TYPICAL SECTION

+ BASED ON PREDICTED FINAL CAMBER AND THEORETICAL GRADE LINE ELEVATIONS

NOTES

ALL Prestressing strands shall be 7-wire low relaxation grade 270 strand and shall conform to 100% full load for sampling requirements which shall be in accordance with the Standard Specifications.

All reinforcing steel cast with the box beam sections shall be grade 60 and shall be enclosed in the unit pipe nid for prestressed concrete box beams.

Recesses for transverse strands shall be grouted after the tensioning of the strands.

The 64mm dowel holes at fixed ends of beam sections shall be filled with non-shrink grout. The 64mm dowel holes at expansion ends of beam sections shall be filled with joint sealant material to a top of 15cm and then filled with grout.

The joint sealant material shall conform to the requirements of Type SL low modulus silicone sealant. The joint sealant material shall conform to the requirements of Type II bond breaker. See Section 1028 of the Standard Specifications.

The transfer of load from the anchors to the box beam unit shall be done when the concrete has reached a compressive strength of not less than 1.4 MPa.

All reinforcing steel, in barrier rails and concrete wearing surface, shall be epoxy coated. Prestressing strands shall be cut flush with the box beam unit ends.

Apply epoxy protective coating to box beam unit ends.

Vertical grooved construction joints, when in plan, shall be located on the end of the barriers and in accordance with Article 825-10 of the Standard Specifications. A vertical contraction joint shall be located in each third bent between barriers. Joints shall be made in accordance with Article 825-10 and shall be made at 2.4m intervals. A joint shall be installed in each bent for the section length of 121.9m.

For elastomeric joint seal, see special provisions.

The nominal uncompensated seal width of the elastomeric joint seal shall be 6mm at bent no. 1.5.

Placement of the concrete wearing surface shall occur after the concrete in the box beam unit is 100% full load. The cost of the concrete wearing surface shall be included in the unit price bid for concrete wearing surface, see special provisions.

For elastomeric concrete, see special provisions.

Location of the void drains may be shifted slightly where necessary to clear prestressing strands or transverse reinforcing steel.