

Concrete for prestressed girders shall be Class A-1 with  $f'c = 8000$  psi and  $f'ci = 6500$  psi.

(+) indicates prestressing strand.

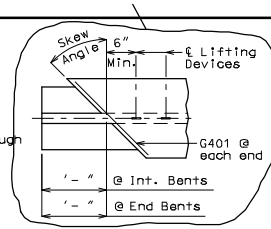
Use strands with an initial prestress force of \_\_\_\_\_ kips.

Prestressing tendons shall be uncoated, seven-wire, low-relaxation strands, 0.6 inch diameter in accordance with AASHTO M 205, Grade 270. Pretensioned members shall be in accordance with Sec 1029.

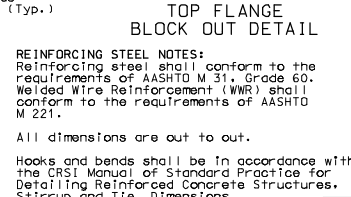
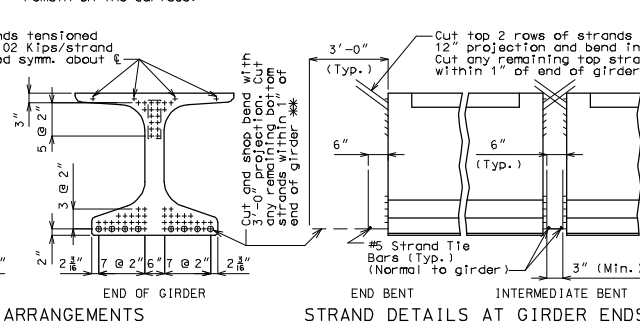
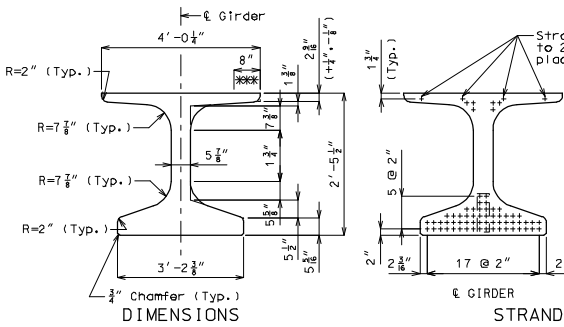
Girders shall be lifted by devices designed by the fabricator.

\*\*\* At the contractor's option the location for bent-up strands may be varied from that shown. The total number of bent-up strands shall not be changed. One strand tie bar is required for each layer of bent-up strands except at end bents which require one bar on the bottom layer of strands only. No additional payment will be made if additional strand tie bars are required.

\*\*\* Girder top flange shall be steel troweled to a smooth finish for 8" at the edges, as shown. Bond breaker shall be applied to this region only. The center portion shall be rough finished by scarifying the surface transversely with a wire brush, and no laitance shall remain on the surface.

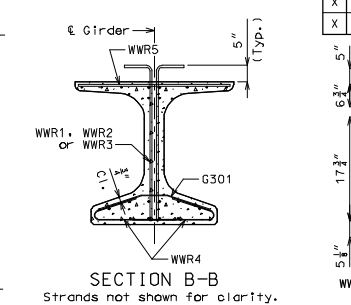
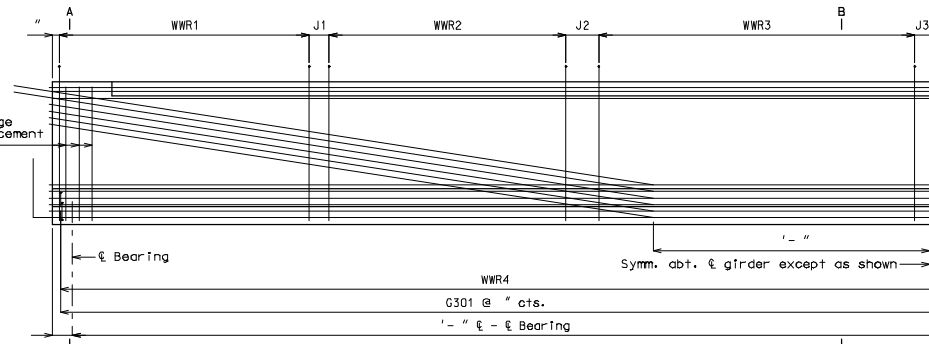
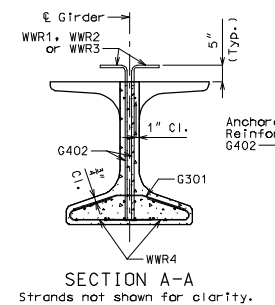


