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Fabricator must adjust beam lengths for beam slopes as required.

Seal and center 1" diameter smooth lateral connector rod (LCR) in the bottom of the flange connection "tee" prior to welding to minimize grout leakage. Care where necessary between face and bottom flange of beam.

Pour slab surfaces in contact with grout with a 3-component, water-based, easy-modified concrete bonding agent (including a corrosion inhibitor) (BSIF Epoxy #240) until full bond. Sika Armor-150 Fast or approved equal. Submit material data sheet to Engineer for approval prior to use. Apply in accordance with manufacturer's specifications and not prior to 72 hours before grout placement.

Fill shear keys with grout that meets the requirements of DW9465 (Generous Grouts and Mortars for Miscellaneous Applications). It is capable of a compression strength of 4,000 psi after 3 days of curing at anticipated temperatures. Surface preparation, mixing and consistency of grout, placement and curing must follow the manufacturer's recommendations. Curing compounds are not allowed. Cure 3 days, minimum, prior to placing surface treatments and overlay. Approximate grout quantity for tee beam joints = 0.33% of grout per foot of span length.

Use forming material between lateral connectors. Maintain a uniform grout depth along length of beams.

Lateral connector rods are subsidiary to other pertinent bid items.

After the specified cure times for the grout is reached, apply fabric underseal to the limits shown. Use fabric underseal meeting the requirements of Item 356, "Fabric Underseal".

Provide joint for roadway width and across between lines of rails on the superstructure.

Place backer rod in joint opening prior to placing binder. Backer rods must be suitable for contact with hot asphalt.

Use reinforced fabric joint underseal meeting the requirements of Item 356, "Fabric Underseal". When using the self-adhesive type fabric underseal, pressure roll fabric underseal to improve adhesion. Apply binder to fabric joint underseal as required by the manufacturer's installation instructions.

Tuck fabric 2" into joint opening. Make location of centerline of joint on curb or barrier as approved.

After the asphaltic concrete pavement operations are complete, saw cut through the asphalt at centerline of joint. Make multiple saw cuts to create a 1" minimum joint opening. Depth of saw cut will be 1" less than total ACP overlay joint. Do not damage the underseal.

Seal the joint opening with a Class 3, "Hot Poured Rubber" in accordance with DW5-S10, "Joint Sealants and Fillers." Seal flush with the top of the asphaltic concrete pavement.

M29 Fabric underseal

1" Dia x 11" smooth lateral connector rod (LCR)

Connectors plate

Connector plate (Typ)

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LATERAL CONNECTOR DETAILS

Do not apply load to beam while welding lateral connector rod.

No vehicles are allowed on the span until shear key grout has cured 72 hours.

Do not apply load to beams while welding lateral connector rod.

No vehicles are allowed on the span until grout key grout has cured 72 hours.

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