Plan View of Typical Single Bearing

Plan View of Typical Double Bearing

Notes:
1. Work this sheet with the BEVELED BEARING PLATE DATA TABLE in the plans.
2. Beveled Bearing Plates B with Embedded Bearing Plates A are required for beams only as scheduled in the TABLE OF BEAM VARIABLES on Beam Sheets.
3. Bearing plate material shall conform to ASTM A36 or ASTM A709 (Grade 36 or 50). Headed Concrete Anchor Studs shall conform to Specification Section 502. Hot-dip galvanized Bearing Plates A & B after fabrication except 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. Drill and thread holes perpendicular to bottom of Plate B and prior to plates being galvanized (ASTM A 123).
4. Provide Electroplated, Flat Countersunk Head Cap Screws in accordance with ASTM F 835. Electroplating shall be ASTM B 633. SC 2, Type 1. Provide screws long enough to maintain 3/8" minimum embedment into Embedded Bearing Plate A and Galvanized Cap. Provide steel Galvanized Caps with 1/2" Min. to 1 1/2" Max. height and nominal 1" inside diameter.
5. Include the cost of Beveled Bearing Plates in the pay item for Prestressed Beams (Florida U-Beams).
6. For Dimensions C and D, see BEVELED BEARING PLATE DATA TABLE in the Structures Plans. For Dimensions J, K1 and K2, see TABLE OF BEAM VARIABLES on Beam Sheets.
7. All details and dimensions shown are along Beam for single bearings or Plate parallel to Beam for double bearings, except for dimensions to 1/2" Dia. Screws and 1/2" Dia. x 2 1/2" Anchor Studs, which are along Screws or Anchor Studs. Positive Slope shown. Negative Slope similar.
8. When Skew = 0°, dimensions for Embedded Bearing Plate A are D x C x 1/2" and for Beveled Plate B are D x C x 1/2" Min. Required for beams only as scheduled in the 'TABLE OF BEAM VARIABLES' on Beam Sheets.

Design Standards FY 2017-18

Beveled Bearing Plate Details - Prestressed Florida-U Beams

Index No. 20502
Sheet No. 1 of 1
1. Neoprene in Type D, E, F & AA bearing pads shall have a shear modulus (G) of 110 psi. Neoprene in Type G, H, J, K & AB bearing pads shall have a shear modulus (G) of 150 psi.

2. Steel Plates in bearing pads shall conform to ASTM A1011 Grade 36, Type 1.

3. See Bearing Pad Data Table in Structures Plans for quantities of Type D, E, F, G, H, J, K, AA and/or AB Bearing Pads.
BEVELED BEARING PLATE B FOR ELASTOMERIC BEARING PAD TYPES AA, AB, D, E, F, G, H, & I *(Along Q, Beam)*  
*(Positive Slope shown; Negative Slope similar)*

1. Work this sheet with Index No. 20510 - Composite Elastomeric Bearing Pads, and the BEARING PLATE DATA TABLE in the Structures Plans.
2. Embedded Bearing Plates A 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 A36 or ASTM A709 (Grade 36 or 50). Headed Concrete Anchor Studs shall conform to Specification Section 502. Hot-dip galvanize Bearing Plates A & B after fabrication except when 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. Drill and thread holes perpendicular to Embedded Plate A and prior to plates being galvanized (ASTM A 123).  
4. Provide Electroplated, Flat Head Cap Screws in accordance with ASTM F 835. Electroplating shall be ASTM B633, SC 2, Type 1. Provide screws long enough to maintain a 3/8" minimum embedment into Embedded Bearing Plate A and Galvanized Cap. Provide steel Galvanized Caps with 1/2" Min. to 1/2" 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 Dimensions C, D, E, F and G, 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 Q, Beam except for VARIABLES' in the Structures Plans.
8. When Skew = 0°, F = D = 3'-0" (Florida-I Beams) or 1'-4" (AASHTO Type II Beams) E = C, and G = 1'-1 1/2".  
9. Slope is determined along Q, Beam at Bearing. See BEARING PLATE DATA TABLE in the Structures Plans for Slope and Angle B.

CROSS REFERENCE: 
See Sheet 2 for Detail "A".

NOTES:

1. Provide Electroplated, Flat Head Cap Screws in accordance with ASTM F 835. Electroplating shall be ASTM B633, SC 2, Type 1.
2. Provide screws long enough to maintain a 3/8" minimum embedment into Embedded Bearing Plate A and Galvanized Cap. Provide steel Galvanized Caps with 1/2" Min. to 1/2" Max. height and nominal 1" inside diameter.
3. Bearing plate material shall conform to ASTM A36 or ASTM A709 (Grade 36 or 50). Headed Concrete Anchor Studs shall conform to Specification Section 502. Hot-dip galvanize Bearing Plates A & B after fabrication except when 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. Drill and thread holes perpendicular to Embedded Plate A and prior to plates being galvanized (ASTM A 123).  
4. Provide Electroplated, Flat Head Cap Screws in accordance with ASTM F 835. Electroplating shall be ASTM B633, SC 2, Type 1. Provide screws long enough to maintain a 3/8" minimum embedment into Embedded Bearing Plate A and Galvanized Cap. Provide steel Galvanized Caps with 1/2" Min. to 1/2" 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 Dimensions C, D, E, F and G, 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 Q, Beam except for VARIABLES' in the Structures Plans.
8. When Skew = 0°, F = D = 3'-0" (Florida-I Beams) or 1'-4" (AASHTO Type II Beams) E = C, and G = 1'-1 1/2".  
9. Slope is determined along Q, Beam at Bearing. See BEARING PLATE DATA TABLE in the Structures Plans for Slope and Angle B.

