

EMBEDDED PLATE "B-1" DETAILS  
FOR 72" MODIFIED BULB TEE  
(2 REQ'D PER GIRDER)

GIRDER	"A"	"B"	"C"	"D"
AG1	128'-8 1/4"	64'-4 1/8"	6"	5 5/8"
AG2	128'-9 1/8"	64'-4 3/16"	6"	6 1/16"
AG3	128'-10 1/8"	64'-5 1/16"	6"	6 3/16"
AG4	128'-11 1/8"	64'-5 9/16"	6"	7 1/16"
BG1	129'-0 1/4"	64'-6 1/8"	6"	7 5/8"
BG2	129'-0 3/4"	64'-6 3/8"	6"	7 7/8"
BG3	129'-1 1/8"	64'-6 11/16"	6"	8 3/16"
BG4	129'-2"	64'-7"	6"	8 1/2"
CG1	129'-0 7/8"	64'-6 7/16"	6"	7 15/16"
CG2	129'-1 1/4"	64'-6 5/8"	6"	8 1/8"
CG3	129'-1 5/8"	64'-6 13/16"	6"	8 5/16"
CG4	129'-2"	64'-7"	6"	8 1/2"
DG1	101'-1 3/8"	50'-6 11/16"	6"	8 3/16"
DG2	101'-1 1/2"	50'-6 3/4"	6"	8 1/4"
DG3	101'-1 5/8"	50'-6 13/16"	6"	8 5/16"
DG4	101'-1 3/4"	50'-6 7/8"	6"	8 3/8"

NOTES:

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW-RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL SHALL BE GRADE 60.

APPLY EPOXY PROTECTIVE COATING TO END OF GIRDER SURFACES INDICATED IN ELEVATION VIEW.

EMBEDDED PLATE "B-1" SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ANCHOR STUDS SHALL CONFORM TO AASHTO M169 GRADES 1010 THROUGH 1020 OR APPROVED EQUAL, AND SHALL MEET THE TYPE "B" REQUIREMENTS OF SUBSECTION 7.3 OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.

AT ENDS OF GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS OR END WALLS, PRESTRESSING STRANDS MAY EXTEND A MAXIMUM OF 2" BEYOND THE GIRDER ENDS. OTHERWISE, PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 7000 PSI FOR SPAN A, SPAN B AND SPAN C.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4700 PSI FOR SPAN D.

DEPENDING ON THE TYPE OF SYSTEM USED TO SUPPORT THE DECK SLAB FORMS, PRESET ANCHORS MAY BE NECESSARY IN THE PRESTRESSED CONCRETE GIRDER.

THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 4", SHALL BE RAKED TO A DEPTH OF 1/4".

A 2" x 2" CHAMFER IS ALLOWED AT THE INTERSECTION OF THE WEB AND THE BOTTOM FLANGE OF THE 63" AND 72" MODIFIED BULB TEES ONLY.

THE CONTRACTOR HAS THE OPTION TO PROVIDE, AT NO ADDITIONAL COST TO THE DEPARTMENT, 2 ADDITIONAL STRANDS AT THE TOP OF THE GIRDER TO FACILITATE TYING OF THE REINFORCING STEEL. THESE STRANDS SHALL BE PULLED TO A LOAD OF 4500 lbs.

FOR EMBEDDED CLIPS FOR PRESTRESSED CONCRETE GIRDERS, SEE SPECIAL PROVISIONS.

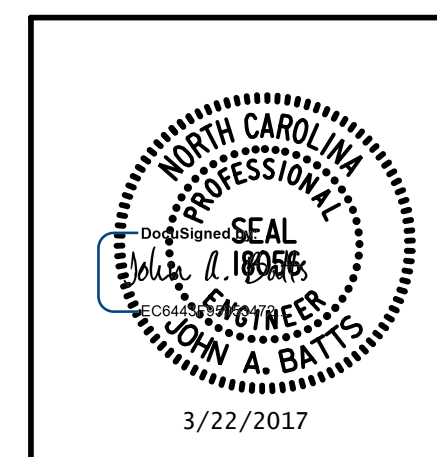
PROJECT NO. U-3109A  
ALAMANCE COUNTY  
 STATION: 146+61.35 -L-

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
 PRESTRESSED CONCRETE  
 GIRDER CONTINUOUS  
 FOR LIVE LOAD DETAILS  
 (NBL)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			S03-23
2			4			S03-53

PLANS PREPARED BY:

**SIMPSON ENGINEERS & ASSOCIATES**  
 5640 Dillard Drive  
 Suite 200  
 Cary, NC 27518  
 (919) 852-0468  
 (919) 852-0598 (Fax)  
 www.simpsonengr.com  
 LICENSURE NO. C-2521



3/22/2017

DRAWN BY: <u>T. BANKOVICH</u>	DATE: <u>9-15</u>
CHECKED BY: <u>J.A. BATTS</u>	DATE: <u>9-15</u>
DESIGN ENGINEER OF RECORD: <u>J.A. BATTS</u>	DATE: <u>9-15</u>