

**NOTES**

ALL STRUCTURAL STEEL, EXCLUDING FLANGES, SHALL BE AASHTO M270 GRADE 50W. FLANGE STEEL SHALL BE GRADE HPS 70W. ALL SPLICE PLATES SHALL BE AASHTO M270 GRADE 50W. FOR HIGH PERFORMANCE STEEL, SEE SPECIAL PROVISIONS.

STRUCTURAL STEEL SHALL BE PAINTED IN ACCORDANCE WITH SYSTEM 4 OF ARTICLE 442-7 OF THE STANDARD SPECIFICATIONS.

ALL DIMENSIONS SHOWN ARE HORIZONTAL OR VERTICAL, UNLESS OTHERWISE NOTED.

ALL FIELD CONNECTIONS TO BE 7/8" DIA. HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED.

BEARING STIFFENERS ARE TO BE PLACED NORMAL TO THE WEB OF THE GIRDER AND SHALL BE PLUMB.

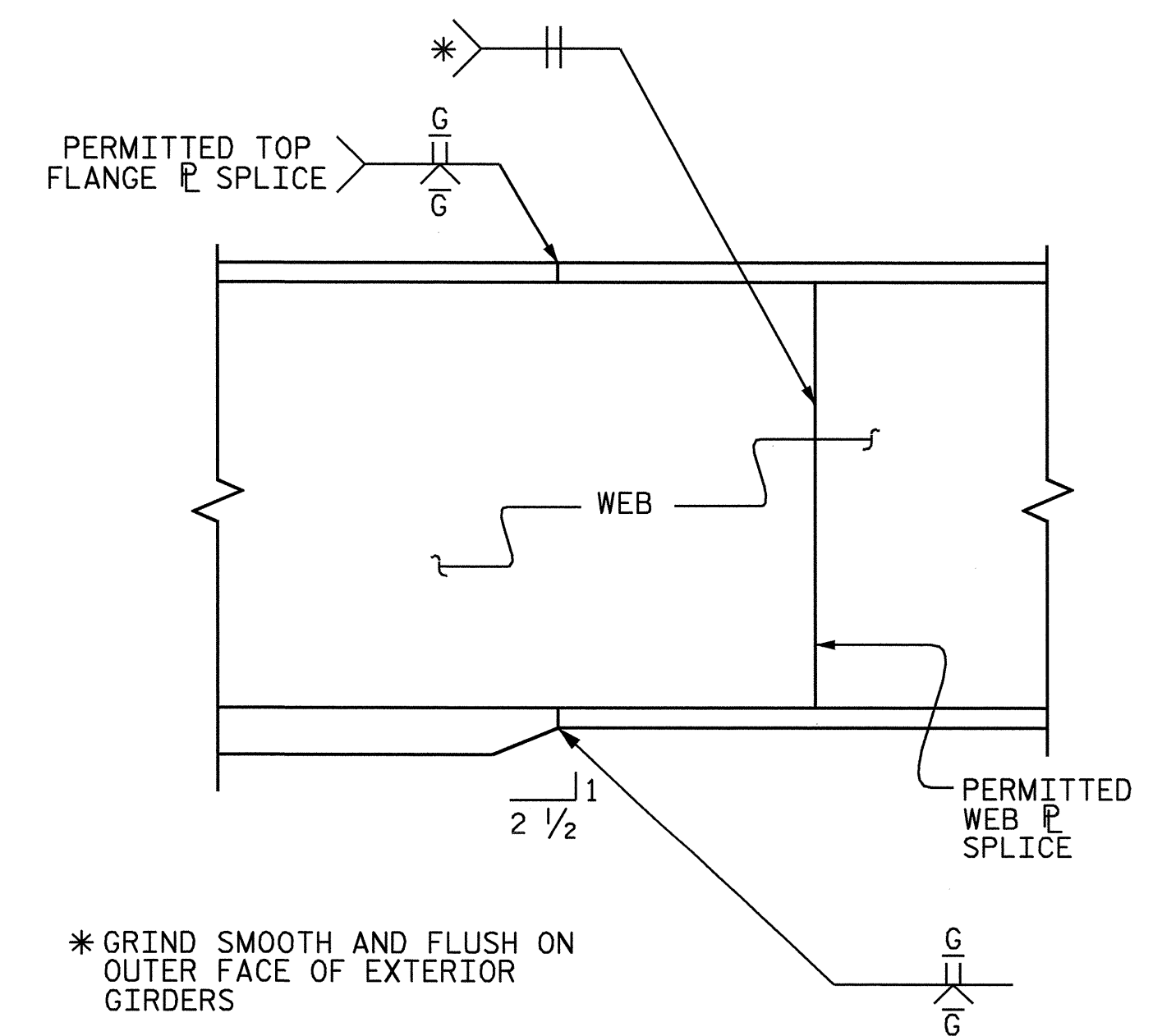
