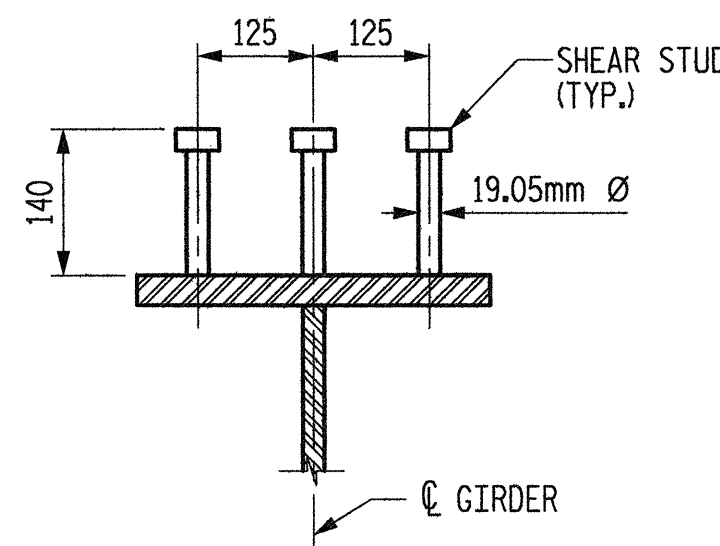


PLAN OF TOP FLANGE



ON PLATE GIRDERS
SHEAR CONNECTORS

STUDS ON GIRDERS MAY BE SHIFTED SLIGHTLY, IF NECESSARY, TO CLEAR FLANGE SPLICE WELD.

* SHEAR CONNECTOR SPACING

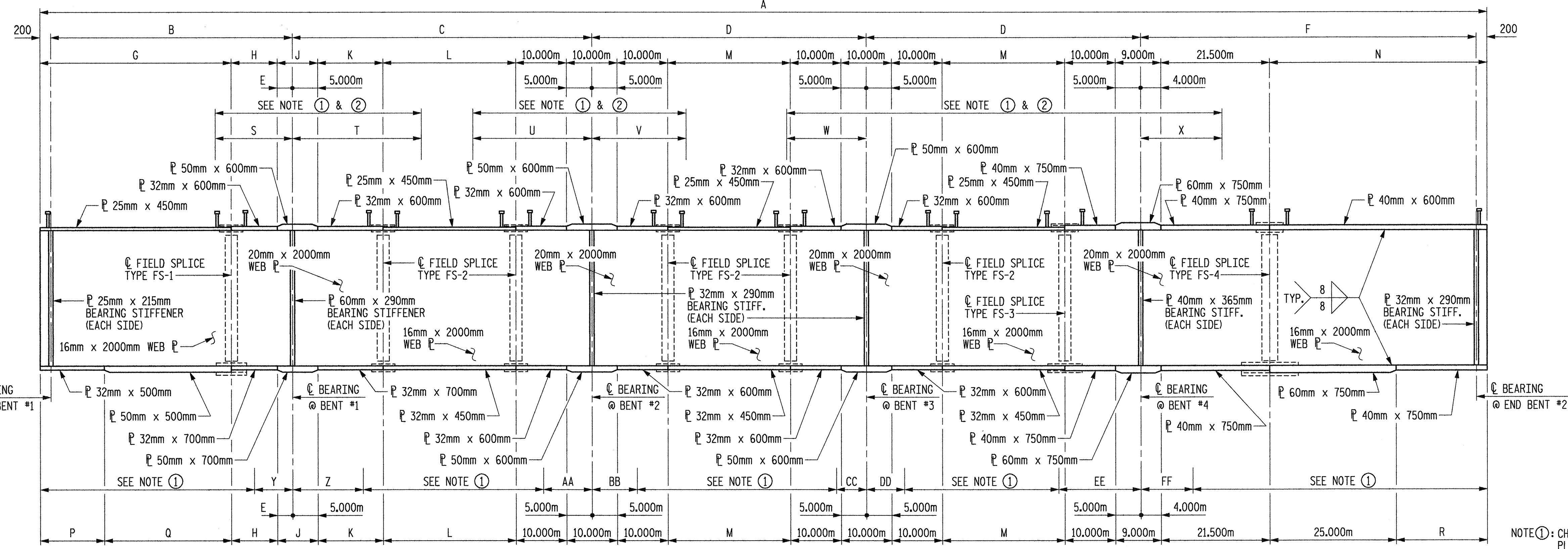
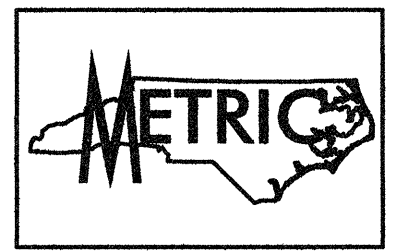
- (A) 104 SPACES @ 340mm MAX. FOR GIRDER #1
101 SPACES @ 350mm MAX. FOR GIRDER #2
111 SPACES @ 350mm MAX. FOR GIRDER #3
114 SPACES @ 340mm MAX. FOR GIRDER #4
- (B) 85 SPACES @ 340mm MAX. FOR GIRDER #1
96 SPACES @ 300mm MAX. FOR GIRDER #2
105 SPACES @ 300mm MAX. FOR GIRDER #3
93 SPACES @ 340mm MAX. FOR GIRDER #4
- (C) 74 SPACES @ 340mm MAX. FOR GIRDER #1
83 SPACES @ 300mm MAX. FOR GIRDER #2
72 SPACES @ 260mm MAX. FOR GIRDER #3
80 SPACES @ 230mm MAX. FOR GIRDER #4
- (D) 85 SPACES @ 340mm MAX. FOR GIRDERS #1 AND #4
96 SPACES @ 300mm MAX. FOR GIRDERS #2 AND #3
- (E) 68 SPACES @ 340mm MAX. FOR GIRDERS #1 AND #4
77 SPACES @ 300mm MAX. FOR GIRDERS #2 AND #3
- (F) 103 SPACES @ 280mm MAX. FOR GIRDERS #1 AND #4
120 SPACES @ 240mm MAX. FOR GIRDERS #2 AND #3
- (G) 82 SPACES @ 280mm MAX. FOR GIRDERS #1 AND #4
96 SPACES @ 240mm MAX. FOR GIRDERS #2 AND #3
- (H) 94 SPACES @ 420mm MAX. FOR GIRDERS #1 THRU #4
- (J) 96 SPACES @ 420mm MAX. FOR GIRDERS #1 THRU #4

