



Matthew G. Bevin
Governor

**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

July 20, 2018

CALL NO. 106
CONTRACT ID NO. 181222
ADDENDUM # 1

Subject: Laurel County, STP BRZ 5291 (005)
Letting July 27, 2018

(1) Revised - Plan Sheet - S13

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in cursive script that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:mw
Enclosures



An Equal Opportunity Employer M/F/D

PCI Beam General Notes

CONCRETE: Ensure prestressed girder concrete is in accordance with these plans and the specifications.
 MATERIALS DESIGN SPECIFICATIONS: For prestressed beams:
 F_y = 60,000 psi F_c = 270,000 psi

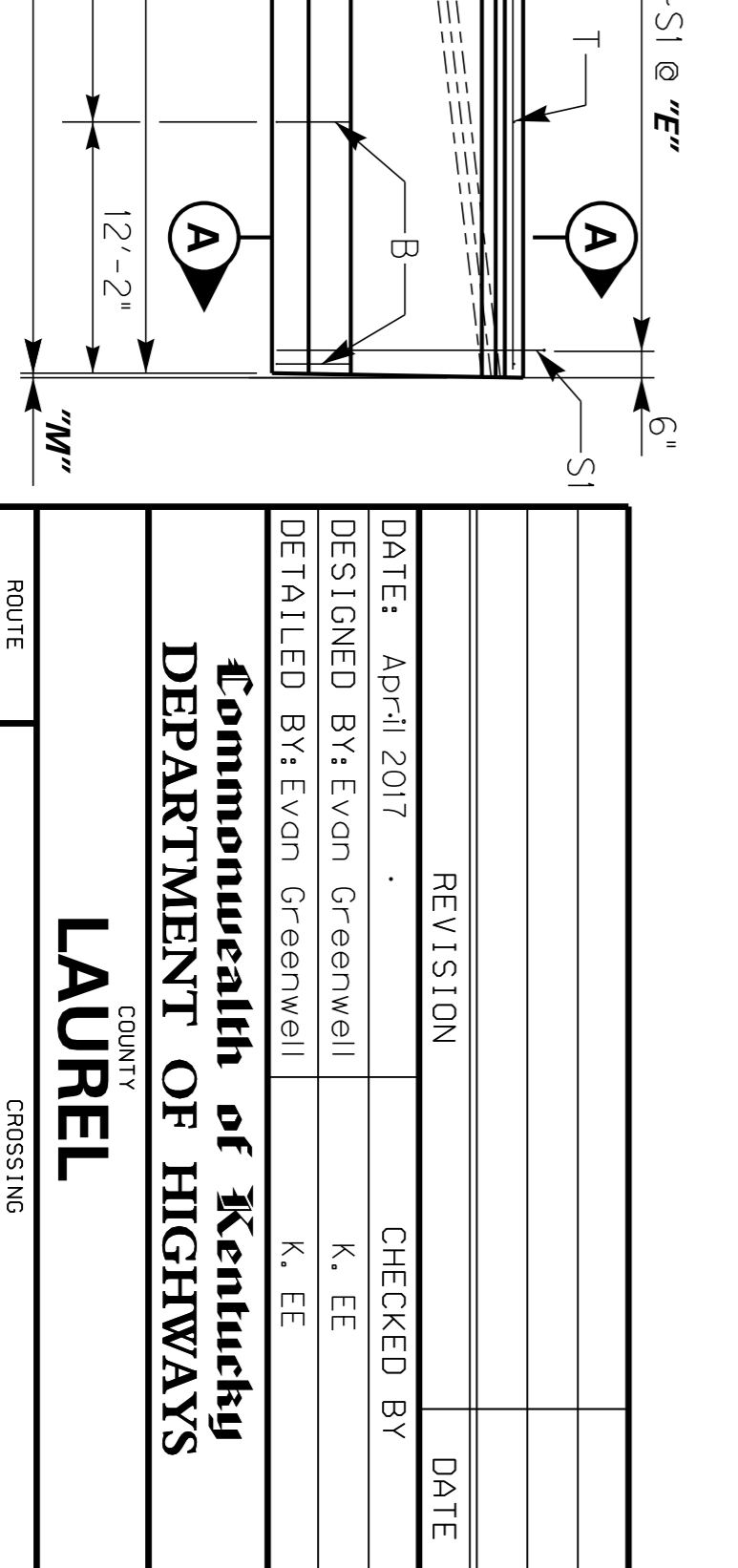
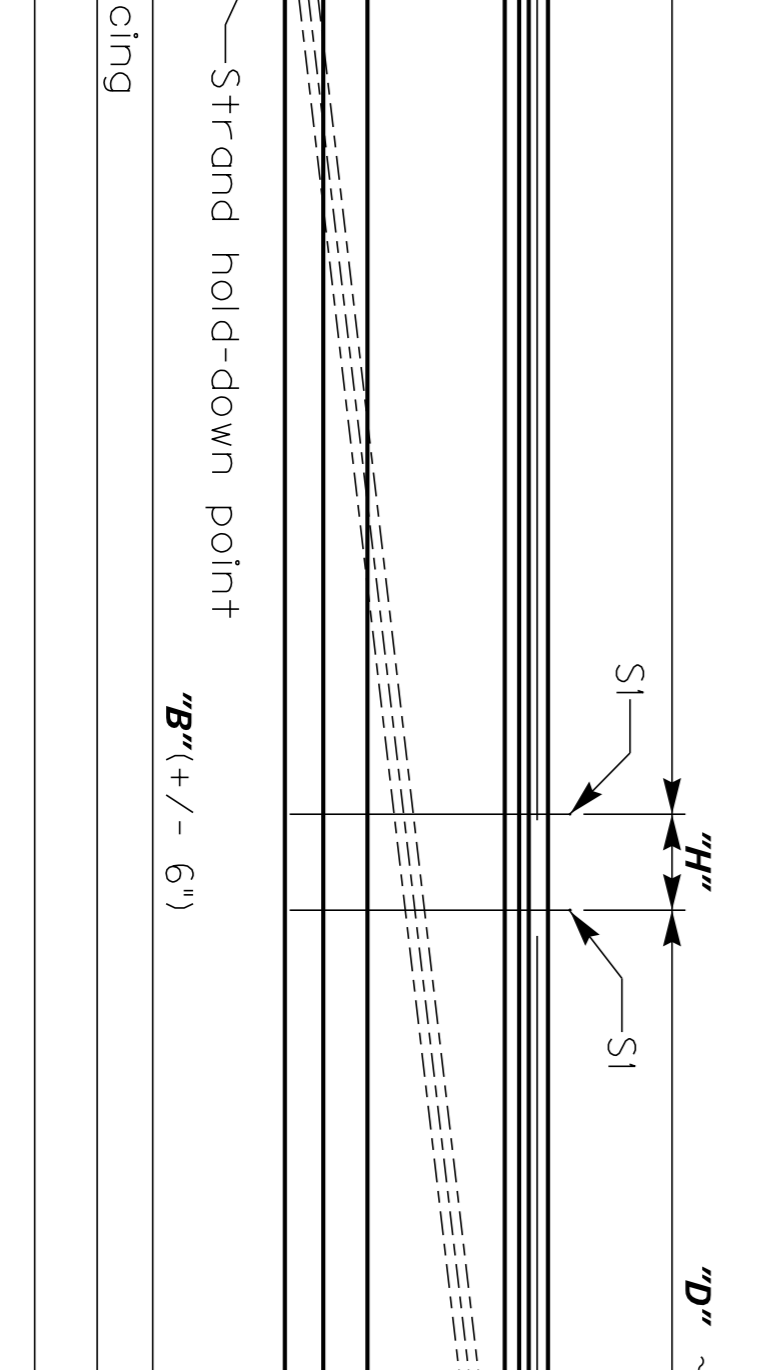
