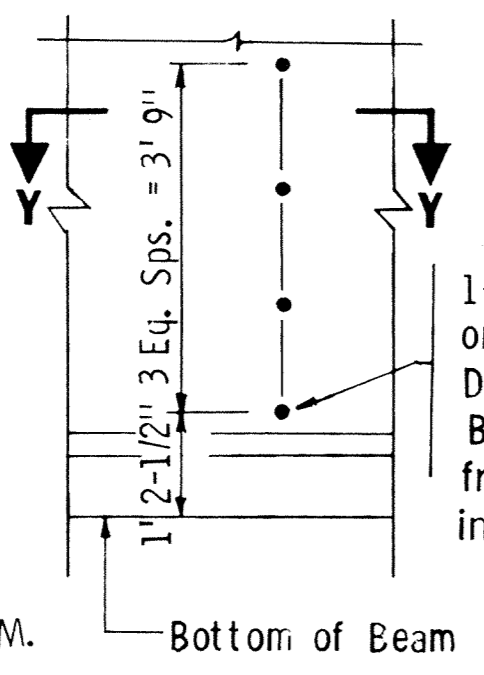


Cut strands flush with concrete. Paint ends with an approved gray epoxy except as noted.

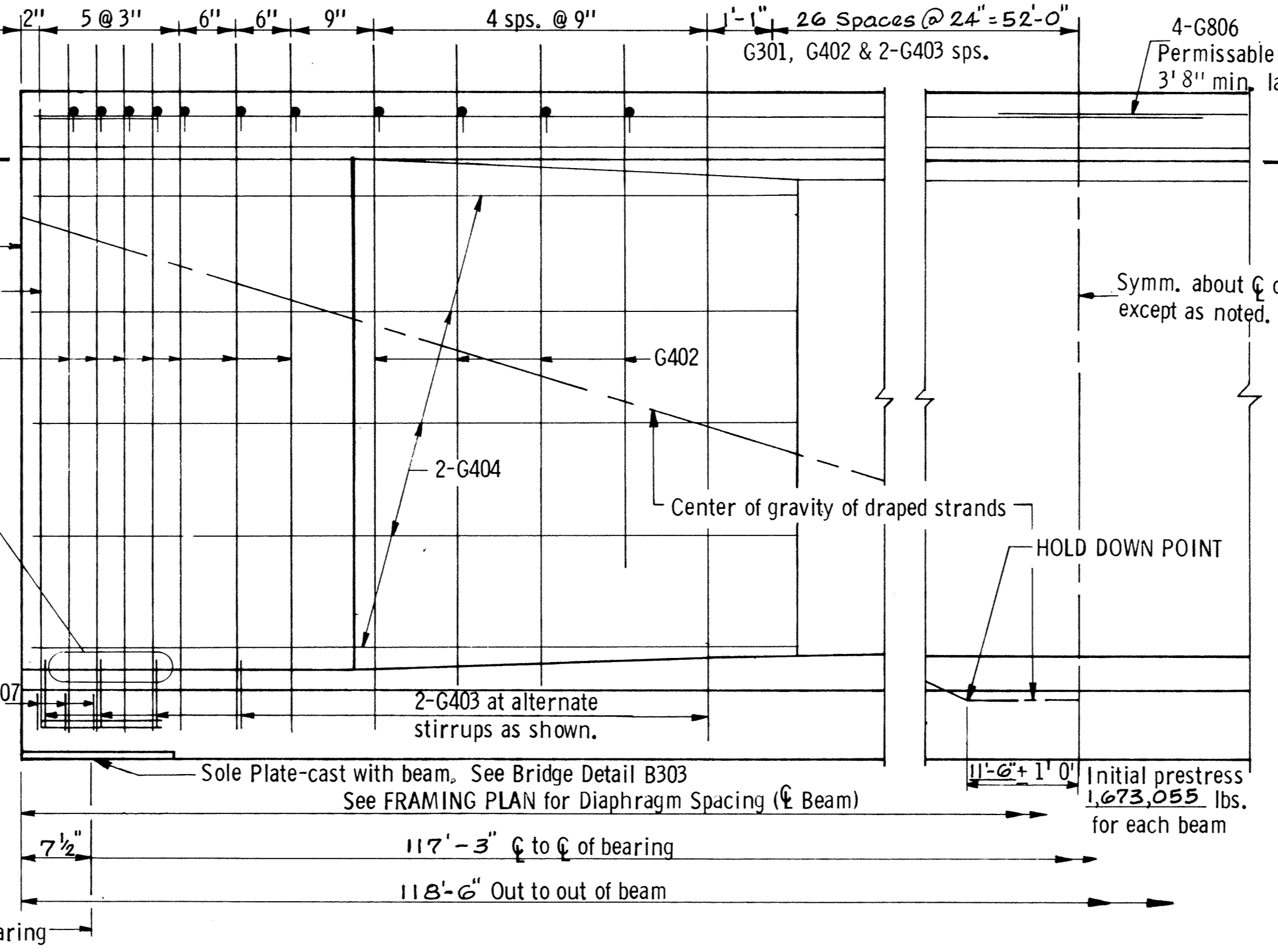
