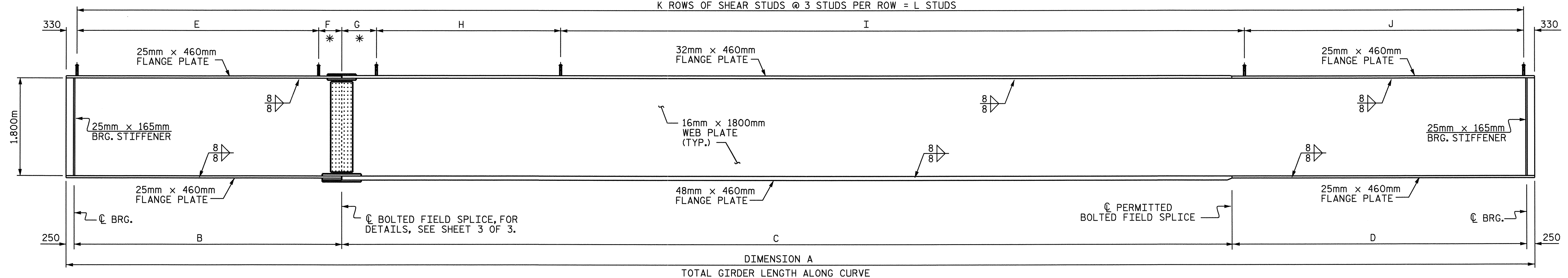
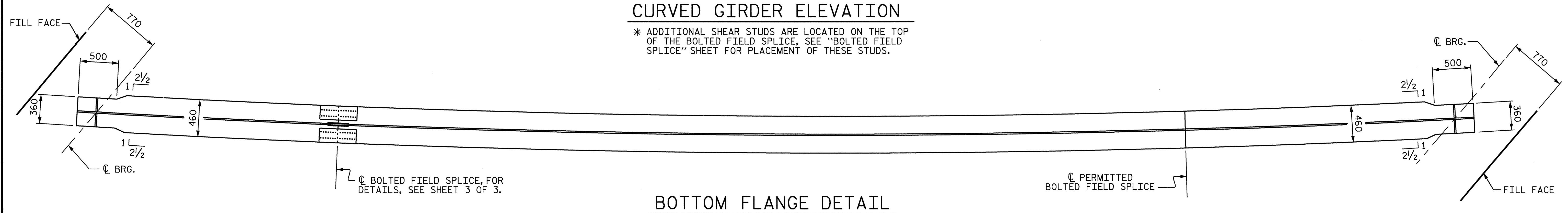


