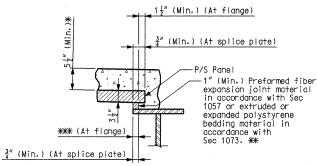


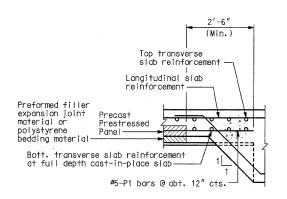
PANELS-SQUARED ENDS

PLAN OF PRECAST PRESTRESSED PANELS PLACEMENT

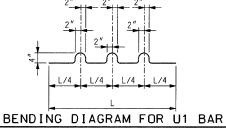


SECTION A-A

The thickness of the preformed fiber expansion joint material or polystyrene bedding material shall be adjusted to achieve the slab haunching dimension found on Sheet Nos. 66 thru 75. These adjustments shall be within the limits noted in general notes.

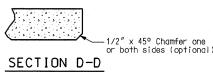


PART SECTION B-B



PLAN OF PRECAST PRESTRESSED PANEL

(U1 Bars may be oriented at right angles to location and spacing shown. U1 Bars shall be placed between P1 bars).



Detailed JUL 2009 Checked JUL 2009

or both sides (optional)

-€ 1/2" Ø Strand and U1 bar #3-111 ፟ " Ø Strand-DETAIL "A"

Notes:

The thickness of the preformed fiber expansion joint material or additional additional actions and additional add The thickness of the preformed fiber expansion joint material or polystyrene bedding material shall be adjusted to achieve the slab haunching dimension found on sheet 66 thru 75. These adjustments shall be within the limits noted in general notes.

** Adjustment in the slab thickness, preformed fiber expansion joint material or polystyrene bedding material thickness, or grade will be necessary if the girder camber after erection differs from plan camber by more than the % of dead load deflection due to the weight of structural state. No garment will be made for additional labor or

2 1/2" in tangent regions (normal crown) of girders. 3" in superelevated and transition regions.

GENERAL NOTES

Prestressed Panel Notes:

Precast panels shall be in accordance with Sec 1029.

Concrete for prestressed panels shall be Class A-1 with f'c = 6.000 psi. f'ci = 4.000 psi.

The top surface of all panels shall receive a scored finish with a depth of scoring of 1/8" perpendicular to the prestressing strands in the panels with a maximum spacing

Prestressing tendons shall be high-tensile strength uncoated seven-wire, low-relaxation strands for uncoared seven-wire. Tow-releation strands for prestressed concrete in accordance with AASHTO M 203 Crade 270, with nominal diameter of strand = 1/2" and nominal area = 0.153 sq. in. and minimum ultimate strength = 41.31 klps (270 ksi).

Initial prestressing force = 30.9 kips/strand. The

method and sequence of releasing the strands shall be shown on the shop drawings.

shown on the shop drawings.

Suitable anchorage devices for lifting panels may be cast in panels, provided the devices are shown on the shop drawings and approved by the engineer. Panel lengths shall be determined by the contractor and shown on the shop drawings.

Minimum preformed fiber expansion joint material or polystyrene bedding material thickness shall be 1 inchexcept over splice plates where minimum thickness shall be 1/4 inch. When the material is less than 1/2 inch thick over a splice plate, the width of material at the splice shall be the same width as panel on splice. Thicker material may be used on one or both sides of the girder to reduce cast-in-place concrete thickness to within tolerances. No more than 3" total thickness shall be used in the tangent regions of the girder and shall be used in the tangent regions of the girder and no more than 4" total thickness shall be used in superelevation transition and full superelevation regions of the girder.

The same thickness of material shall be used under any

one edge of any panel except at splices, and the maximum change in thickness between adjacent panels shall be 1/4 inch to correct for variations from girder camber diagram. The polystyrene bedding material may be cut to match haunch height above top of flange.

Reinforcing Steel Notes:
All dimensions are out to out.
Minimum clearance to reinforcing steel shall be 1 1/2".

unless otherwise shown.

Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.

Actual lengths are measured along centerline of bar to

the nearest inch.

The prestressed panel quantities are not included in the table of estimated quantities for slab.

If U1 bars interfere with placement of slab steel. U1

loops may be bent over, as necessary, to clear slab

Welded wire fabric or welded deformed bar mats providing a minimum area of reinforcing perpendicular to strands of 0.22 sq. in./ft., with spacing parallel to strands sufficient to insure proper handling, may be used in lieu of the #3-P2 bars shown. Wire or bar diameter shall not be larger than 0.375

The reinforcing steel shall be tied securely to the 1/2"Ø strands with the following maximum spacing in each direction: #3-P2 bars at 16 inches.

Welded wire fabric or welded deformed bar mats at 2'-0".

Tie the #3-U1 bars to the #3-P2 bars, to the welded wire fabric or the welded deformed bar mats at about 3'-0" centers.

All reinforcement other than prestressing strands shall be epoxy coated.

CONTRACT NO.76D6 F.A. ROUTE SECTION 82-1B-2 FED. AID PROJECT ILLINOIS COUNTY ST. CLAIR JSER NAME = JJolliff PLOT SCALE = \$SCALE\$ PLOT DATE = 4/14/2010 DESIGNED - HNTE CHECKED - CMT DRAWN CMT / HNTB REVISED -REVISED REVISED REVISED

BRI STRU PI RIVI IS APPROACH I-70 MISSISSIPI -OR ILLINOIS TRANSPORTATION COMMISSION MISSOURI HIGHWAYS
TRANSPORTATION COM OF OF STATE DEPARTMENT C



DETAILS OF PRECAST PRESTRESSED PANELS