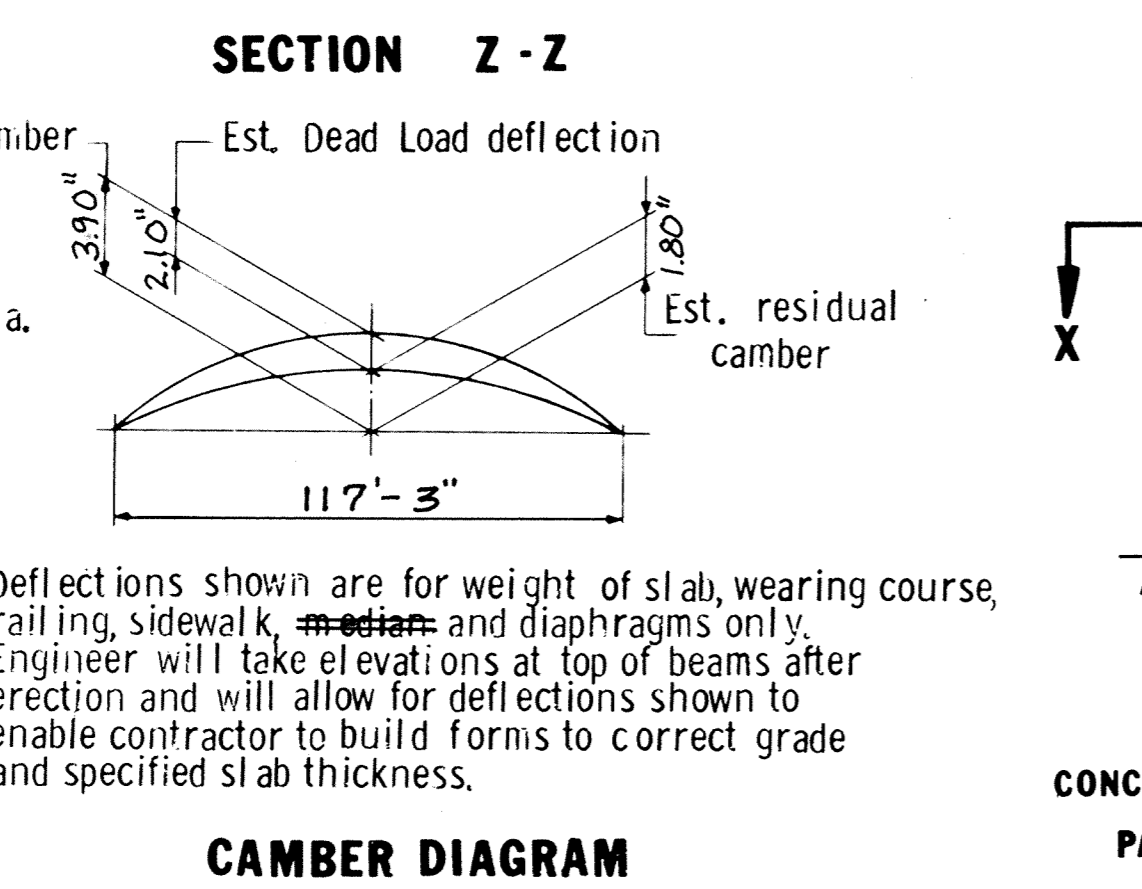
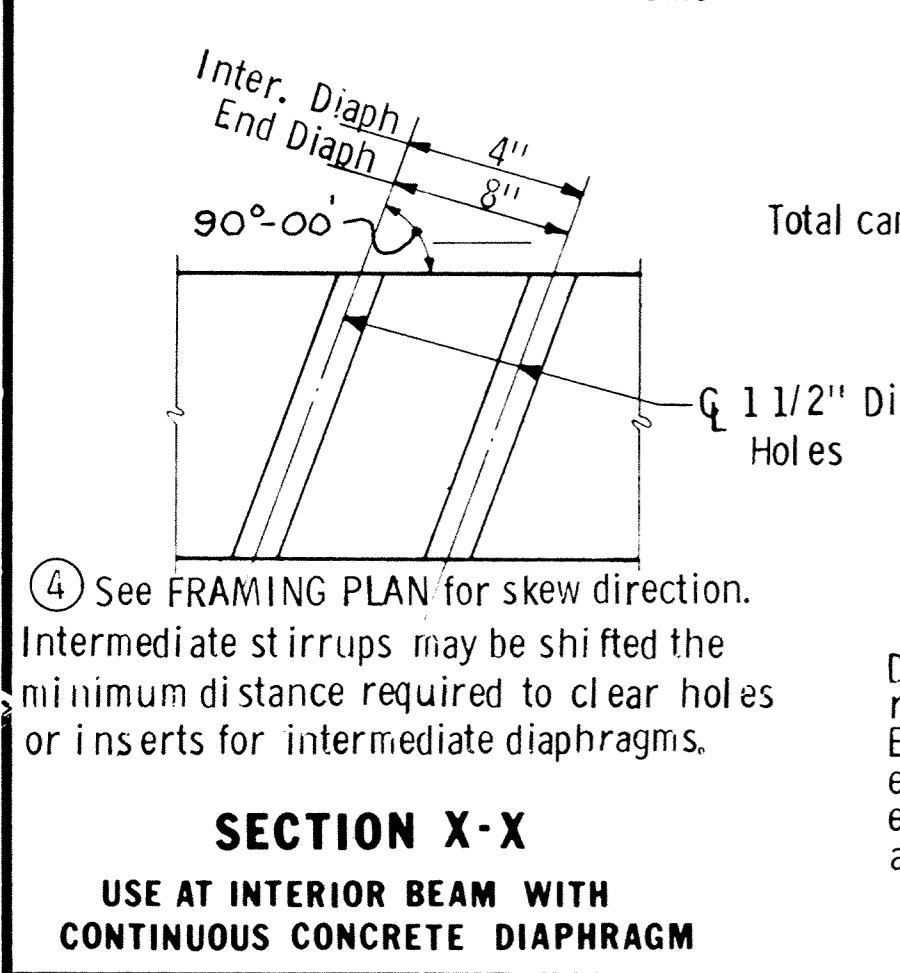
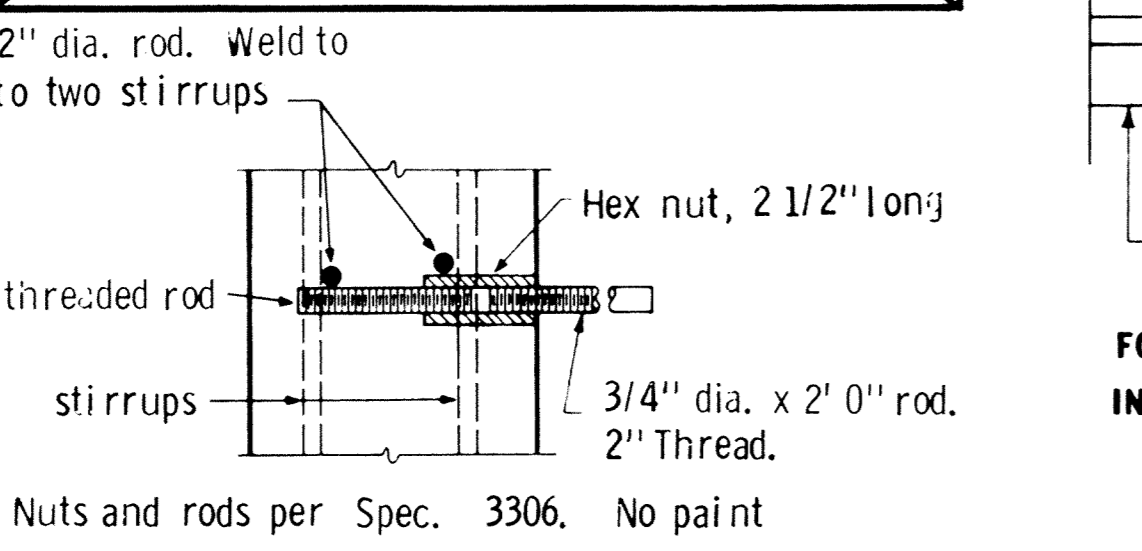