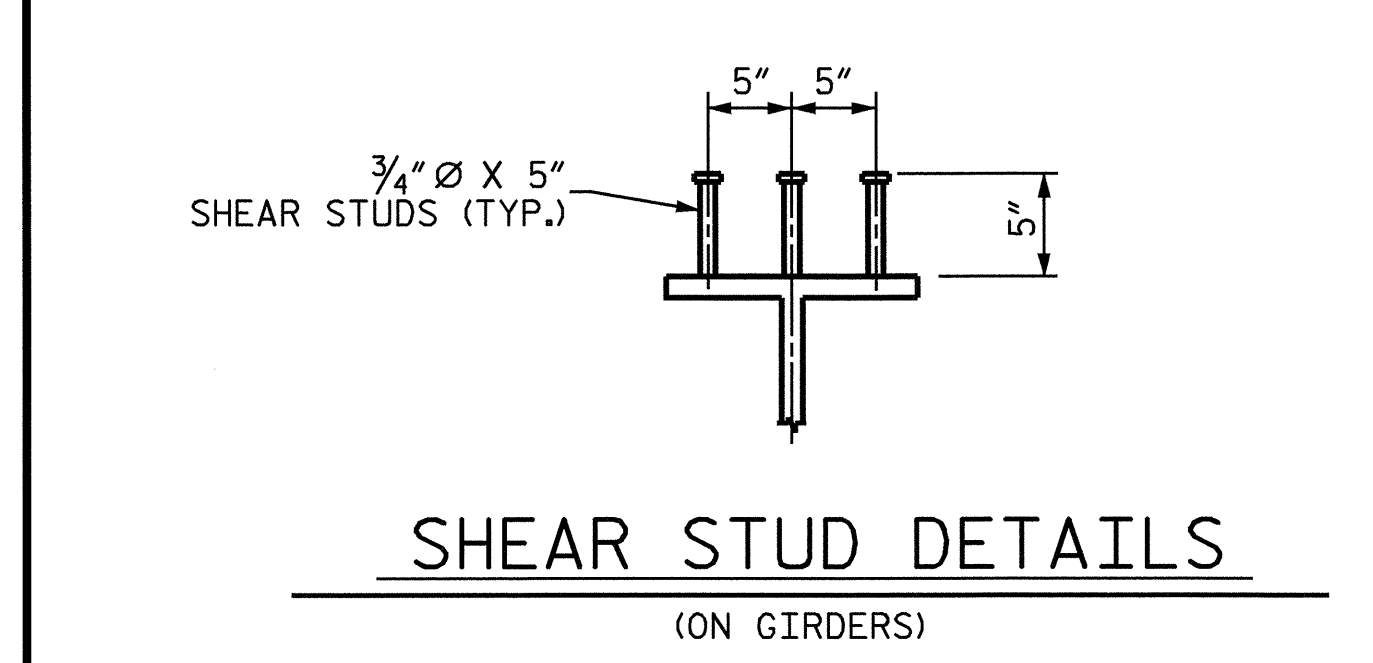
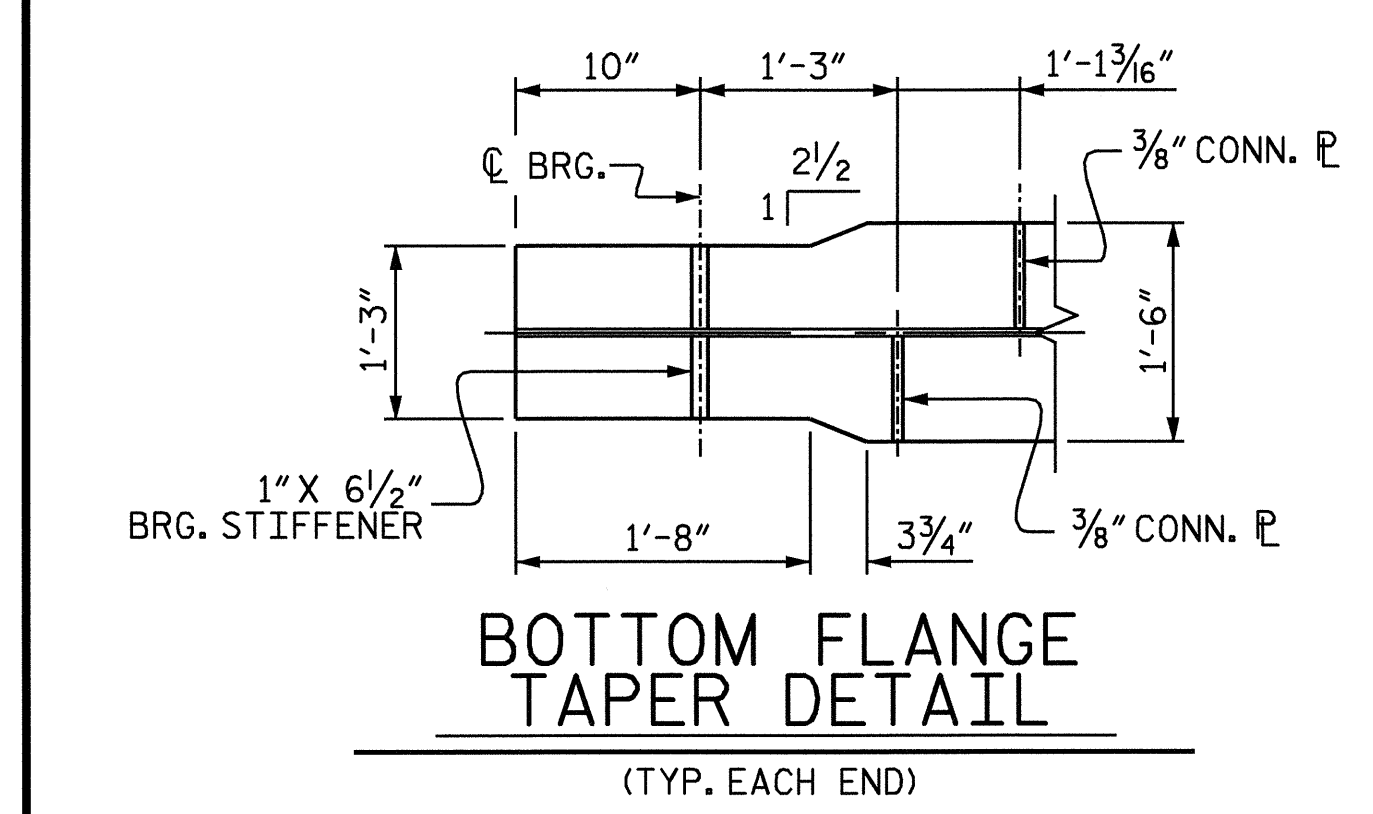
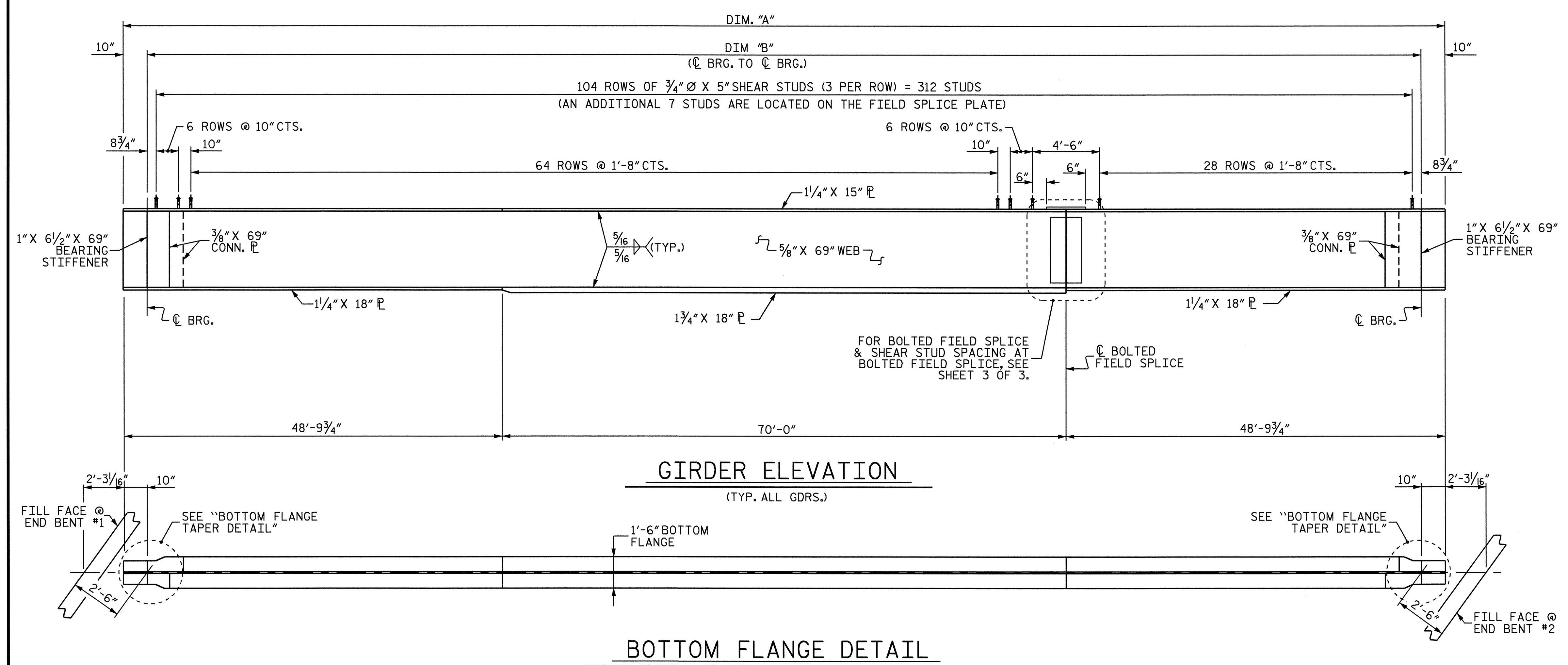
A CHARPY V-NOTCH TEST IS REQUIRED FOR WEB PLATES, BOTTOM FLANGE PLATES, BOTTOM FLANGE SPLICE PLATES AND WEB SPLICE PLATES (IF USED) FOR ALL GIRDERS AND IN ACCORDANCE WITH ARTICLE 1072-9 OF THE STANDARD SPECIFICATIONS.

