

DIAPHRAGM BOLT NOTES

Provide structural steel for Diaphragm Bolts and Plate Washers in accordance with AASHTO M270 (ASTM A709), Grade 50W (Weathering Steel, Charpy V-Notch testing not required). The Contractor may substitute a #10 reinforcing bar in accordance with AASHTO M31, Grade 60, and threaded at the ends as shown for the Diaphragm Bolt at no additional cost to the Department. Provide Hex Nuts in accordance with AASHTO M291 (ASTM A563).

Paint exposed Diaphragm Bolt, Plate Washer and Hex Nut with two (2) coats of zinc-rich paint (6 mil minimum thickness) after assembly. Include all cost of Diaphragm Bolt, Plate Washer and Hex Nut in the contract unit price for STRUCTURAL STEEL.

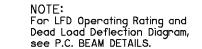
SIDE

42'-2" 40'-0" Clear Roadway 1'-1", ,1'-1" 20'-0" 20'-0" 43 - ET #4 @ 12" (Top of Slab) 42 - EPT #6 (1 Equally Spaced between ET Bars) NOTE: For bar bends and bar list, 4'-0" see SUPERSTRUCTURE BAR LIST. Round 2'-0" Rotate hooks on A2 and AC bars Each Side of to maintain minimum clearance. ₡ to Avoid Sharp Edges Concrete Traffic Rail A2 #6 @ 12" See Std. TR4-2 w/ 2 - A3 #5 Equally Spaced between A2 Bars A1 #4 @ 12" PROFILE GRADE LINE AC #6 B #5 @ 12" See GENERAL PLAN (2 Equally Spaced between A Bars) B #5 @ 6" 1/2" AND ELEVATION 芯 2% Slope _ 2% Slope ā Ø, 1/2" Drip Bead See DETAIL B Coupler Diaphragm (Include all Costs Bolt Assembly See DETAIL A in other items Symmetrical of work) About 🗓 42 - EPB #4 (1 Equally Spaced between EB Bars) 43 - EB #5 @ 12" (Bottom of Slab) 4'-1" 11'-4" 5'-8" 11'-4" 5'-8"

HALF SECTION AT INTERMEDIATE DIAPHRAGM

TRAFFIC RAIL, SLAB AND BEAM

HALF SECTION AT PIER DIAPHRAGM

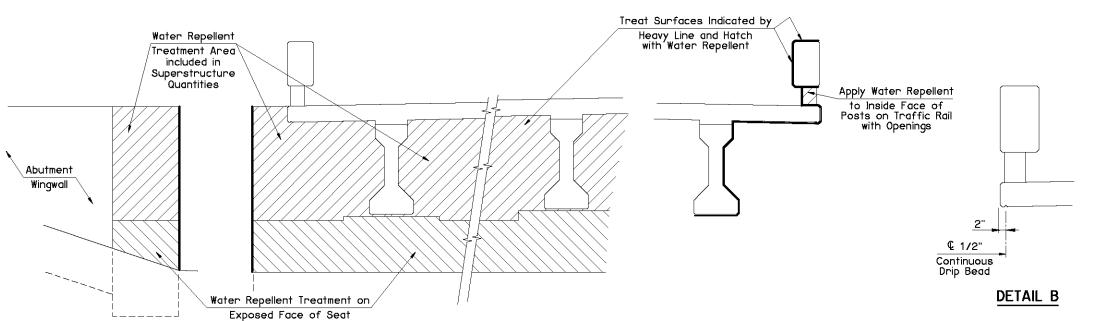


included in Abutment Quantities

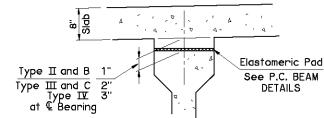
ABUTMENT DIAPHRAGM

ELEVATION

TYPICAL CROSS SECTION



WATER REPELLENT TREATMENT DETAILS



BEAM HAUNCH DETAIL

NOTE:
Plan quantities for CLASS AA CONCRETE include
Beam Haunches. The haunch height shown is the
theoretical haunch height at the centerline bearing
only, measured from the bottom of the Deck Slab
to the top of the Beam, and varies across the span.
Determine the actual haunch height (accounting for
beam camber, dead load deflection and roadway
grade) after erection of the beams and submit to
the Engineer for approval. The Engineer will not
measure differences between the theoretical
and the actual haunch heights for payment.



B-61E