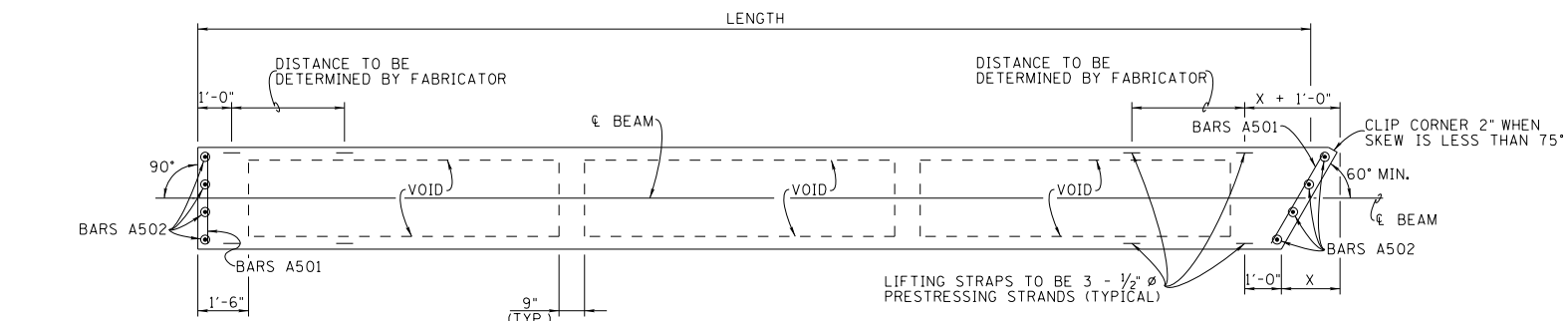
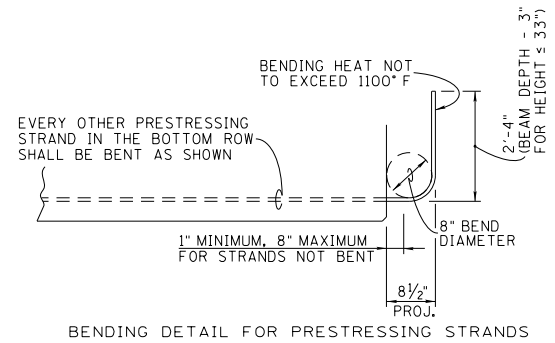


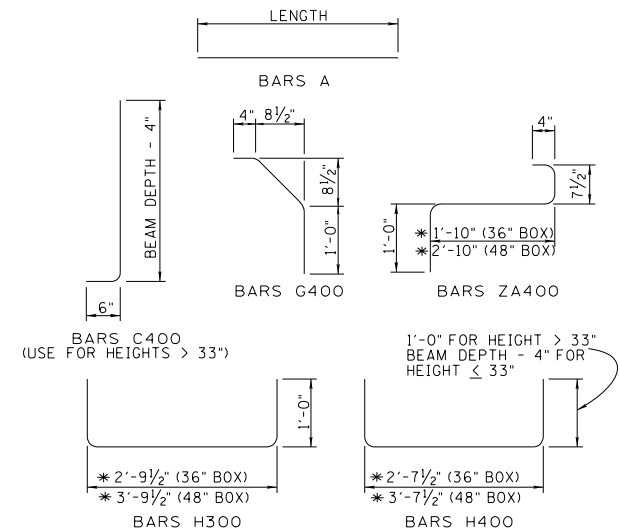
ELEVATION  
(ALONG  $\epsilon$  BEAM)



PLAN  
FOR BEAM AND VOID DIMENSIONS NOT SHOWN, SEE CONTRACT PLANS.



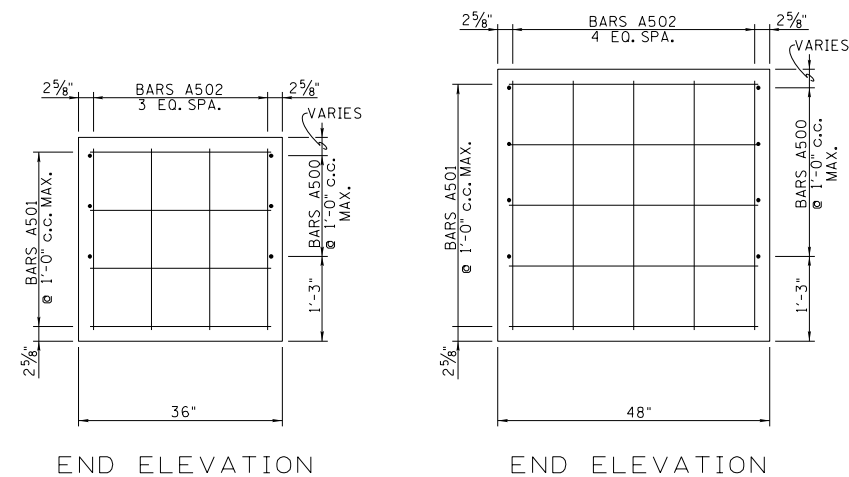
BENDING DETAIL FOR PRESTRESSING STRANDS



\* NOTE: BENDING DIMENSIONS ARE SHOWN FOR 90° SKEW. ADJUST FOR 75° - 90° SKEWS AND FOR FLARED BARS WITH 60° - 75° SKEWS.