ROUTE	STATE	DISTRICT	SHEET NO.
	MO	BR	
JOB NO.			"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."
CONTRACT ID.			
PROJECT NO.			DATE
COUNTY			

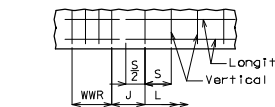
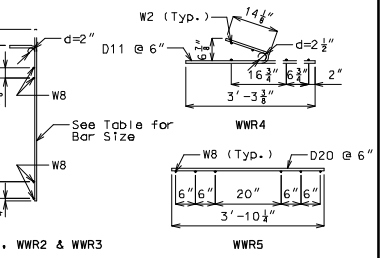


REINFORCING STEEL NOTES:  
Reinforcing steel shall conform to the requirements of AASHTO M 31, Grade 60. Welded Wire Reinforcement (WWR) shall conform to the requirements of AASHTO M 221.  
All dimensions are out to out.  
Hooks and bends shall be in accordance with the CRSI Manual of Standard Practice for Detailing Reinforced Concrete Structures, Stirrup and Tie Dimensions.  
Minimum clearance to reinforcing shall be 1", unless otherwise shown.  
Actual lengths are measured along centerline of bar to the nearest inch.

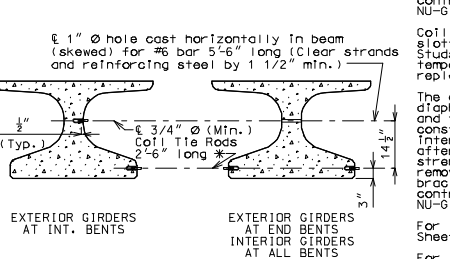
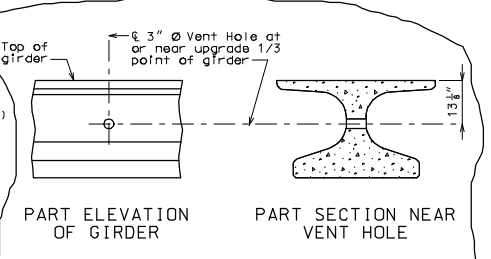
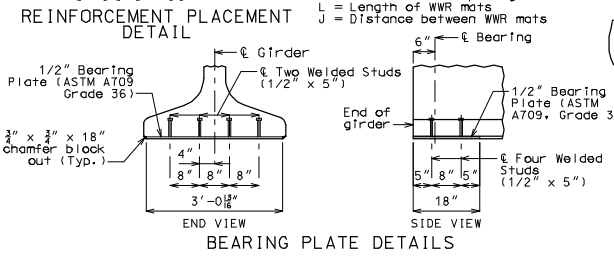
NO.	SIZE & SHAPE	ACTUAL LENGTH	SHAPE	REINFORCING DIAGRAM
XXX	3 G301	2'-11 1/8"	15	SHAPE 15 (G301)
2	4 G401	XX'-XX"	20	
XXX	X G402	2'-3"	20	SHAPE 20 (G401)
				SHAPE 20 (G402)



GRID NO.	BAR SIZE	S1	L1	J1	BAR SIZE	S2	L2	J2	BAR SIZE	S3	L3	J3
X	X	X"	X'-X"	X"	X	X"	X'-X"	X"	X	X"	X'-X"	X"
X	X	X"	X'-X"	X"	X	X"	X'-X"	X"	X	X"	X'-X"	X"



Legend:  
S = Vertical wire spacing  
L = Length of WWR mats  
J = Distance between WWR mats



Galvanize the 1/2" bearing plate (ASTM A709 Grade 36) in accordance with ASTM A123.  
Cost of furnishing, galvanizing, and installing the 1/2" bearing plate (ASTM A709 Grade 36) and welded studs in the prestressed girder will be considered completely covered by the contract unit price for Prestressed Concrete NU-Girder.

Place vent holes at or near upgrade 1/3 point of girders and clear reinforcing steel or strands by 1 1/2" minimum and steel intermediate diaphragm bolt connections by 6" minimum.

Coil ties shall be held in place in the forms by slotted wire-setting studs projecting through forms. Studs are to be left in place or replaced with temporary plugs until girders are erected, then replaced by coil tie rods.  
The contractor must provide any temporary intermediate diaphragms and/or bracing necessary to provide lateral and torsional stability for the girders during construction of the concrete slab. The temporary intermediate diaphragms/bracing shall be removed after the concrete slab has attained 75% of its design strength. The cost for furnishing, installing, and removing the temporary intermediate diaphragms and/or bracing shall be considered completely covered by the contract unit price for the Prestressed Concrete NU-Girder.