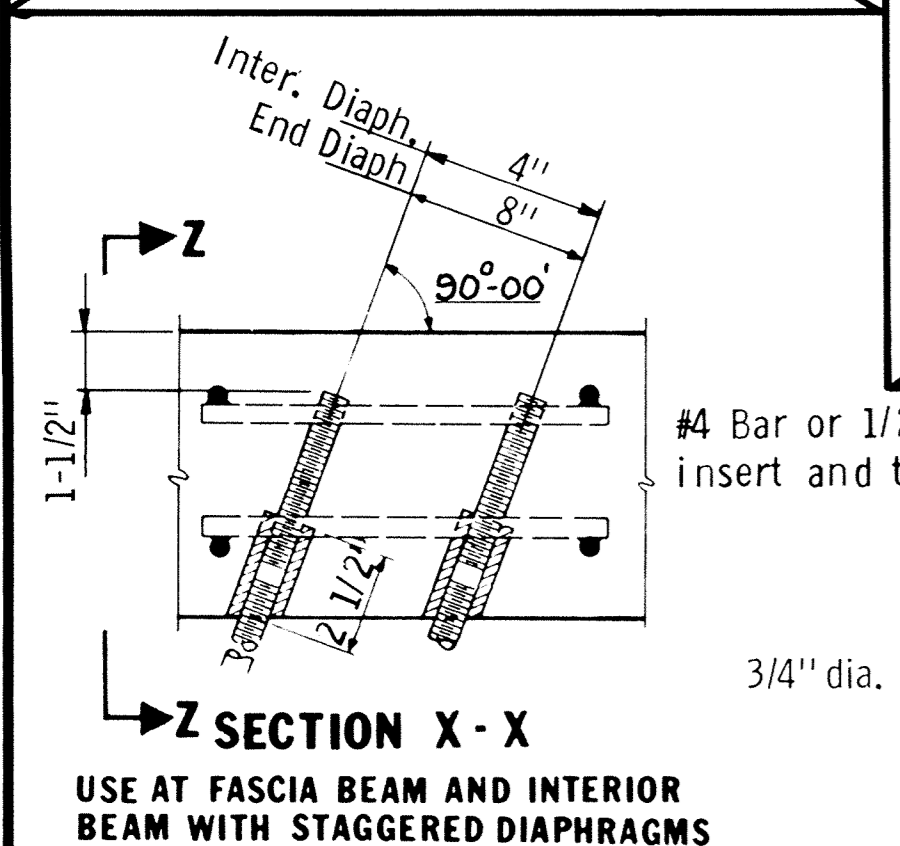
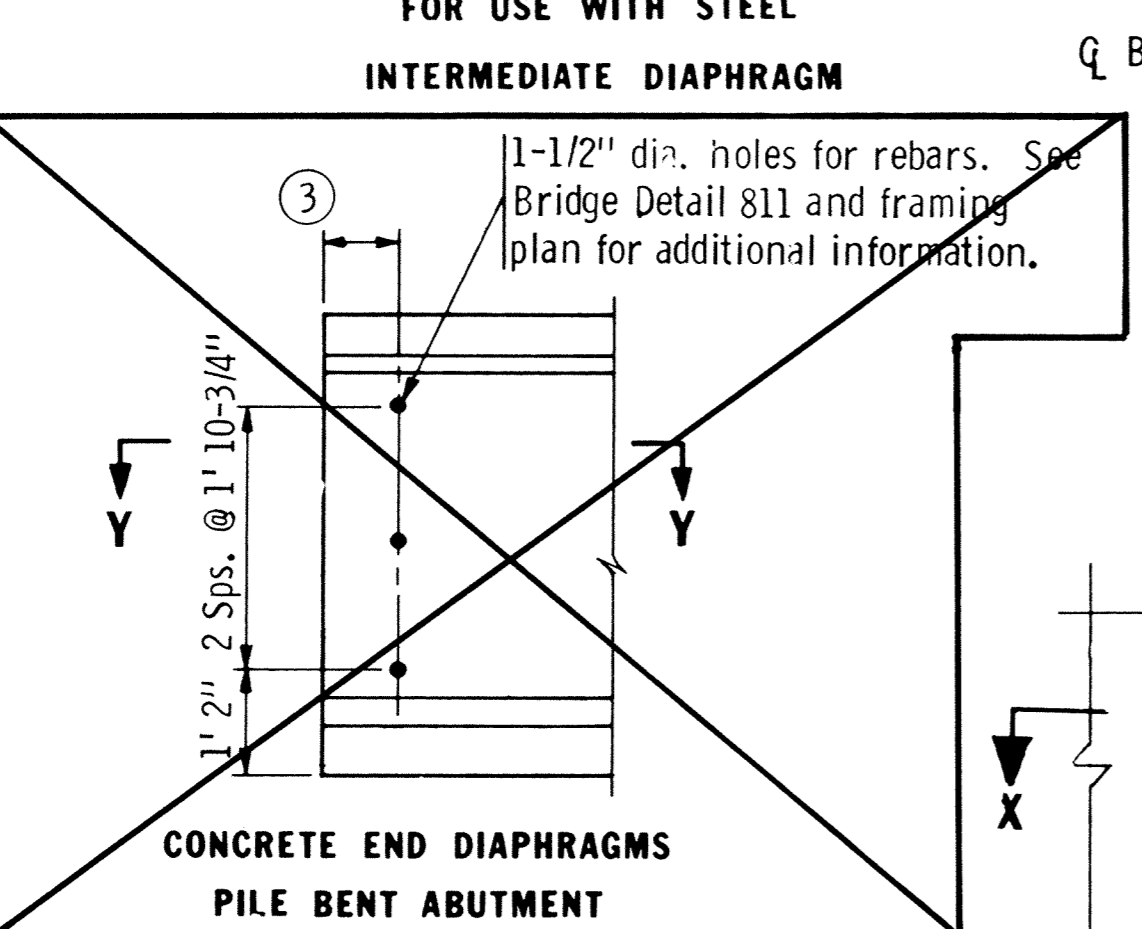