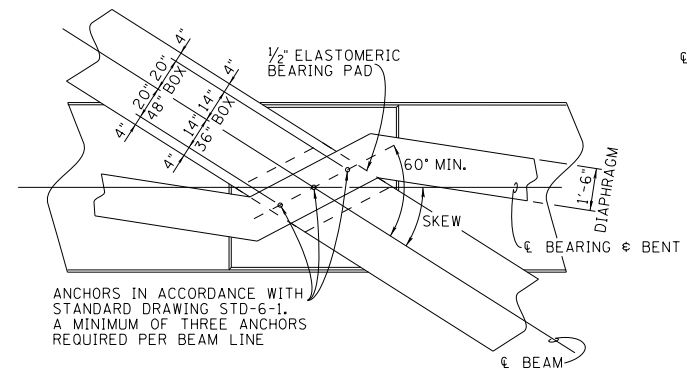
PROJECT NO.	YEAR	SHEET NO.	
	2020		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

- BEAM NOTES:**
- 1) THE TOP OF ALL BEAMS ARE TO BE ROUGH FLOATED. AT APPROXIMATELY THE TIME OF INITIAL SET, THE TOP OF THE BEAMS SHALL ALSO BE SCRUBBED TRANSVERSELY WITH A COARSE WIRE BRUSH TO REMOVE ALL LAITANCE AND PRODUCE A ROUGH SURFACE.
  - 2) MILD STEEL REINFORCING SHALL BE ASTM A615 GRADE 60.
  - 3) ALL PRESTRESSING STRANDS SHALL BE ASTM GRADE 270K, 7 WIRE UNCOATED STRESS RELIEVED LOW RELAXATION PRESTRESSING STRANDS.
  - 4) AN INITIAL FORCE AS SPECIFIED IN THE CONTRACT PLANS SHALL BE APPLIED TO EACH STRAND IN ALL BEAMS.
  - 5) AFTER THE BEAM IS REMOVED FROM THE PRESTRESSING BED, BARS PROJECTING FROM THE ENDS OF THE BEAM SHALL BE COLD BENT (DO NOT HEAT). THE MINIMUM DIAMETER OF THE BEND SHALL BE IN ACCORDANCE WITH STANDARD CRSI HOOK DETAILS.
  - 6) THE PRESTRESSING STRANDS SHALL BE LEFT PROJECTING AS SHOWN IN THE BENDING DETAILS FROM THE ENDS OF THE BEAMS. THE STRANDS SHALL BE CUT WITHOUT HEATING ADJACENT STRANDS. THERE SHALL NOT BE ANY PROTECTIVE COATING PLACED ON THE ENDS OF THE BEAM OR ON THE PROJECTING STRANDS.
  - 7) COST OF ELASTOMERIC BEARING PADS AND RUBBER BONDING CEMENT TO BE INCLUDED IN THE COST OF THE PRESTRESSED BEAMS.
  - 8) THE SEQUENCE FOR TRANSFER OF STRESS OR THE CUTTING STRANDS SHALL BE IN ACCORDANCE WITH ARTICLE 615.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND SHALL BE SHOWN ON THE APPROVED SHOP DRAWINGS. AT NO TIME SHALL MORE THAN 1/6th OF THE TOTAL PRESTRESSING FORCE BE ECCENTRIC ABOUT THE CENTERLINE OF THE BEAM.
  - 9) 1" DIA. WEEP HOLES SHALL BE PROVIDED AT THE LOW POINT OF EACH CELL. VENT HOLES SHALL BE PROVIDED IN THE TOP OF EACH CELL DURING FABRICATION TO RELIEVE GAS PRESSURES THAT OCCUR DURING CURING. THE VENT HOLES SHALL BE PLUGGED AFTER CURING IS COMPLETED.

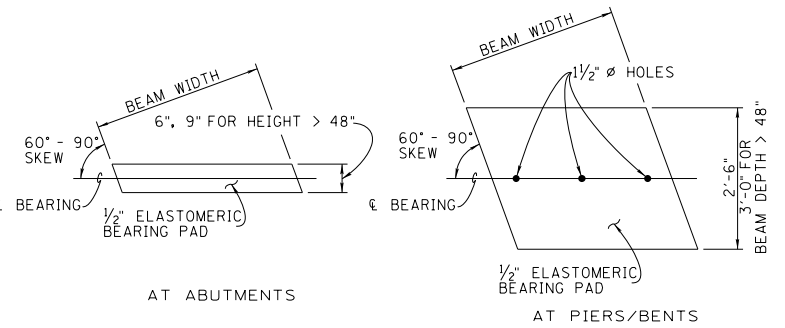


END ELEVATION

END ELEVATION



PLAN SHOWING ANCHORS IN BENT CAP



ELASTOMERIC BEARING PAD DETAILS  
USE 1/2" THICK ELASTOMERIC BEARING PADS UNLESS SHOWN OTHERWISE ON THE CONTRACT PLANS.

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
STANDARD DETAILS  
FOR  
PRESTRESSED  
BOX BEAMS  
2020

DESIGNED BY MARK HOLLORAN DATE \_\_\_\_\_  
DRAWN BY KIM FRANKENFIELD DATE \_\_\_\_\_  
SUPERVISED BY MARK HOLLORAN DATE \_\_\_\_\_  
CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_

CORRECT *Del A. Krawczyk*  
ENGINEER OF STRUCTURES