

For Strip Seal Joint Details,
See Dwg. Nos. 47095 & 47097

JOB NO. 110395
06830 308' UNITS 47062

11 sp. @ 6"
1-G401

30 sp. @ 12"
1-G401

4 sp. @ 3"
1-G502

2 sp. @ 10 1/4"
2-G403

14 sp. @ 6"
1-G402

7'-6"

7'-6"

Hold-Down Point

Mid-Span between Bearings

Prestressing strands extended through girder end and bent up into diaphragm (Typ.) (6 total) (See view C-C)

GENERAL NOTES - GIRDER ONLY

Initial position of girder before strands are released

Final position of girder under dead load

Mid-Span

Brng.

"W"	2.50"
"X"	1.26"

Pretensioning steel shall be $\frac{1}{2}$ " low relaxation strands with a minimum ultimate strength of 270 KSI; and shall conform to AASHTO M203 & supplement. All girders shall be type III as noted on the details and shall be the standard prestressed sections adopted by the Joint Committee of AASHTO and the Prestressed Concrete Institute. All girders shall be cast in concrete floor and deck in metal forms. All work materials shall be as specified in section 802.22 of the Standard Specifications. Concrete shall be class "S" and shall have a minimum of 28 day compressive strength. $f_c = 5,000$ PSI

The contractor shall submit the method and sequence for release of strands, to the Bridge Engineer for approval prior to the casting of the girders.

Tops of the girders shall be rough floated at approximately the time of set. The entire tops of the girders shall be scrubbed transversely with a coarse wire brush to remove all laitance and to produce a roughened surface for bonding slabs.

Girder lengths shown on the design plans are net lengths measured horizontally along the girder centerlines. The girder manufacturer shall make necessary allowances for grade, shortening due to elastic shortening, creep and shrinkage, and expansion joints and etc.

All exposed steel at ends of girders not extended into diaphragm at interior bents shall be protected against corrosion by coating of tar or other waterproofing material.

Girders must be maintained in an upright position at all times and must be picked up from points near the girder ends. Disregard of this requirement may lead to collapse of the girder. The contractor's proposed lifting details shall be submitted on shop drawings to the Bridge Engineer for approval. The use of holes for lifting purposes will not be permitted.

Reinforcing steel shall be AASHTO M31-94, Gr.60 and shall be paid as subsidiary to prestressed girders.

The contractor may submit alternate strand patterns with design calculations for review and approval.

For additional General Notes, Dwg No. 47061.

TABLE OF VARIABLES

Girder Mark	L
PG1 III-26	$74^{\circ}-10\frac{9}{16}''$
PG2 III-26	$74^{\circ}-11\frac{1}{16}''$
PG3 III-26	$74^{\circ}-11\frac{11}{16}''$
PG4 III-26	$75^{\circ}-0\frac{9}{16}''$
PG5 III-26	$75^{\circ}-0\frac{7}{8}''$
PG6 III-26	$75^{\circ}-1\frac{1}{16}''$
PG7 III-26	$74^{\circ}-1\frac{19}{16}''$
PG8 III-26	$74^{\circ}-11\frac{1}{16}''$
PG9 III-26	$74^{\circ}-11\frac{15}{16}''$
PG10 III-26	$75^{\circ}-0\frac{1}{16}''$
PG11 III-26	$75^{\circ}-0\frac{1}{4}''$
PG12 III-26	$75^{\circ}-0\frac{9}{16}''$
PG13 III-26	$75^{\circ}-0''$

Mark	No. Req'd	Length	P.D.
G401	84	9'-5"	2"
G402	30	4'-7"	2"
G403	12	7'-6"	STR.
G501	4	39'-0"	STR.
G502	10	7'-4"	3 1/2"
G503	6	2'-0"	STR.

Bending Diagrams
(Dimensions are out to out of bars.)

G401
G402
G502

Technical drawings of three types of rivets:

- G401:** A standard rivet with a head diameter of $3\frac{1}{2}$ inches and a height of $4 - 1\frac{1}{2}$ inches. The shank diameter is T .
- G402:** A countersunk rivet with a head diameter of $3\frac{1}{2}$ inches, a head height of $1 - 1\frac{1}{2}$ inches, and a body diameter of $1 - 8$ inches. The shank diameter is T .
- G502:** A blind rivet with a head diameter of $3\frac{1}{2}$ inches and a body diameter of $3 - 7$ inches. The shank diameter is T .

DETAILS OF 308'-0" CONT.
PRESTRESSED CONCRETE GIRDER UNIT
(SHEET 11 OF 11)

WHITE RIVER STR. & APPRS.
(CLARENDON) (PH III) (F)
MONROE COUNTY

ROUTE 79 SEC. 13
ARIZONA STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

Engstrom/Modjeski and Masters

DRAWN BY: YO DATE: Nov. 07 FILENAME: b11039511_s11
 CHECKED BY: JES DATE: Nov. 01 SCALE: $\frac{3}{4}" = 1'-0"$
 DESIGNED BY: YO DATE: Nov. 01
 BRIDGE NO. 06830 DRAWING NO. 47062

BRIDGE ENGINEER