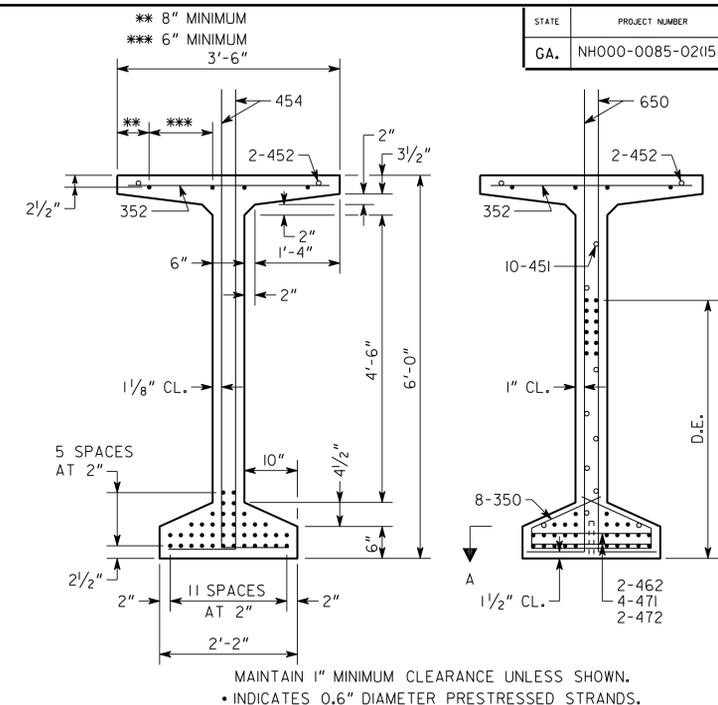
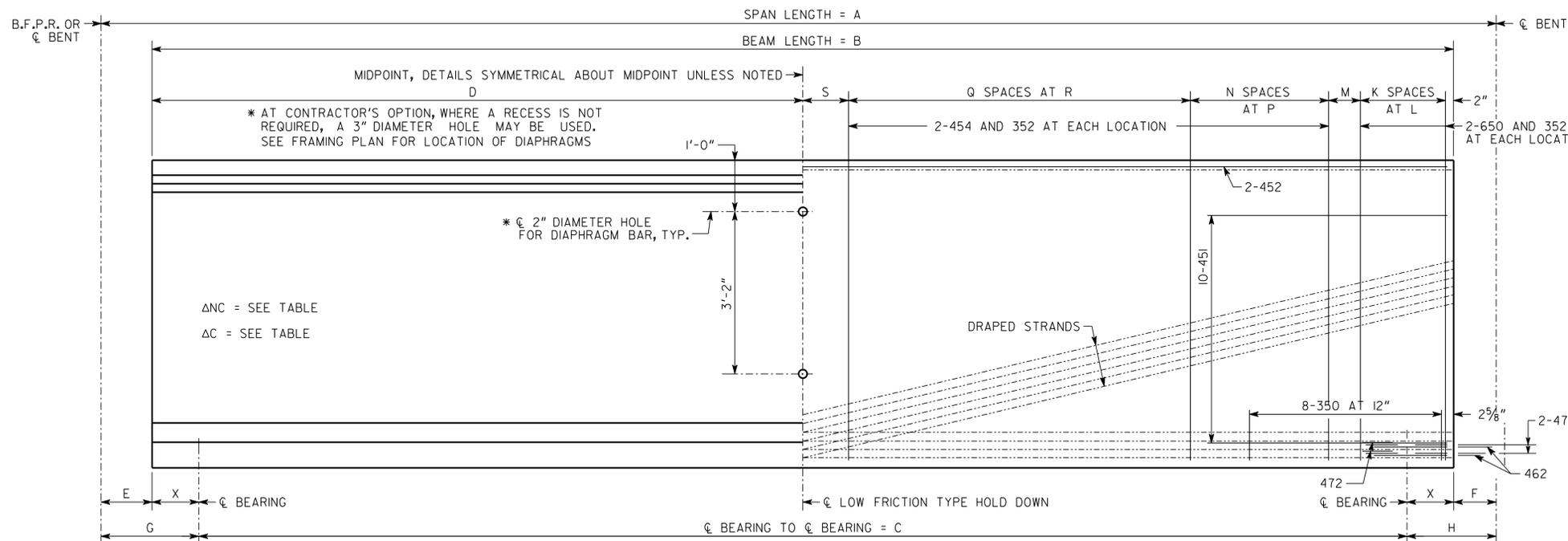