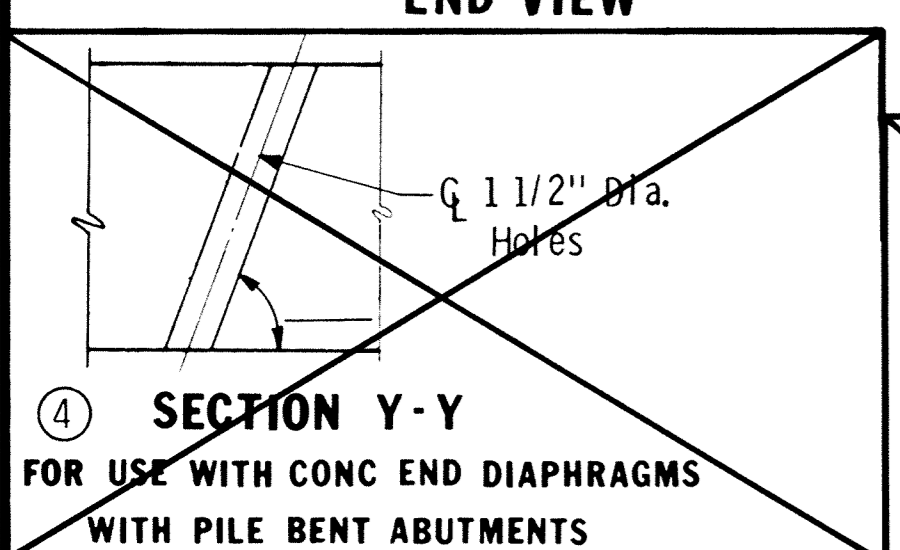
SECTION Y-Y
USE AT INTERIOR BEAM WITH STEEL DIAPHRAGMS