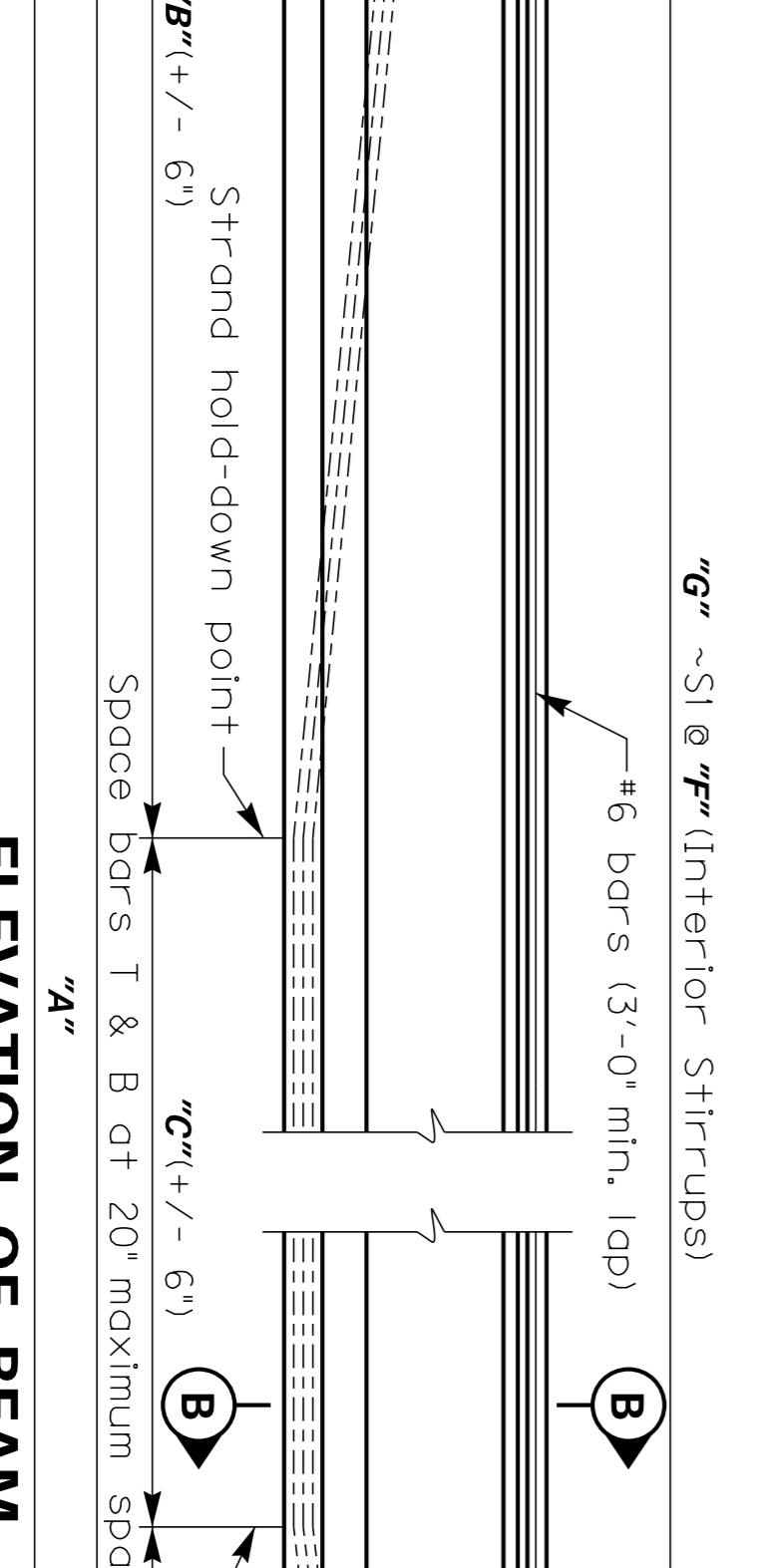
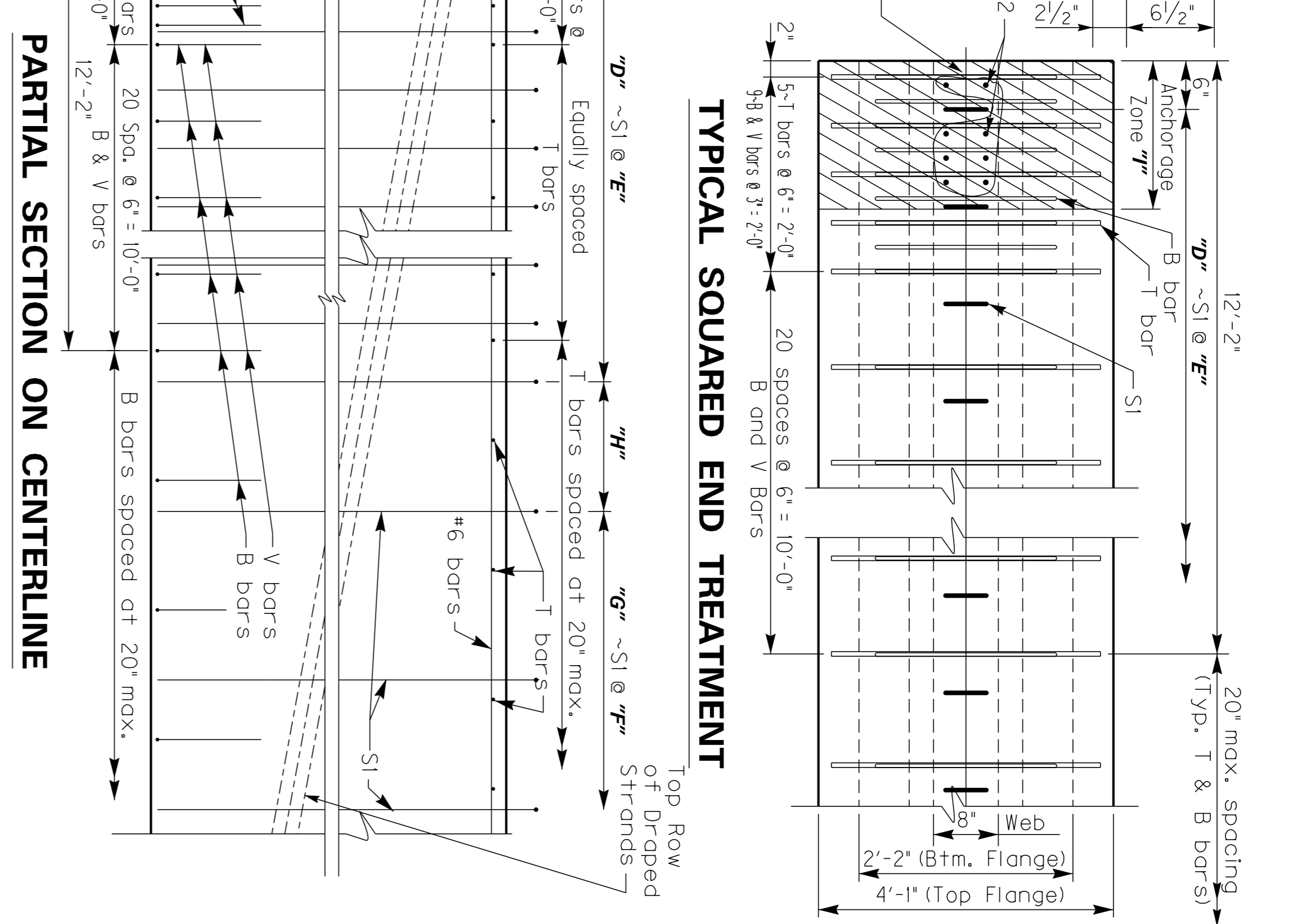
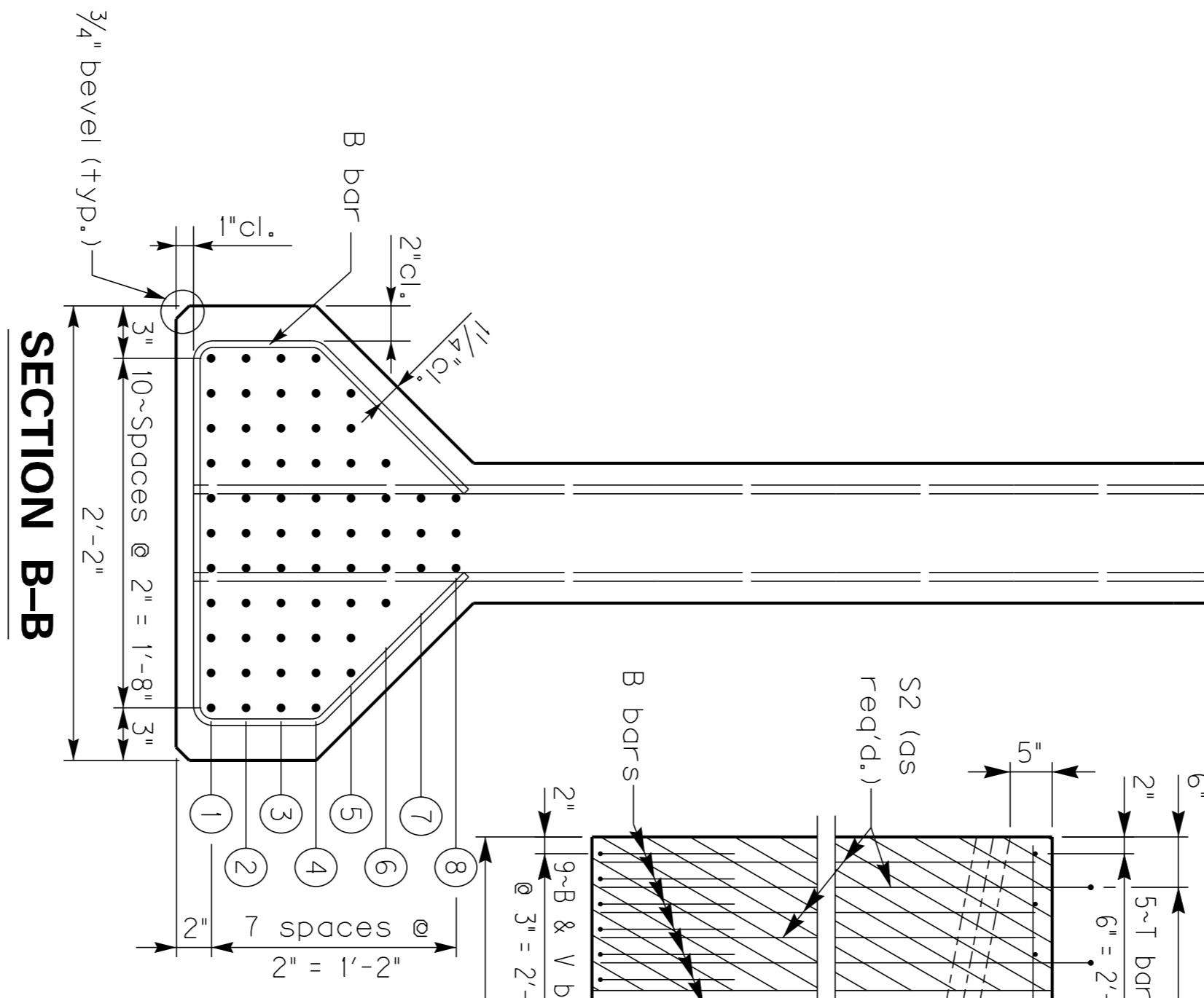
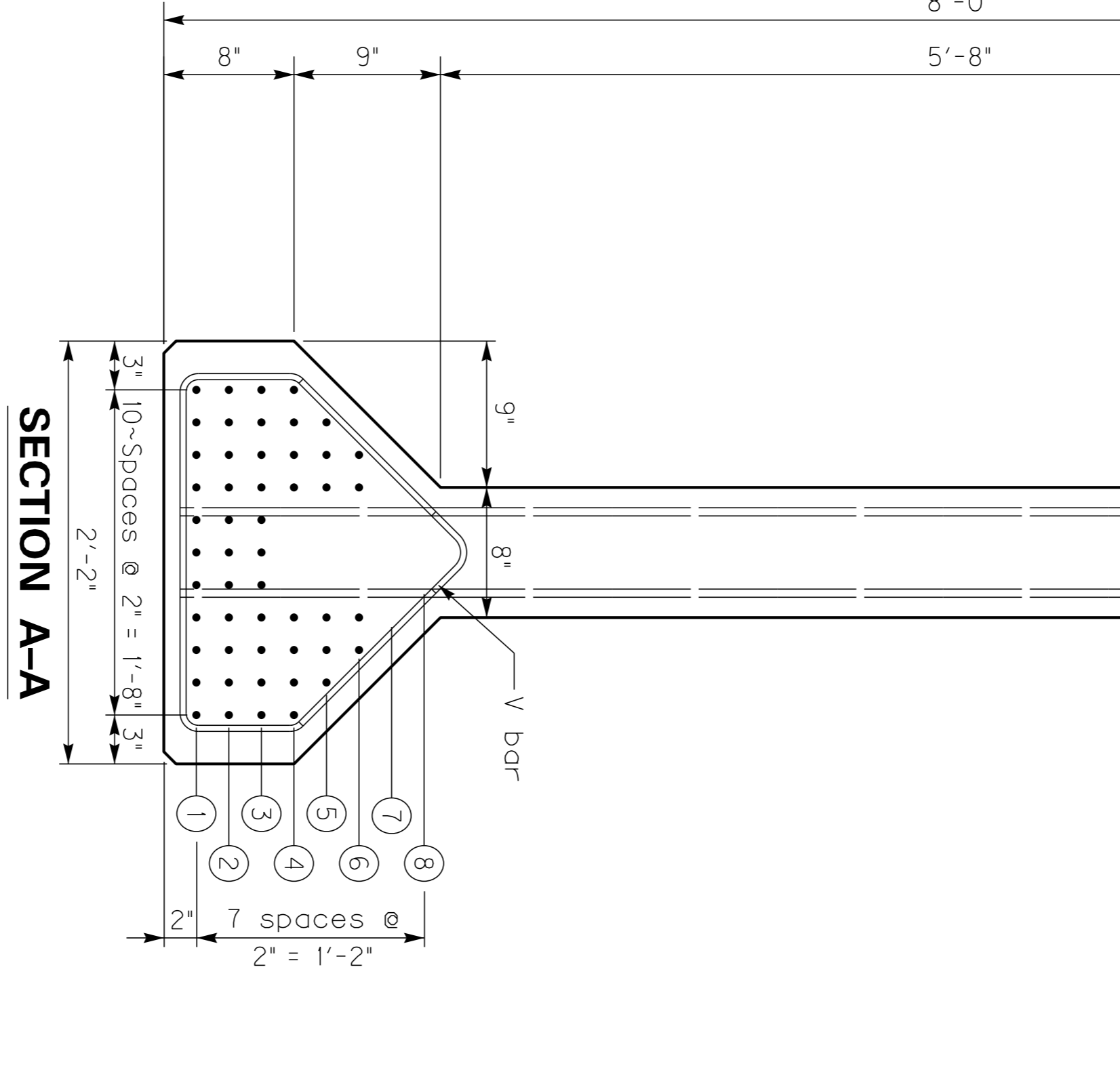
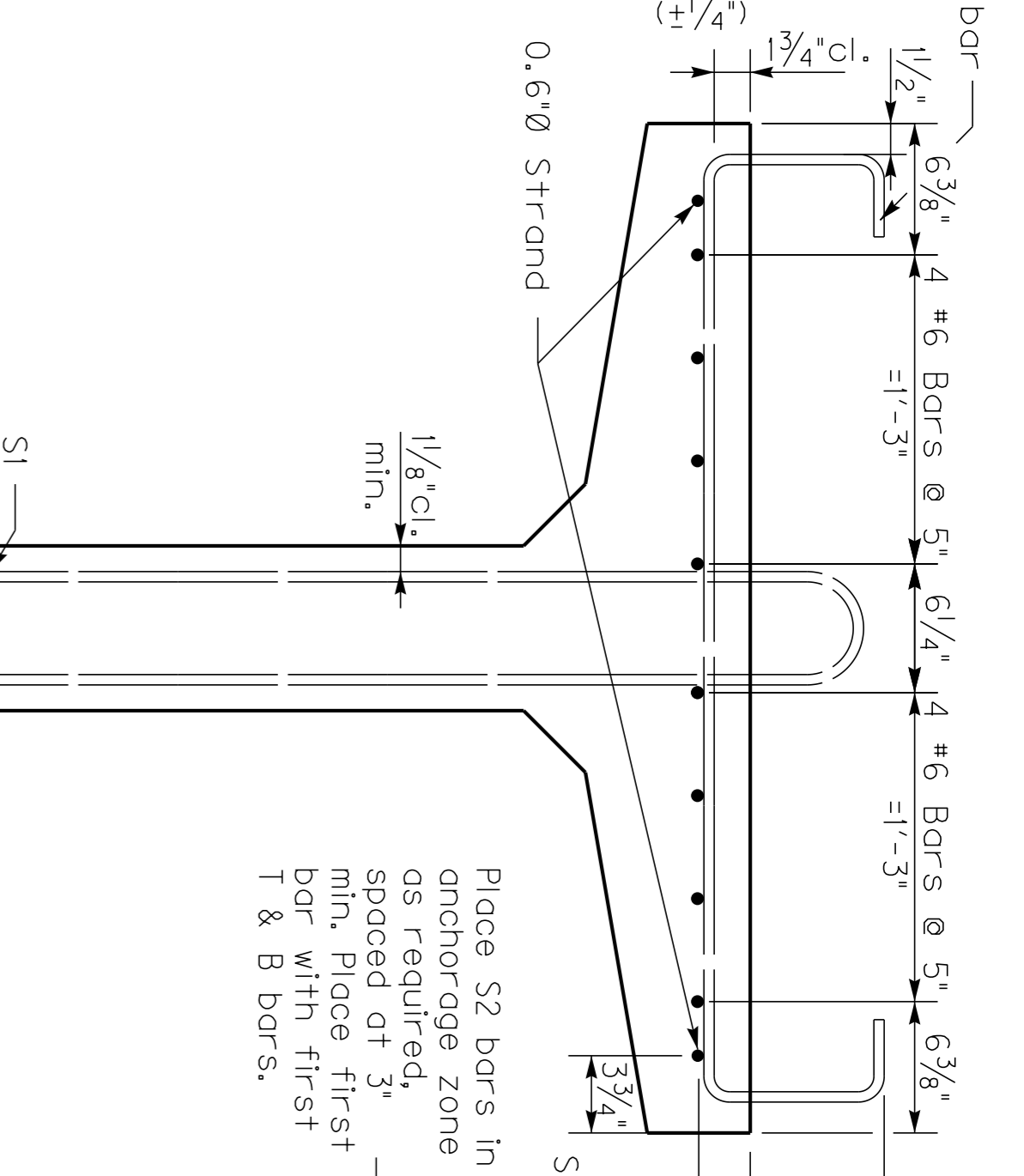
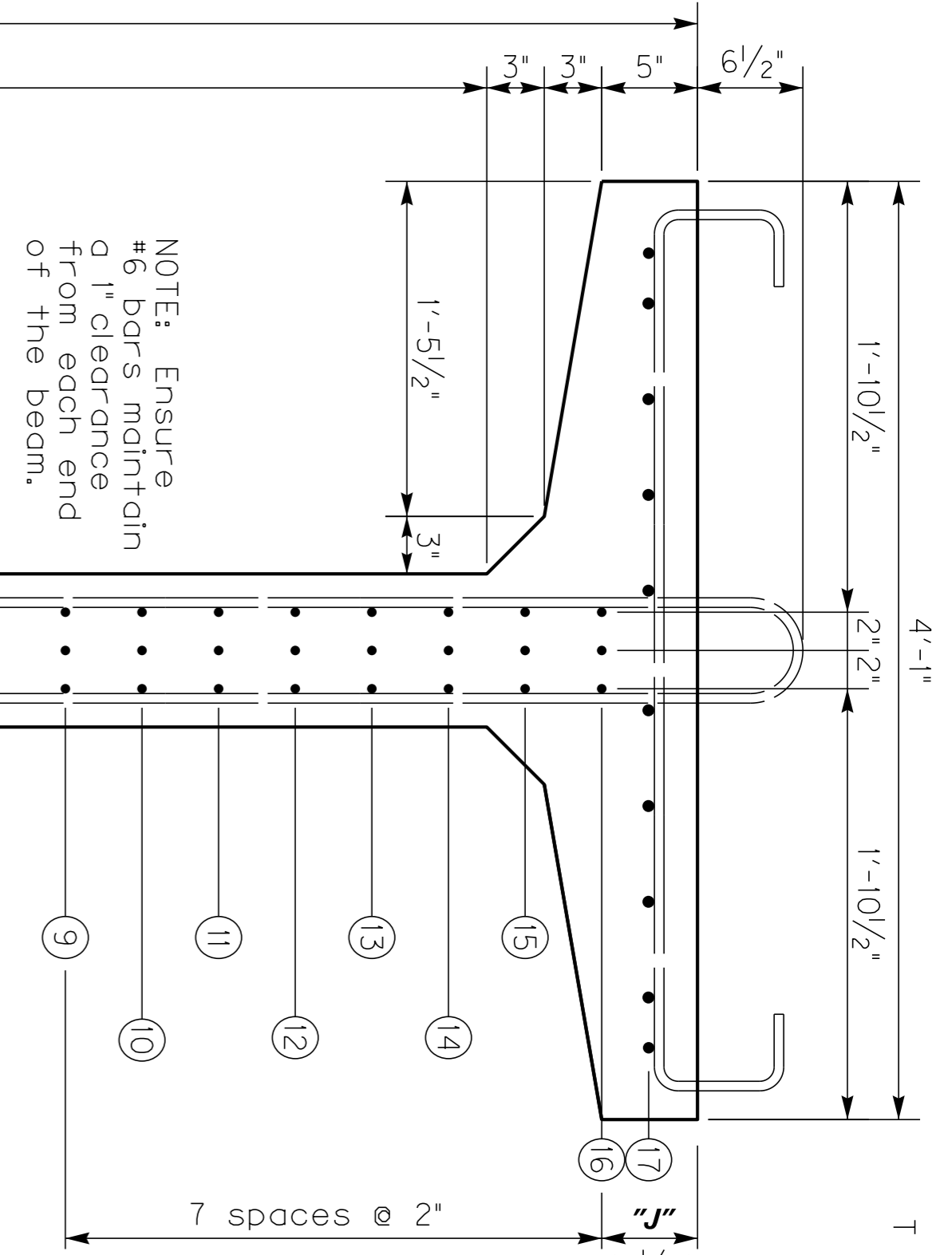
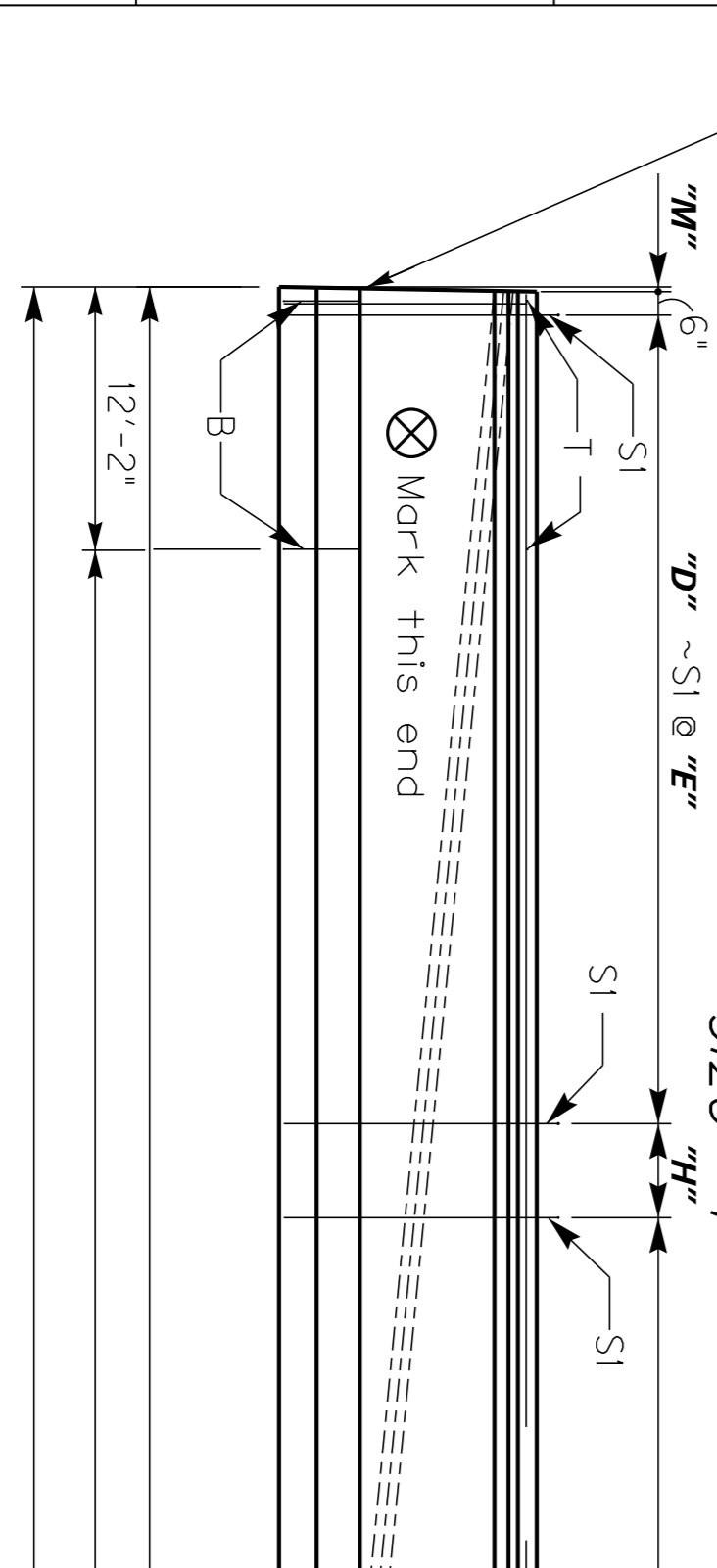