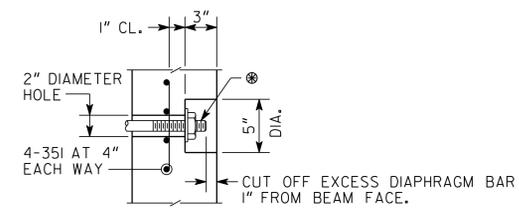
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	NH000-0085-02(153)	385	623



**NOTES**

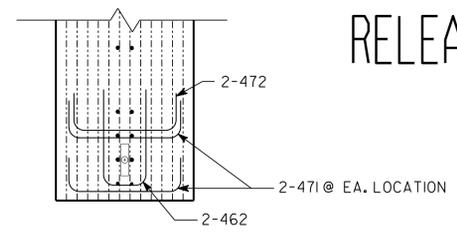
- BEAMS SHALL BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES AND SHALL BE PICKED UP WITHIN 9'-0" FROM THEIR ENDS. DISREGARDING THIS REQUIREMENT COULD LEAD TO COLLAPSE OF THE BEAM. PICK-UPS SHALL BE EMBEDDED TO WITHIN 4" OF THE BOTTOM OF THE BEAM. DETAILS OF PICK-UPS SHALL BE INCLUDED IN THE SHOP DRAWINGS.
- CHAMFER EDGES OF BEAMS 1/2", 3/4" OR 1".
- HORIZONTAL DIMENSIONS ARE IN PLACE DIMENSIONS. THE BEAM LENGTH INCLUDES THE 1/8" EPOXY MORTAR AT EACH END. SHOP DRAWINGS SHALL ADJUST HORIZONTAL DIMENSIONS FOR GRADE AND FABRICATION EFFECTS SUCH AS SHRINKAGE AND ELASTIC SHORTENING.
- AT  $\phi$  BEARING, FORM A 1 1/2" DIAMETER X 7" DEEP HOLE AT THE FIXED ENDS AND A 6" X 1 1/2" X 7" DEEP SLOT AT THE EXPANSION ENDS FOR A 1 1/4" DIAMETER SMOOTH DOWEL. SEE PLAN AND ELEVATION SHEET FOR LOCATION OF FIXED AND EXPANSION ENDS.
- TOPS OF BEAMS SHALL BE ROUGH FLOATED AT APPROXIMATELY THE TIME OF INITIAL SET. ENTIRE TOP SHALL BE SCRUBBED TRANSVERSELY WITH A COARSE BRUSH TO REMOVE ALL LAITANCE AND TO PRODUCE A ROUGHENED SURFACE FOR BONDING TO THE SLAB. ROUGHENED SURFACE SHALL HAVE AN AMPLITUDE OF APPROXIMATELY 1/4". CONCRETE FINS OR PROJECTIONS SHALL BE REMOVED TO PRODUCE A VERTICAL FACE AT THE EDGE OF THE BEAM.
- NON-COMPOSITE DEAD LOAD DEFLECTION ( $\Delta_{NC}$ ) AT THE MIDPOINT IS DUE TO THE WEIGHT OF THE SLAB AND COPING.
- COMPOSITE DEAD LOAD DEFLECTION ( $\Delta_C$ ) AT THE MIDPOINT IS DUE TO THE WEIGHT OF BARRIER.
- STRANDS SHALL MEET ALL REQUIREMENTS OF ASTM A 416 GRADE 270.
- PRESTRESSING DATA IS AS FOLLOWS:
  - SEE BEAM TABULATION SHEET FOR NUMBER OF STRAIGHT AND DRAPED STRANDS. INCLUDE 4 (FOUR) STRANDS AT TOP OF THE BEAMS FOR TOTAL NUMBER OF STRANDS. PRETENSION ALL STRANDS TO 43,943 LBS EACH. ALL STRANDS ARE 0.6" DIAMETER LOW-RELAXATION ( $\epsilon = 0.217$  SQ IN).
  - ALL PRETENSIONED STRANDS SHALL BE RELEASED AFTER THE CONCRETE HAS REACHED A MINIMUM STRENGTH OF ( $f'_c$ ) - SEE BEAM TABULATION SHEET.
  - SEE BEAM TABULATION SHEET FOR THE TOTAL JACKING FORCE OF PRETENSIONING PER BEAM.
  - SEE BEAM TABULATION SHEET FOR THE NET PRESTRESSING FORCE OF THE STRANDS AFTER LOSSES PER BEAM.
  - SEE BEAM TABULATION SHEET FOR MINIMUM CONCRETE STRENGTH ( $f'_c$ ).
- SEE BEAM TABULATION SHEET FOR ALLOWABLE PSC BEAM TENSION.

