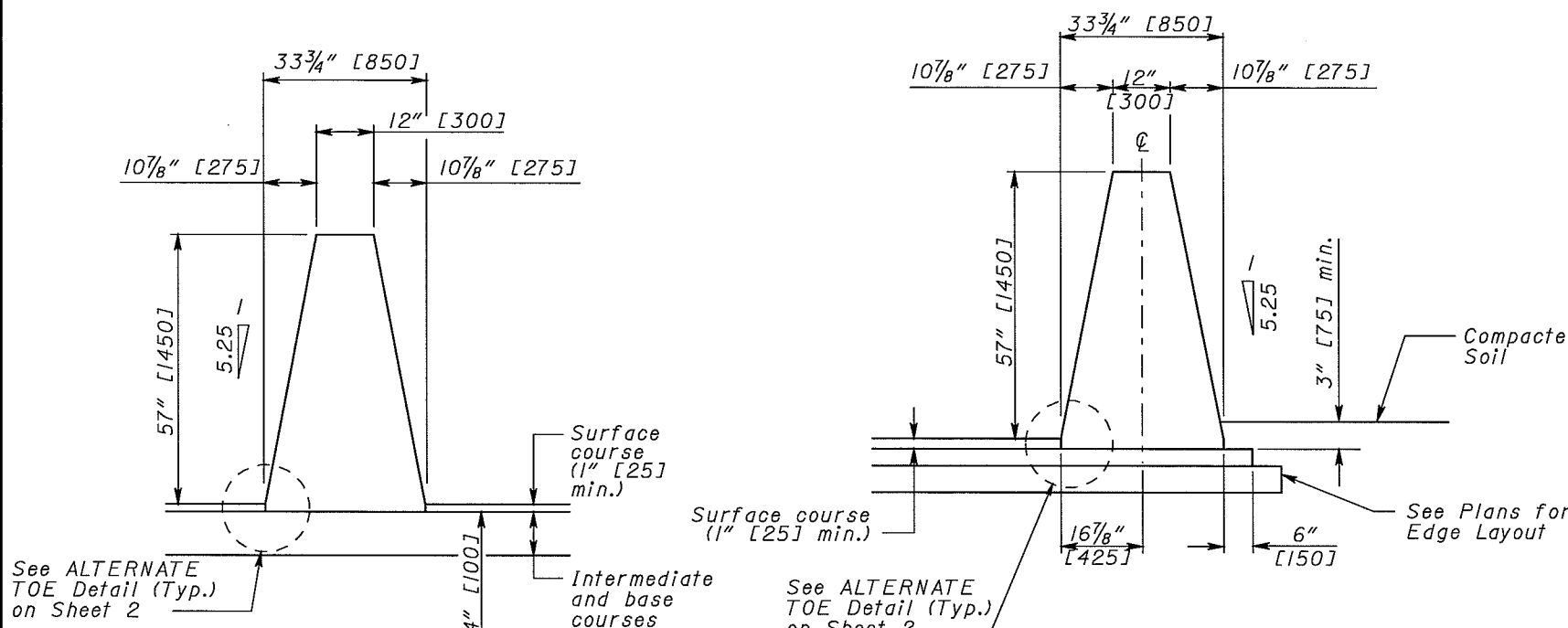


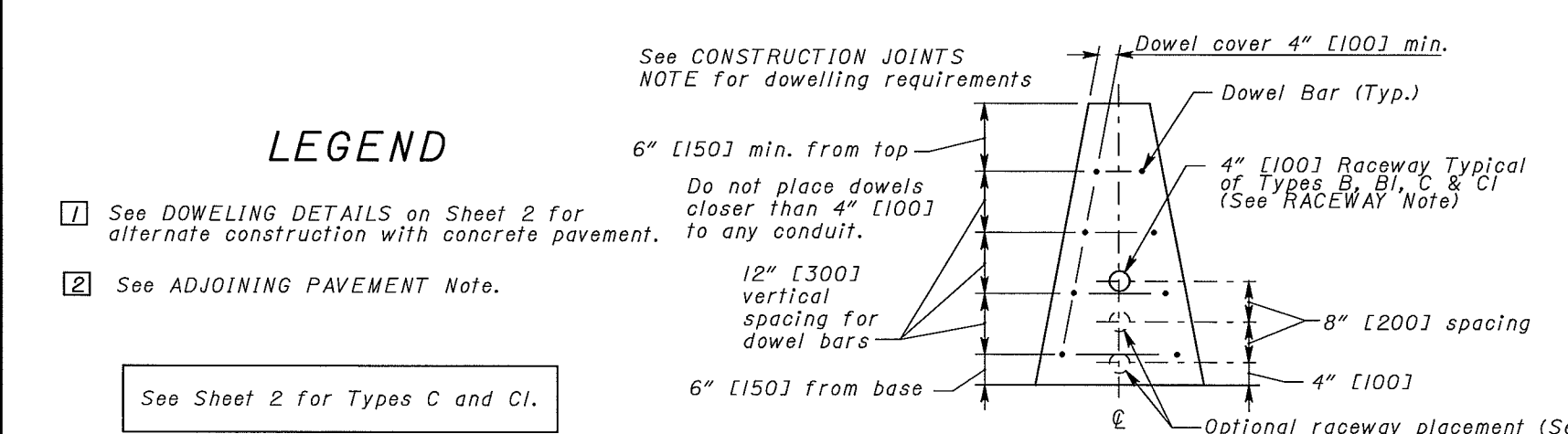
TYPE B
(SHOWN WITH NEW CONCRETE PAVEMENT)