All reinforcement 1-1/4" clear unless otherwise noted.



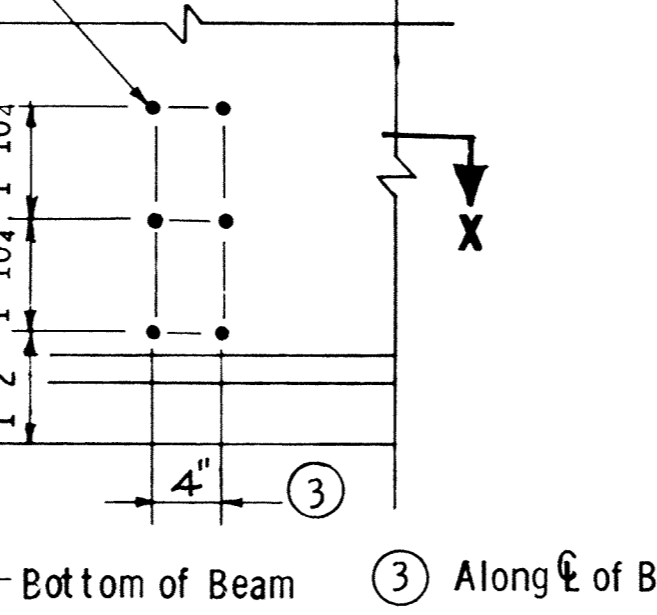
Cut G402 Bars as necessary to Clr. Sole Plt. anchorage