K ROWS OF SHEAR STUDS @ 3 STUDS PER ROW = L STUDS

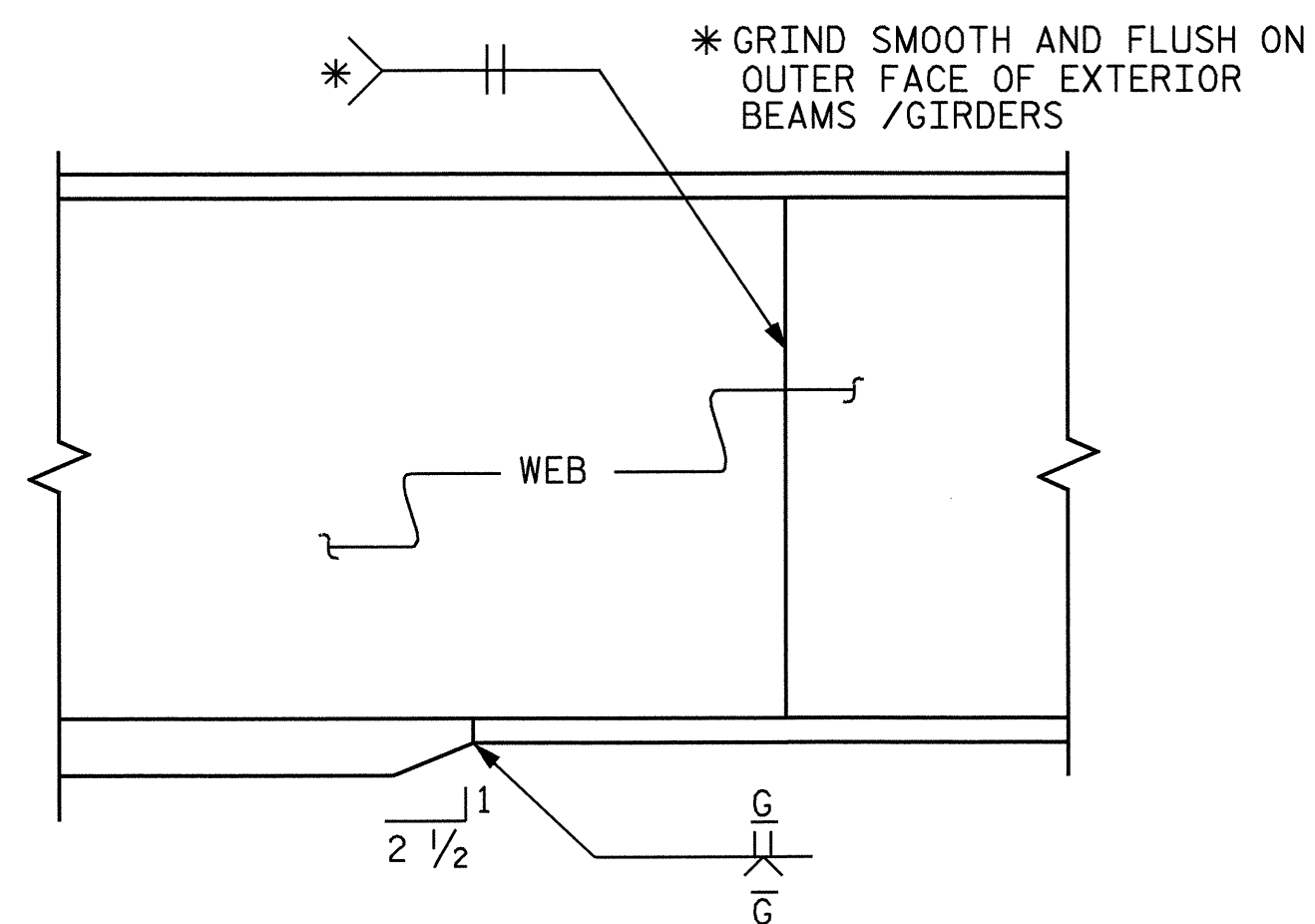


**CURVED GIRDER ELEVATION**

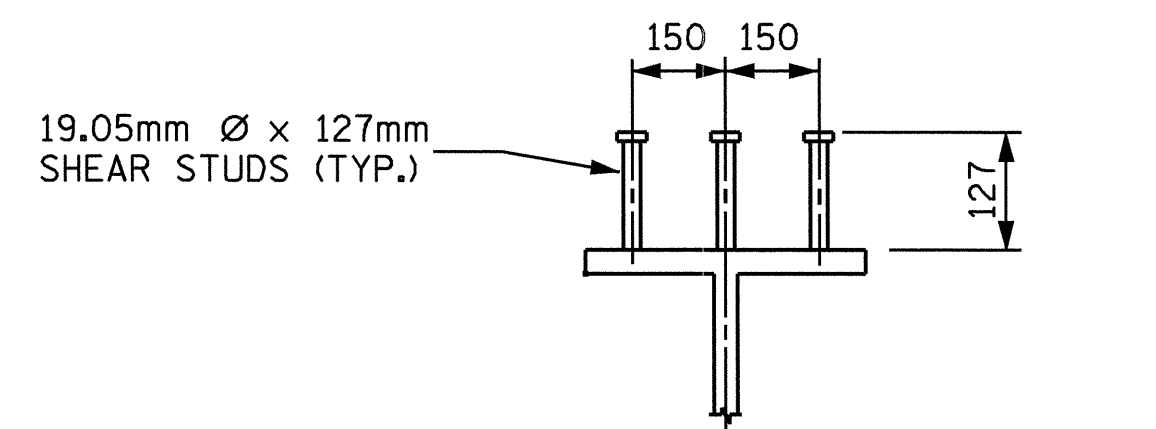
\* ADDITIONAL SHEAR STUDS ARE LOCATED ON THE TOP OF THE BOLTED FIELD SPLICE, SEE "BOLTED FIELD SPLICE" SHEET FOR PLACEMENT OF THESE STUDS.



**BOTTOM FLANGE DETAIL**



**TYPICAL FLANGE AND WEB BUTT JOINT**



**SHEAR STUD DETAILS**

CURVED GIRDER DIMENSIONS					
	RADIUS	A	B	C	D
GIRDER NO. 1	392.660m	44.073m	8.099m	26.300m	9.174m
GIRDER NO. 2	395.630m	43.842m	8.050m	26.300m	8.992m
GIRDER NO. 3	398.600m	43.621m	8.411m	26.300m	8.410m
GIRDER NO. 4	401.570m	43.407m	7.903m	26.300m	8.704m
GIRDER NO. 5	404.540m	43.201m	7.930m	26.300m	8.471m

**TABLE OF STUD SPACING**

	E	F	G	H	I	J	K	L
GIRDER NO. 1	18 SPA. @ 410mm = 7.380m	638mm	675mm	52 SPA. @ 490mm = 25.480m	---	21 SPA. @ 440mm = 9.240m	93	279
GIRDER NO. 2	19 SPA. @ 380mm = 7.220m	751mm	646mm	16 SPA. @ 380mm = 6.080m	47 SPA. @ 425mm = 19.975m	23 SPA. @ 370mm = 8.510m	107	321
GIRDER NO. 3	20 SPA. @ 380mm = 7.600m	730mm	631mm	8 SPA. @ 380mm = 3.040m	60 SPA. @ 420mm = 25.200m	16 SPA. @ 360mm = 5.760m	106	318
GIRDER NO. 4	21 SPA. @ 340mm = 7.140m	684mm	1.023m	16 SPA. @ 340mm = 5.440m	47 SPA. @ 430mm = 20.210m	25 SPA. @ 330mm = 8.250m	111	333
GIRDER NO. 5	17 SPA. @ 420mm = 7.140m	709mm	652mm	20 SPA. @ 410mm = 8.200m	34 SPA. @ 500mm = 17.000m	26 SPA. @ 340mm = 8.840m	99	297

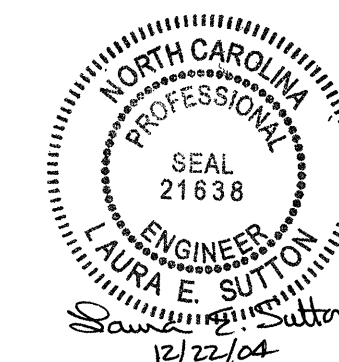
PROJECT NO. R-0977A  
CHEROKEE COUNTY  
 STATION: 18+31.299-LC1B2-

SHEET 1 OF 3

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
 GIRDER DETAILS

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

TOTAL SHEETS: 230



DRAWN BY: A.S. CALLAWAY DATE: 4/23/04  
 CHECKED BY: W.D. CRUTCHER DATE: 9/20/04