TYPE B
(SHOWN WITH EXISTING PAVEMENT)



TYPE BI
(SHOWN WITH NEW ASPHALT PAVEMENT)

TYPE BI
(SHOWN WITH PAVEMENT ON ONE SIDE ONLY)



RACEWAY AND DOWEL BAR PLACEMENT

NOTES

SINGLE SLOPE CONCRETE BARRIER may be cast-in-place or slip formed. See Sheet 2 for Types C and CI. See SCD RM-4.5 for Type D barrier. See SCD RM-4.6 for End Sections.

MATERIALS: Construct using Class C concrete. Construct top and end edges with either a 1" [25] radius or 3/4" [19] chamfer, except at light pole foundations.

CONTRACTION JOINTS: Maximum allowable spacing of unsealed joints is 20' [6.0 m] throughout the run of the barrier. Construct joints by using metal inserts inside the forms, preformed full width joint filler, a grooving tool, or by sawing. Inserts, tooled, or sawed joints will have a 3" [75] depth. Construct all joints for the full height of the barrier. Saw as soon as curing will allow to prevent spalling. When used in conjunction with concrete pavement, match joints to those in the concrete pavement but not exceeding the maximum allowable spacing.

ADJOINING PAVEMENT: When the barrier is constructed in conjunction with new asphalt pavement, place it directly on the intermediate course. Construct the surface course directly against the barrier. Set barrier placed on existing pavement with a continuous wedge of surface material tapering from a 1" [25] minimum thickness at the toe of the barrier to zero. For bidirectional installations construct the wedge on both sides of the barrier. For unidirectional installations, construct the wedge on the traveled way side and the width may be reduced to 12" [300] minimum.

When the barrier is constructed in conjunction with new concrete pavement, place it directly on the base material. Construct the concrete slab against the barrier.

Barrier may be placed on top of existing concrete pavement and doweled as shown in DOWELING DETAILS (see Sheet 2). When pavement is to be constructed on one side of the barrier only, then compacted soil on the opposite side must be placed against the barrier at a minimum height of 3" [75].

SEALING JOINTS: Use a butt longitudinal joint between the barrier and adjoining concrete pavement sealed with CMS 705.04 joint sealer. See detail on Sheet 2.

TRANSITIONS: Make linear transitions between different types of barrier within a 20' [6.0 m] length.

CONSTRUCTION JOINTS: Barrier runs with abutting vertical surfaces at either required or permissible construction joints are to be doweled to each other by use of 3/4" [19] dia. by 18" [450] long epoxy coated deformed dowel bars as per CMS 622.02. Bars are to be placed as shown on the RACEWAY and DOWEL BAR PLACEMENT detail on this sheet. Provide a 4" clearance to barrier surfaces and to any raceways.

STATION MARKINGS: Impress markings in the "green" concrete on both sides at the top of the barrier. The cost is incidental to the unit cost bid for this barrier.

RACEWAY: Locate as shown on in RACEWAY PLACEMENT Detail, unless otherwise directed by the Engineer. Ensure that the electrical raceway is clear of obstructions.

Cost of the 4" [100] polyvinyl chloride raceway is included where shown on the plans. The cost for additional raceways and No. 10 AWG copper-clad or aluminum-clad wire is also included where shown on the plans for future installation of circuits.

PAYMENT will be made at the unit price bid per Foot [Meter] for Item 622 - Concrete Barrier, Single Slope, Type _____. Include all materials, labor, raceways, dowel holes, markings and other incidentals necessary to construct the barrier, except as follows:

Item 604 Barrier Median Inlet	20 ft. [6 meters]
Item 625 Light Pole Foundation or Pullbox	4 ft. [1.2 meters]
Item 630 Overhead Sign Support Foundation	10 ft. [3 meters]
Item 630 Barrier Wall Assembly	10 ft. [3 meters]

Payment for any reinforced end anchors, as shown on the END ANCHORAGE details shown on sheet 2, will be made at the unit price bid per Each for Item 622 - Concrete Barrier End Anchor, Reinforced. This includes all materials, labor, and other incidentals necessary to construct this anchor.

THIS DRAWING REPLACES RM-4.3 DATED 4-18-03.

