GENERAL: This insert details the barrier transition, to connect existing NJ Concrete Barrier facility totally to a new run of Single Slope Concrete Barrier. For locations shown on the plans, see Plan Insert sheets for specific NJ Shape Concrete barrier details. For single slope barrier details, see SCD RM-4.3 and RM-4.5 for Type A, B, C, & D barriers. It is not intended to be used for transition sections (those shown on SCD RM-4.4, if not A or B barriers, or on Type C & D barriers). The proposed adjacent single slope barrier is Type A or B. The barrier transition should contain a horizontal reinforcing steel stirrup or tie that required in the respective single slope barrier. Reinforcement is not shown and should be detailed separately. The adjacent single slope end should be constructed with a reinforced End Anchor, as detailed on the SCDs.

BARRIER FACE TRANSITION: To prevent vehicle snagging, a smooth transition from the safety shape face to the single slope face is made over a 20' length. The actual shape of the transition is dependent on both the adjacent NJ barrier and the single slope barrier types, as detailed on the plans. The contractor and Engineer will agree on a construction method to ensure a smooth transition.

RACEWAYS: When specified, place raceway(s) to match raceway Bellows, or on Type C or C1 Barrier. If proposed adjacent single slope barrier is Type A or A1, the barrier transition should contain a horizontal reinforcing steel stirrup or tie that is required in the respective single slope barrier. Reinforcement is not shown and should be detailed separately. The adjacent single slope end should be constructed with a reinforced End Anchor, as detailed on the SCDs.

CONCRETE BASE: Construct base as shown on the NJ shape insert sheets, including the methods detailing the footing joint, permeable construction joint, and detailing requirements. The width of the base matches the existing NJ barrier.

JOINTS: Construct joints as shown on respective barrier drawings. Inlets, or on Type C or C1 Barrier. If proposed adjacent single slope barrier is Type A or A1, the barrier transition should contain a horizontal reinforcing steel stirrup or tie that is required in the respective single slope barrier. Reinforcement is not shown and should be detailed separately. The adjacent single slope end should be constructed with a reinforced End Anchor, as detailed on the SCDs.

ADJACENT CONCRETE BARRIER BASINS: Remove any tapered end sections, impact attenuators, or other guardrail hardware from existing barrier end. The barrier to barrier transition is not intended to be used of transition sections (those shown on SCD RM-4.4, if not A or B barriers, or on Type C & D barriers). The proposed adjacent single slope barrier is Type A or B. The barrier transition should contain a horizontal reinforcing steel stirrup or tie that required in the respective single slope barrier. Reinforcement is not shown and should be detailed separately. The adjacent single slope end should be constructed with a reinforced End Anchor, as detailed on the SCDs.

MATERIALS: Materials are the same for those shown on RM-4.3 and RM-4.5. Acceptable reinforcing steel is the only acceptable reinforcing. Edges may be shaped or rounded as shown on those drawings.

NOTES

PAYMENT: This Barrier Transition shall include all material and labor needed to construct this 20' section, including any roadways, reinforcing steel, dowels and other necessary incidentals. Payment shall be made at the unit price for Item 622 - Barrier Transition, each.