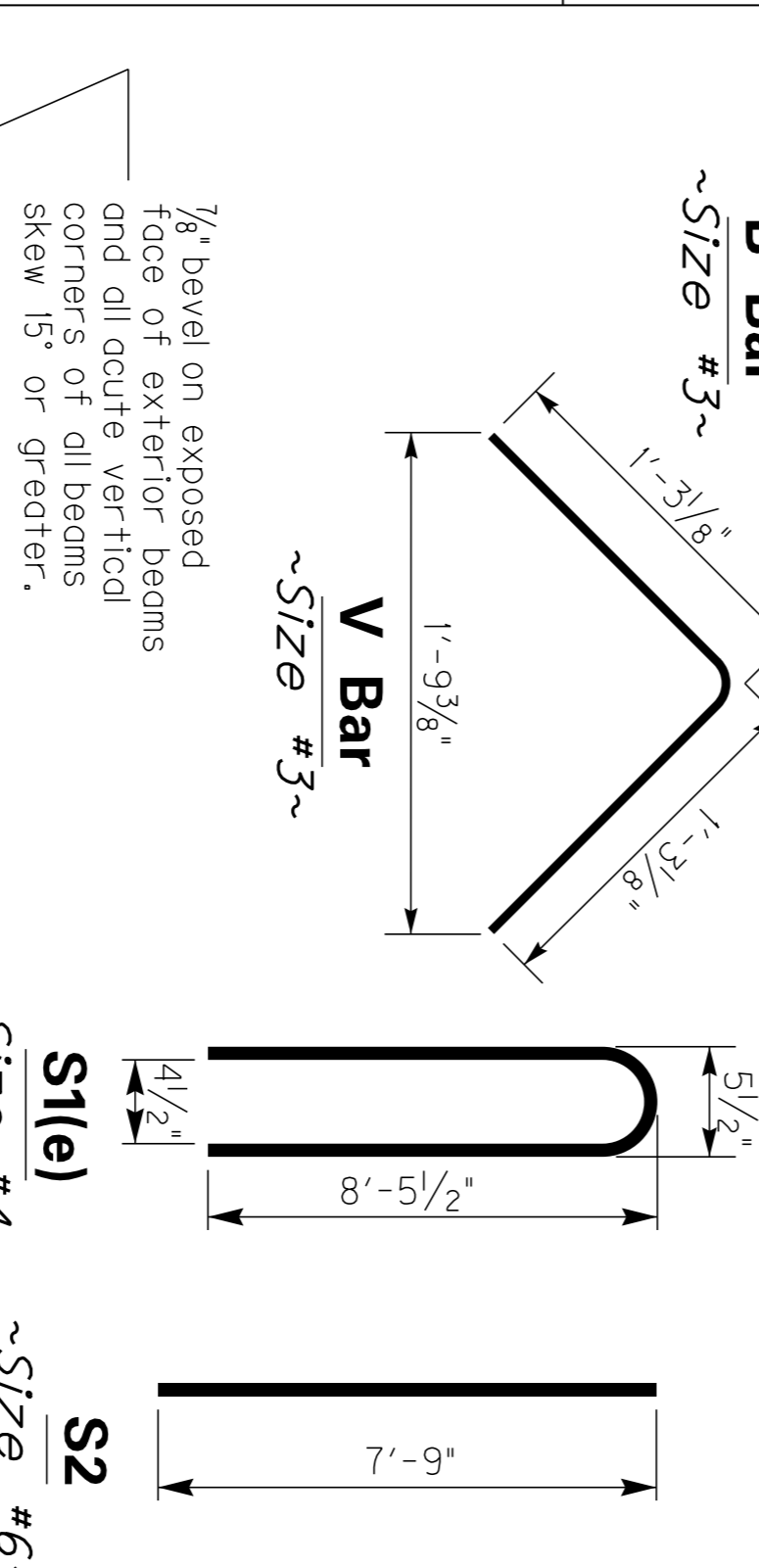
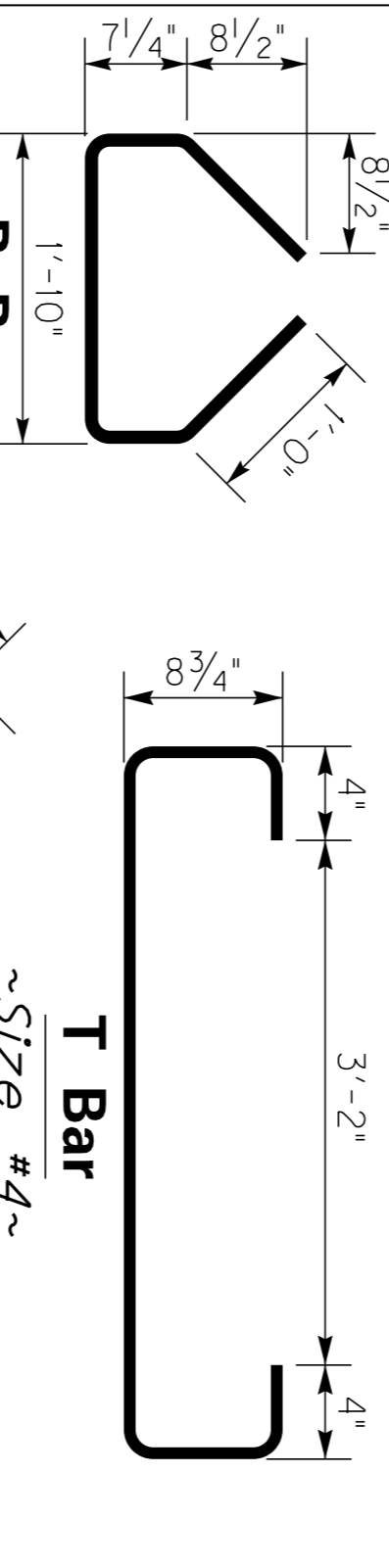
PRESTRESSING REINFORCEMENT: Ensure that strands are 0.6" (nom. diameter), 0.217 sq. in., uncoated seven-wire stress relieved, low-relaxation conforming to AASHTO M 203, Grade 270. Billing of the cost for redesign of beam and subsequent plan modifications will be made for any request of alternate strand type or arrangement. The designer of the original plans is responsible for the billing and work.

