

DETAILS OVER PIER NOTES:

(Include these Notes with details shown on Dwg. No. 4.1.13)

1. ALL REINFORCEMENT SHOWN IN THESE DETAILS SHALL BE COATED.
2. ALL PIER DIAPHRAGM CONCRETE SHALL BE 4000 PSI, $\frac{3}{4}$ IN., 585 HP CEMENT CONCRETE.
3. CONTRACTOR MAY USE EXPANDED POLYSTYRENE FILLER OR A REMOVABLE FORM TO FORM THE BOTTOM OF THE PIER DIAPHRAGM.
4. PLACE EXPANDED POLYSTYRENE FILLER UNDER THE BOTTOM FLANGE AT THE EDGE OF THE SHEAR KEY.
5. PRIOR TO PLACING PIER DIAPHRAGM CONCRETE, LINE ALL SURFACES OF THE SHEAR KEY WITH CLOSED CELL FOAM AS SHOWN. PIER DIAPHRAGM CONCRETE MAY NOT COME IN DIRECT CONTACT WITH THE PIER CAP CONCRETE MASONRY.
6. SLOPE SHEAR KEY DRAIN 5% (MIN.) TOWARDS FACE OF PIER CAP.
7. $\frac{3}{4}$ " ϕ THREADED MECHANICAL REINFORCING BAR SPLICERS SHALL BE CAST-IN-PLACE IN THE PRECAST BEAMS BY THE FABRICATOR AND SHALL BE EMBEDDED AS REQUIRED TO PROVIDE A MINIMUM NOMINAL TENSILE RESISTANCE OF 17 KIPS AS SPECIFIED BY THE MANUFACTURER.

NOTES:

1. *Provide headed mechanical reinforcing bar splicers by beam designation as follows:*

<i>B-24 thru B-30 beams</i>	<i>1 headed reinforcement bar splicer mid beam;</i>
<i>B-33 thru B-48 beams</i>	<i>2 headed reinforcement bar splicers as shown.</i>

Provide #5 intermediate reinforcing bars by beam designation as follows:

<i>B-24 thru B-30 beams</i>	<i>No intermediate bars;</i>
<i>B-33 thru B-48 beams</i>	<i>1 intermediate bar midway between splicers.</i>
2. *Dimension to be provided is equal to total thickness of bearing.*
3. *If the bearing exceeds 16" in diameter, set the 9" dimension to (Bearing Dia.)/2 + 1", and set the 10" dimension to (Bearing Dia.)/2 + 2".*
4. *The Designer shall ensure that at least 2" clear cover is maintained to the top of the deck at all locations.*
5. *To minimize the width of the closure pour, the combination of post-tensioning and continuity reinforcement may be used, if required by design.*
6. *Closure pour transverse reinforcement bar size and spacing shall be the same as for precast concrete deck panels transverse (primary) reinforcement.*
7. *See Dwg. No.'s 6.4.7 & 6.4.8, Part II of this Bridge Manual, for pier diaphragm plan and section to be included on Construction Drawings and modify the Drawings as required.*



LRFD BRIDGE

MANUAL, PART III

DETAILS OVER PIER NOTES FOR BOX BEAMS

PRECAST PIERS

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