Bearing Plates A & B - Embedded Plate A (1½" x 1'-1" x D) (Typ.) & Beveled Plate B (1½" Min. x C x D) (Typ.)

** M at Corners

Front Face of Backwall or Pier or Bent

2½" Dia. Screw Spacing

-2½" Bearing

1'-1" End

** Bearing Plates A & B are required for all Florida-I beams. Beveled Bearing Plates B with Embedded Bearing Plates A are required for beams as scheduled in the BEARING PLATE DATA TABLE in the Structures Plans.

3. Bearing plate material shall conform to ASTM A 209 or ASTM A 210 (Grade 36 or 36). Headed Concrete Anchor Studs shall conform to Specification Section 502. Hot-dip galvanize Bearing Plates A & B after fabrication except that Galvanized Caps may be welded in place after hot-dip galvanizing. Drill Bearing Plates A and B as an assembled unit, thread Bearing Plate A only. Holes are not required in Plate A when Plate B is not required. Drilled and threaded holes perpendicularly to Embedded Plate A and prior to plates being galvanized (ASTM A 123).

4. Provide Electroplated, Flat Head Cap Screws in accordance with ASTM F835. Electroplating shall be ASTM B633, SC 2, Type 1. Provide screws long enough to maintain a ½" minimum embedment into Embedded Bearing Plate A and Galvanized Cap. Provide steel Galvanized Caps with ½" Min. to 1½" Max. height and nominal 1" inside diameter.

5. Include the cost of Bearing Plates in the pay item for Prestressed Beams.

6. For Pad Type and Dimension C, see the BEARING PLATE DATA TABLE in the Structures Plans. For Dimensions J, K1 and K2, see TABLE OF BEAM VARIABLES in the Structures Plans.

7. All details and dimensions shown are along & Beam. Positive Slope shown, Negative Slope similar.

8. Slope is determined along & Beam at & Bearing. See BEARING PLATE DATA TABLE in the Structures Plans for Slope.

CROSS REFERENCE:

- See Sheet 2 for Detail "A"
- See Plans
- Cross Reference Tables in the Structures Plans

NOTES:

1. Work this sheet with Index 400-510 - Composite Elastomeric Bearing Pads, and BEARING PLATE DATA TABLE in the Structures Plans.

INDEX

450-512
Level Bearing Seat (Top of Substructure)

Sloped Bearing Seat (Top of Substructure) See Structures Plans

Composite Elastomeric Bearing Pad

Anchor Studs

Composite Elastomeric Bearing Pad

End Welded, Headed Concrete Anchor Stud

Embedded Bearing Plate A

Sloped Bearing Seat (Top of Substructure) See Structures Plans

CROSS REFERENCE: See Sheet 1 for Notes.

SIDE ELEVATION
WITHOUT BEVELED BEARING PLATES
(0.5% < Slopes ≤ 2% along & Beam) (See Note 7)

SIDE ELEVATION
WITHOUT BEVELED BEARING PLATES
(Slopes ≤ 0.5% along & Beam) (See Note 7)

END ELEVATION
WITHOUT BEVELED BEARING PLATE

Florida-I Beam

K1

K2

DETAIL "A"

Embedded Bearing Plate A

1½" x 1½" x 3'-0" (Florida-I Beam)