1-1/4" dia. holes for 7/8" bolts or Anchorage for 7/8" Diameter Bolts. See Bridge Detail B405, B406 and framing plan for additional information.

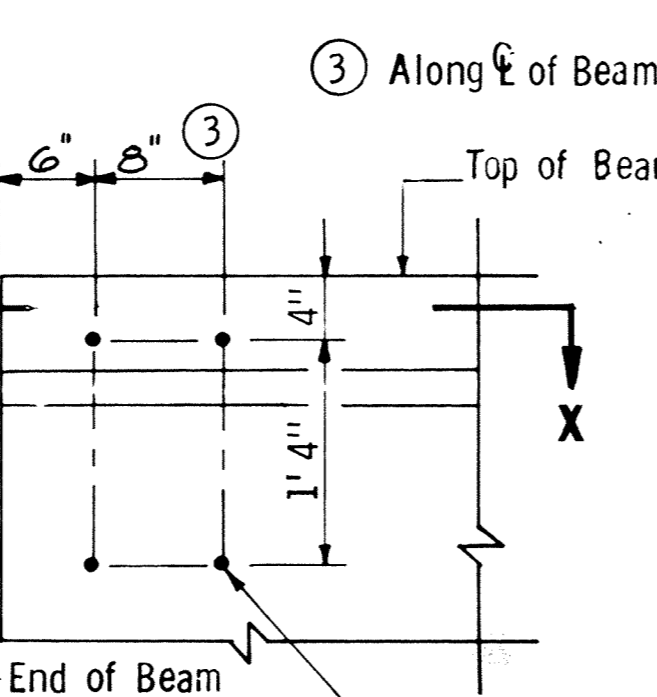


HALF ELEVATION
NOTE: DIAPHRAGM CONNECTION HOLES NOT SHOWN
SEE DETAILS BELOW

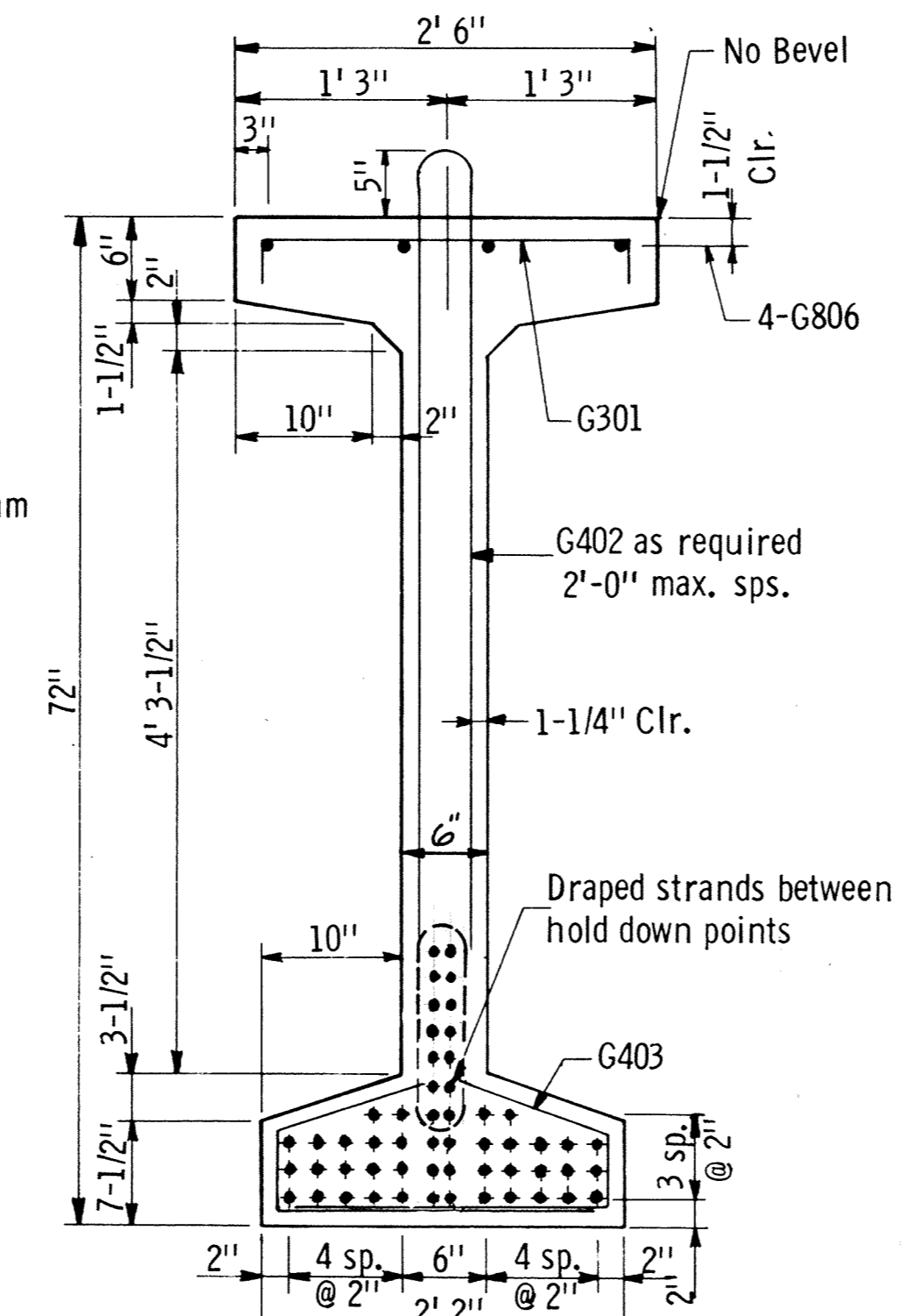
1-1/2" dia. holes for rebar or anchorage for 3/4" Diameter Threaded Rods. See Bridge Detail B806 and framing plan for additional information.



