field paved inverts, disposal of surplus materials, reinforcing bars, straps, and hook bolts used in anchors, *substitution of an alternate structural plate structure*, and necessary incidentals shall be included in the cost of the pay items.