CROSS REFERENCE: 
See Sheet 2 for Detail "A".

NOTES:

1. Provide Electroplated, Flat Head Cap Screws in accordance with ASTM F 835. Electroplating shall be ASTM B633, SC 2, Type 1.
2. Provide screws long enough to maintain a 3/8" minimum embedment into Embedded Bearing Plate A and Galvanized Cap. Provide steel Galvanized Caps with 1/2" Min. to 1/2" Max. height and nominal 1" inside diameter.
3. Bearing plate material shall conform to ASTM A36 or ASTM A709 (Grade 36 or 50). Headed Concrete Anchor Studs shall conform to Specification Section 502. Hot-dip galvanize Bearing Plates A & B after fabrication except when 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. Drill and thread holes perpendicular to Embedded Plate A and prior to plates being galvanized (ASTM A 123).  
4. Provide Electroplated, Flat Head Cap Screws in accordance with ASTM F 835. Electroplating shall be ASTM B633, SC 2, Type 1. Provide screws long enough to maintain a 3/8" minimum embedment into Embedded Bearing Plate A and Galvanized Cap. Provide steel Galvanized Caps with 1/2" Min. to 1/2" 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 Dimensions C, D, E, F and G, 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 Q, Beam except for VARIABLES' in the Structures Plans.
8. When Skew = 0°, F = D = 3'-0" (Florida-I Beams) or 1'-4" (AASHTO Type II Beams) E = C, and G = 1'-1 1/2".  
9. Slope is determined along Q, Beam at Bearing. See BEARING PLATE DATA TABLE in the Structures Plans for Slope and Angle B.

CROSS REFERENCE: 
See Sheet 2 for Detail "A".

NOTES:

1. Provide Electroplated, Flat Head Cap Screws in accordance with ASTM F 835. Electroplating shall be ASTM B633, SC 2, Type 1.
2. Provide screws long enough to maintain a 3/8" minimum embedment into Embedded Bearing Plate A and Galvanized Cap. Provide steel Galvanized Caps with 1/2" Min. to 1/2" Max. height and nominal 1" inside diameter.
3. Bearing plate material shall conform to ASTM A36 or ASTM A709 (Grade 36 or 50). Headed Concrete Anchor Studs shall conform to Specification Section 502. Hot-dip galvanize Bearing Plates A & B after fabrication except when 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. Drill and thread holes perpendicular to Embedded Plate A and prior to plates being galvanized (ASTM A 123).  
4. Provide Electroplated, Flat Head Cap Screws in accordance with ASTM F 835. Electroplating shall be ASTM B633, SC 2, Type 1. Provide screws long enough to maintain a 3/8" minimum embedment into Embedded Bearing Plate A and Galvanized Cap. Provide steel Galvanized Caps with 1/2" Min. to 1/2" 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 Dimensions C, D, E, F and G, 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 Q, Beam except for VARIABLES' in the Structures Plans.
8. When Skew = 0°, F = D = 3'-0" (Florida-I Beams) or 1'-4" (AASHTO Type II Beams) E = C, and G = 1'-1 1/2".  
9. Slope is determined along Q, Beam at Bearing. See BEARING PLATE DATA TABLE in the Structures Plans for Slope and Angle B.

CROSS REFERENCE: 
See Sheet 2 for Detail "A".

NOTES:

1. Provide Electroplated, Flat Head Cap Screws in accordance with ASTM F 835. Electroplating shall be ASTM B633, SC 2, Type 1.
2. Provide screws long enough to maintain a 3/8" minimum embedment into Embedded Bearing Plate A and Galvanized Cap. Provide steel Galvanized Caps with 1/2" Min. to 1/2" Max. height and nominal 1" inside diameter.
3. Bearing plate material shall conform to ASTM A36 or ASTM A709 (Grade 36 or 50). Headed Concrete Anchor Studs shall conform to Specification Section 502. Hot-dip galvanize Bearing Plates A & B after fabrication except when 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. Drill and thread holes perpendicular to Embedded Plate A and prior to plates being galvanized (ASTM A 123).  
4. Provide Electroplated, Flat Head Cap Screws in accordance with ASTM F 835. Electroplating shall be ASTM B633, SC 2, Type 1. Provide screws long enough to maintain a 3/8" minimum embedment into Embedded Bearing Plate A and Galvanized Cap. Provide steel Galvanized Caps with 1/2" Min. to 1/2" 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 Dimensions C, D, E, F and G, 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 Q, Beam except for VARIABLES' in the Structures Plans.
8. When Skew = 0°, F = D = 3'-0" (Florida-I Beams) or 1'-4" (AASHTO Type II Beams) E = C, and G = 1'-1 1/2".  
9. Slope is determined along Q, Beam at Bearing. See BEARING PLATE DATA TABLE in the Structures Plans for Slope and Angle B.

CROSS REFERENCE: 
See Sheet 2 for Detail "A".
Side Elevation
WITHOUT BEVELED BEARING PLATES
(Slopes ≤ 0.5% along Q Beam) (See Note 7)

* ½ Pad Type K

Side Elevation
WITHOUT BEVELED BEARING PLATES
(0.5% < Slopes ≤ 2% along Q Beam) (See Note 7)

CROSS REFERENCE:
See Sheet 1 for dimension H and Notes.
CROSS REFERENCE:
See Sheet 1 for Notes.