

**General Notes:**

**Prestressed Panels:**  
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.

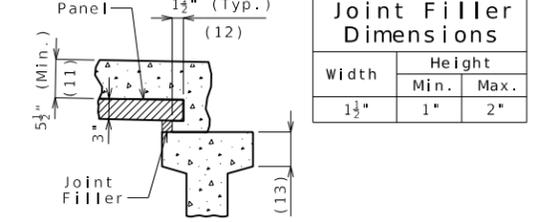
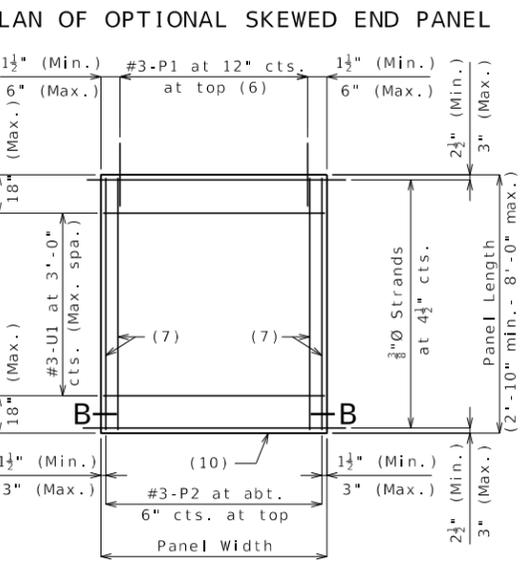
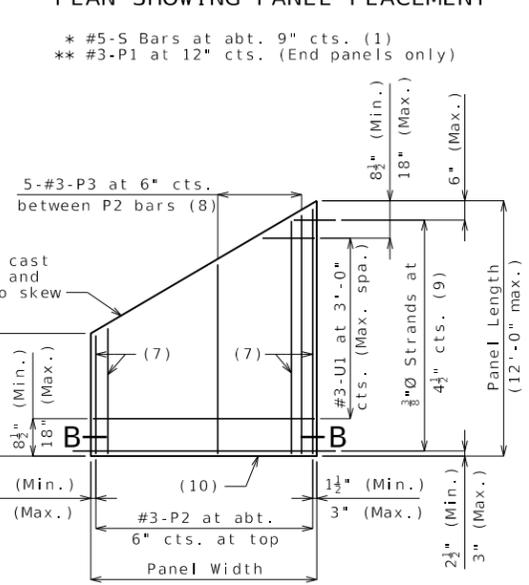
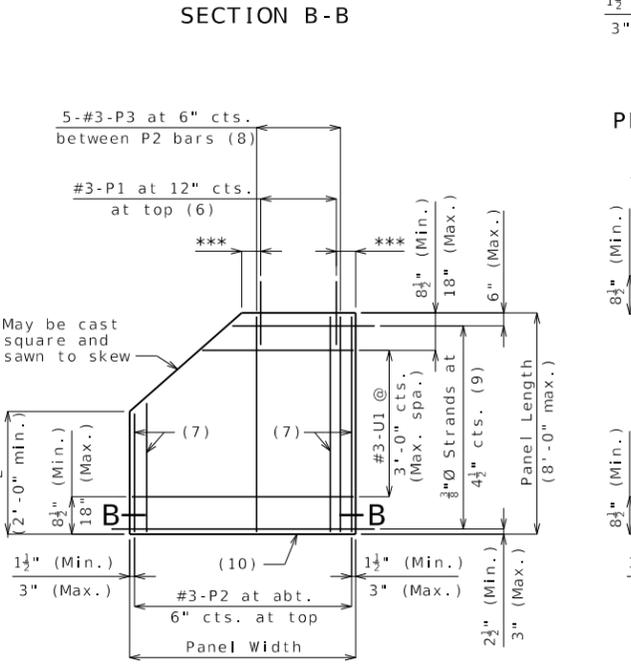
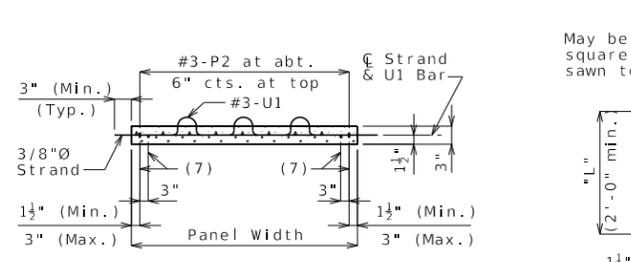
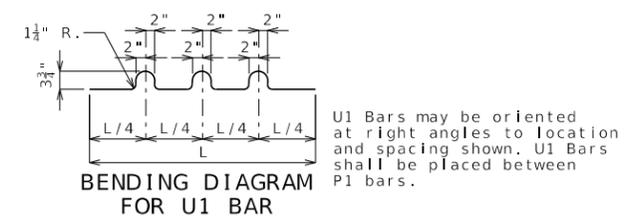
Prestressing tendons shall be high-tensile strength, uncoated, seven-wire, low-relaxation strands for prestressed concrete in accordance with AASHTO M 203 Grade 270, with nominal diameter of strand = 3/8" and nominal area = 0.085 sq. in. and minimum ultimate strength = 22.95 kips (270 ksi). Larger strands may be used with the same spacing and initial tension.

Initial prestressing force = 17.2 kips/strand.

The method and sequence of releasing the strands shall be 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.

SQUARED END PANELS OR TRUNCATED END PANELS PLAN SHOWING PANEL PLACEMENT



**Reference Notes:**

- Plan of Panel Placement:**
- (1) S-bars shown are bottom steel in slab between panels and used with squared and truncated end panels only.
  - (2) Extend S-bars 18 inches beyond the front face of end bents and int. bents for squared and truncated end panels only.
  - (3) Extend S-bars 9 inches beyond edge of girder (Typ.).
  - (4) End panels shall be dimensioned 1/2" min. to 1 1/2" max. from the inside face of diaphragm.
  - (5) For truncated end panels, use a min. of #5-S bars at 6" crossings in openings, or min. 4x4-W7xW7.
  - (6) For end panels only, P1 bars shall be 2'-0" in length and embedded 12". P1 bars will not be required for panels at squared integral end bents.
  - (7) #3-P2 bars near edge of panel at bottom (under strands).
  - (8) Use #3-P3 bars if panel is skewed 45° or greater.
  - (9) Any strand 2'-0" or shorter shall have a #4 reinforcing bar on each side of it, centered between strands. Strands 2'-0" or shorter may then be debonded at the fabricator's option.
  - (10) Optional 1/2" x 45° Chamfer one or both sides at bottom.
- Section A-A:**
- (11) Slab thickness over prestressed panels varies due to girder camber. In order to maintain minimum slab thickness, it may be necessary to raise the grade uniformly throughout the structure. No payment will be made for additional labor or materials required for necessary grade adjustment.
  - (12) Contractor shall ensure proper consolidation under and between panels.
  - (13) At the contractor's option, the variation in slab thickness over prestressed panels may be eliminated or reduced by increasing and varying the girder top flange thickness. Dimensions shall be shown on the shop drawings.

**PRESTRESSED PANELS**

DATE PREPARED	2/24/2023
ROUTE	STATE
DISTRICT	MO
SHEET NO.	1
COUNTY	
JOB NO.	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DESCRIPTION	
DATE	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

Standard Drawing Guidance (do not show on plans):

- ① Modify details if expansion gap is used and add Section B-B at expansion device and additional reference notes as shown on standard drawing for steel structures (PSP06).