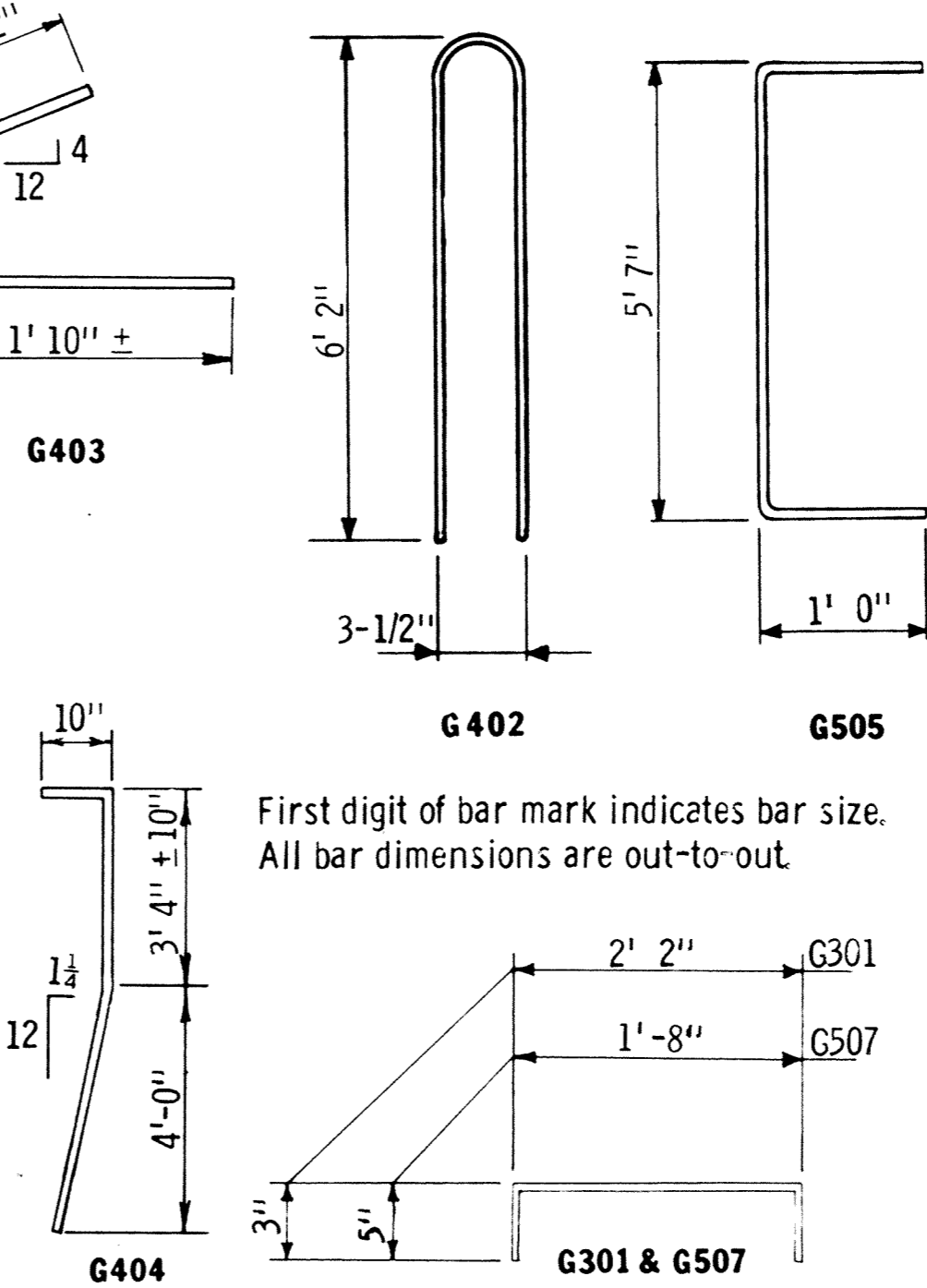
FOR USE WITH CONCRETE INTERMEDIATE DIAPHRAGM



CONCRETE END DIAPHRAGMS PARAPET ABUTMENT



SECTION AT Q BEAM
BEAMS: BEAM 1 - BEAM 3
S.P. 204-113-03



Y DISTANCES (IN INCHES)			
	NQ.	Q SPAN	END
Straight strands	40	4.40	
Draped strands	14	14.00	64.00
Total strands	54	6.89	

Y = distance of Center of Gravity of strands from bottom of beam. All strands spaced 2" c-c, horizontally and vertically except as noted.
All strands 1/2" dia. 270 kip, ultimate strength.
A tolerance of ± 2" will be permitted in this dimension.

GENERAL NOTES:

- Tops of beams shall be rough floated and broomed transversely for bond.
- Provide handling hooks or devices as required by Contractor. Hooks or devices provided will be subject to approval of Engineer and shall be installed within 4' 0" of the end of beam.
- A modified strand pattern or a bundled strand pattern which does not change center of gravity of strands may be submitted to the Engineer for approval.
- A post-tensioned beam may be used as an alternate for the pretensioned design shown. Mn/DOT will have plans available for the post-tensioned alternate.
- Each beam shall be marked, showing bridge number, casting date, and individual identification letters and numbers. Markings shall be made on the face of the beam, near the end, so located that they will be exposed after the end diaphragms have been cast. Fascia beams shall be marked on an inside face. All markings shall be stencilled and be clearly legible. For location of beams, see framing plan.
- All material and work shown or noted on this sheet shall be included in unit price bid for prestressed concrete beams. See Spec. 2405.
- See framing plan for beam ends marked "X".
- Approximate weight of beam 51.6 tons.

MINIMUM CONCRETE STRENGTH - P.S.I.		
	① f'ci	② f'c
Required min. Concrete Strength	6100	7,000

- ① Minimum concrete strength at time of prestress transfer.
- ② Minimum concrete strength when curing can be discontinued and beam transported and installed.

RECORD PLAN OCT. 1973
Revised: March 1, 1983 Approved: February 22, 1980

DES: MnDOT	DR: MnDOT/GLA	APPROVED:	Bridge No. 71517
CHK: RLD	CHK: RLD	7-2-92	

Sheet No. 9 of 24 Sheets