BEVELED EDGES: All exposed edges shall be beveled 3/4".

CONSTRUCTION METHOD: Pretension all beams. Ensure concrete has attained f_ci (shown in the table) in standard test cylinders that are made and cured identically with the beams without bond stresses being transferred to the concrete or releasing the end anchors. Attain f_ci (shown in the table) at or prior to 28 days. Apply an initial force of 43,943 lbs. per low-relaxation strand to develop a stress of 202,500 psi. No beam will be accepted that is honeycombed to the extent that strength of the beam or resistance to deterioration has been affected. An allowance of 0.0005L is made for shortening of beams due to shrinkage and elastic change. Show a detensioning plan by sequential numbering of the strand pattern on the shop plans.

LIFTING DEVICES: Detail lifting devices on the shop plans. Loads are to be distributed equally to each device.
 BEARING DEVICES: Include the price for lead plates and/or bearing pods in the bid for precast beams.

FABRICATION: The "Maximum Allowable Camber" shown on the beam sheet is the amount of camber, measured prior to casting the deck, above which the beam will begin to encroach into the slab. If the measured camber is greater than the "Maximum Allowable Camber" the contractor will be responsible for any necessary adjustments to assure a minimum slab thickness as shown in the plans. This work will be considered incidental to the completion of the structure and must have the approval of the Engineer.