SHOP SPLICES ARE PERMITTED TO LIMIT THE MAXIMUM REQUIRED FLANGE PIECE LENGTHS TO 60 FEET AND WEB PIECE LENGTHS TO 45 FEET. PERMITTED FLANGE AND WEB SHOP SPLICES SHALL NOT BE LOCATED WITHIN 15 FEET OF MAXIMUM DEAD LOAD DEFLECTION. KEEP 2 FEET MINIMUM BETWEEN WEB AND FLANGE SHOP SPLICES. KEEP 6" MINIMUM BETWEEN CONNECTOR PLATE OR TRANSVERSE STIFFENER WELDS AND WEB OR FLANGE SHOP SPLICES.

TENSION ON THE AASHTO M164 BOLTS SHALL BE CALIBRATED USING DIRECT TENSION INDICATOR WASHERS IN ACCORDANCE WITH ARTICLE 440-10 OF THE STANDARD SPECIFICATIONS.

STUDS ON GIRDERS MAY BE SHIFTED UP TO 1" IF NECESSARY TO CLEAR FLANGE SPLICE WELD.

END OF GIRDERS SHALL BE PLUMB.

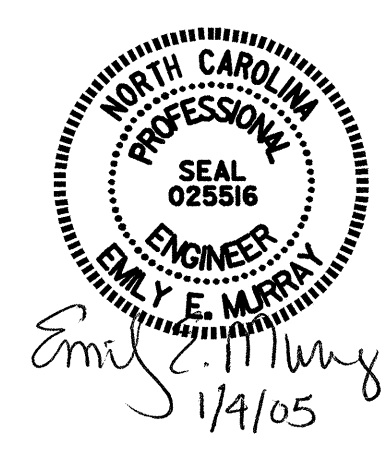


GIRDER	DIMENSION			
	A		B	
	HORIZ.	SLOPED	HORIZ.	SLOPED
1	167'-7 1/2"	167'-10 3/8"	165'-11 1/2"	166'-2 3/8"
2	167'-7 1/2"	167'-10 5/16"	165'-11 1/2"	166'-2 3/16"
3	167'-7 1/2"	167'-10 1/4"	165'-11 1/2"	166'-2 1/4"
4	167'-7 1/2"	167'-10 3/16"	165'-11 1/2"	166'-2 3/16"
5	167'-7 1/2"	167'-10 1/8"	165'-11 1/2"	166'-2 1/8"
6	167'-7 1/2"	167'-10 1/16"	165'-11 1/2"	166'-2 1/16"
7	167'-7 1/2"	167'-10"	165'-11 1/2"	166'-2"

PROJECT NO. B-3375  
WAKE COUNTY  
 STATION: 43+81.84 -L-

SHEET 1 OF 3

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
**STRUCTURAL STEEL  
 DETAILS**



REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-12
1			3			TOTAL SHEETS
2			4			37

DRAWN BY: M. M. PARSONS DATE: 9/30/04  
 CHECKED BY: W. D. CRUTCHER DATE: 10/04