**DECK PANEL SUPPORTS**

The contractor shall provide the deck panel support system shown on this drawing. The deck panel support system shall be designed by the contractor for approval. The deck panel support system shall be of a design to be used for the project.

**GENERAL NOTES**

1. The design compressive strength (f'c) for the concrete in prestressed panels shall be 2800 psi minimum at 28 days. Compressive strength of concrete at time of release of strands shall be 2000 psi minimum.

2. The prestressed panel shall have a thickness of 2.125" with the prestressed strands located at 2.125" from the edges of the panel.

3. For specified spans, prestressed closure panels shall have a minimum width of 2 feet on the short side.

4. Prestressing strands shall extend 2" beyond the panel sides.

5. Shear reinforcing of 0.75 inches of reinforcing steel per 10 feet of panel length shall be provided in the panel to reduce composite action between panel and the cast-in-place concrete. Shear reinforcing shall be made of welded wire having a minimum yield strength of 60 ksi.

6. Shear reinforcing and lifting devices shall be constructed and placed so as to avoid any interference with reinforcing steel in the cast-in-place deck slab and to allow for proper concrete consolidation in the deck slab.

7. When casting the deck, place concrete first over the girders in continuous strips a minimum of three panel lengths ahead of the rest of the concrete. Carefully vibrate the concrete over the girders so that concrete completely fills the area under the deck panel overhangs. Then place and vibrate the concrete in this area first.

8. When casting the deck, place concrete first over the girders in continuous strips a minimum of three panel lengths ahead of the rest of the concrete. Carefully vibrate the concrete over the girders so that concrete completely fills the area under the deck panel overhangs. Then place and vibrate the concrete in this area first.

9. Shear reinforcing and lifting devices shall be constructed and placed so as to avoid any interference with reinforcing steel in the cast-in-place deck slab and to allow for proper concrete consolidation in the deck slab.

**DECK PANEL SUPPORT SYSTEM**

- All polystyrene shall be Dow Styrofoam D3000 or equivalent.
- The polystyrene support system shall consist of one layer with a minimum width of 2.125" and a minimum height of 0.625". The polystyrene shall have a 1/16" wide slot or 1/32" wide hole at 4'-0" centers staggered along the top and bottom.
- The polystyrene may be cut and placed on edge as necessary to match the required surface profiles along the girders.
- Adhesive, as approved by the engineer, shall be applied to the top of the girders. This adhesive shall be of sufficient quantity to prevent the polystyrene from sliding over the girders. Pre-cast concrete shall be placed after the polystyrene and the adhesive are applied to the top of the polystyrene.
- Concrete-filled slots, stacks of deck panels, bundled reinforcing bars or other means of reinforcement shall be placed in the polystyrene support system.

**POLYSTYRENE SUPPORT**

- 1/4"dia. bars
- 1/2"dia. bars
- 1/8"dia. slots
- 1/4"dia. holes
- Crossbar at 2" centers
- Concrete placed in this area only

**PROJECT NO.**

- **COUNTY**

- **STATION:**

- DEPARTMENT OF TRANSPORTATION

- **PRECAST PRESTRESSED CONCRETE DECK PANELS**

- **STUB. NO.** PD1