Mark	Midspan (SECTION B-B)	End (SECTION A-A)	Total	Concrete Stress (psi)	No. of S Bars	Hold-Down Capacity (lbs.)
11	11	11	11	7000	5	149
10	10	10	10	8000	24	6236
9	9	9	9			
8	8	8	8			
7	7	7	7			
6	6	6	6			
5	5	5	5			
4	4	4	4			
3	3	3	3			
2	2	2	2			
1	1	1	1			
0	0	0	0			
11	11	11	11	7000	5	149
10	10	10	10	8000	24	6236
9	9	9	9			
8	8	8	8			
7	7	7	7			
6	6	6	6			
5	5	5	5			
4	4	4	4			
3	3	3	3			
2	2	2	2			
1	1	1	1			
0	0	0	0			
11	11	11	11	7000	5	149
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5	5	5	5			
4	4	4	4			
3	3	3	3			
2	2	2	2			
1	1	1	1			
0	0	0	0			

Concrete Stress (psi)	No. of S Bars	Hold-Down Capacity (lbs.)	Total
7000	5	149	149
8000	24	6236	6236

Beam Data (measured along centerline)	Dimensions	Approximate Weight	Maximum Allowable Camber
A	160'-2"	213106	4 7/8"
B	75'-1"		
C	10'-0"		
D	39'		
E	10'		
F	16'		
G	71'		
H	15'		
I	24'		
J	51'		
M	0'		

ITEM NUMBER	REVISION	DATE
11-1096.0		

ROUTE KY 312
 CROSSING CRAIG CREEK
PPC I-BEAM TYPE BT96-49 DETAIL
 PREPARED BY
 Division of Structural Design
 SHEET NO. 27635