**ELEVATION**

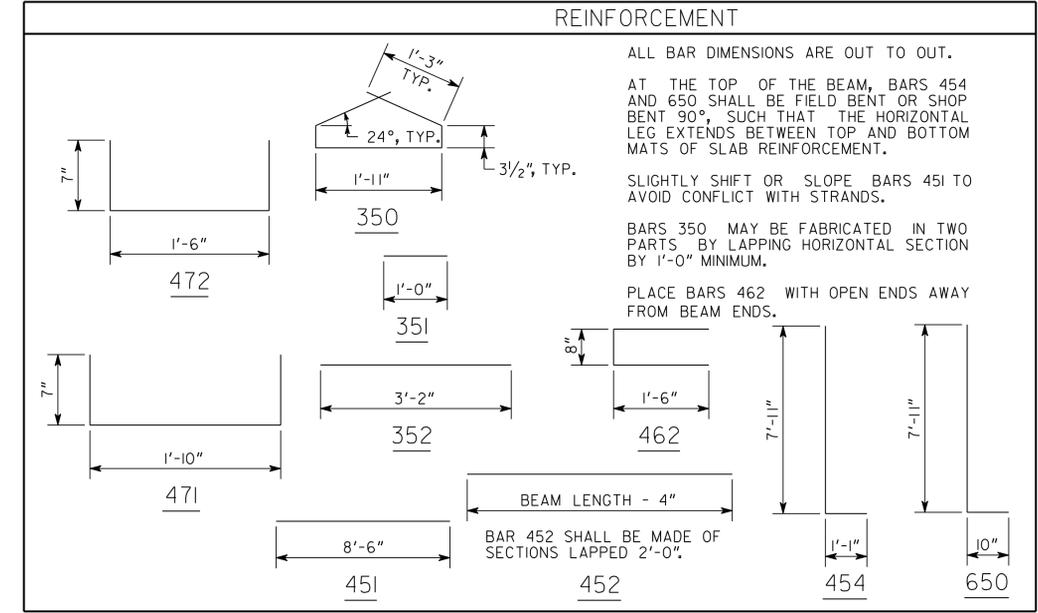


$\phi$  DIAPHRAGM BAR SHALL BE A 1" DIAMETER PLAIN BAR, THREADED 5" ON EACH END, WITH 1/4" X 3/2" DIAMETER WASHERS AND HEX NUTS (ASTM A 709 GRADE 36).  
 TIGHTEN DIAPHRAGM BAR AS PER SUB-SECTION 507.3.05.C OF THE GEORGIA DOT SPECIFICATIONS.  
 AFTER EXCESS DIAPHRAGM BAR HAS BEEN CUT OFF, PAINT DIAPHRAGM BAR, WASHER, AND NUT EXPOSED IN RECESS WITH SPECIAL PROTECTIVE COATING NO. 2 P AS PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS. AFTER PAINTING, FILL THE RECESS WITH AN APPROVED EPOXY GROUT.  
 GALVANIZING OF THE DIAPHRAGM BAR AS PER SUB-SECTION 865.2.01.B.12 OF THE GEORGIA DOT SPECIFICATIONS IS NOT REQUIRED.

**RECESS DETAIL FOR DIAPHRAGM BAR ENDS**



SECTION A-A



RELEASED FOR CONSTRUCTION  
 MARCH 15, 2012

BRIDGE NO. 4

		GEORGIA <b>DEPARTMENT OF TRANSPORTATION</b> ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES	
		BULB TEE, 72 IN PSC BEAM SR 400 SOUTHBOUND TO I-85 NORTHBOUND FLYOVER SR 400/I-85 CONNECTOR RAMPS FULTON COUNTY NH000-0085-02(153)	
SCALE: NO SCALE		MARCH 2012	
DESIGNED	BCB/GBL	CHECKED	MS/KAK
DRAWN	DB/BCB	DESIGN GROUP	APPROVED

DRAWING NO.	35.4 - 27
BRIDGE SHEET	27 OF 50

DATE	REVISIONS