TOTAL NUMBER OF STUDS	
GIRDER NO.	NUMBER
1	2520
2	2724
3	2748
4	2592

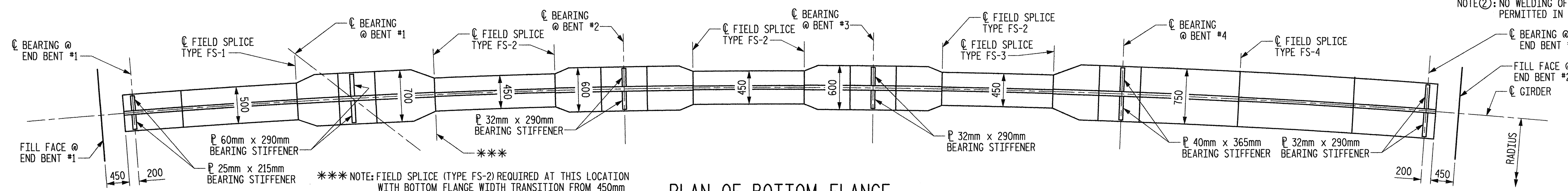
NOTE: TOTAL NUMBER OF STUDS INCLUDES THE STUDS ON THE TOP OF FLANGE SPLICE PLATES.

NOTE ①: CHARPY V-NOTCH TESTS ARE REQUIRED FOR ALL TOP OR BOTTOM FLANGE PLATES WHICH FALL WITHIN THESE LIMITS. ALL WEB PLATES, ALL SPLICE PLATES AND DIAPHRAGMS, IF A PERMITTED SHOP FLANGE SPLICE IS NOT USED, CHARPY V-NOTCH TESTS WILL BE REQUIRED FOR THE ENTIRE FLANGE PLATE.

NOTE ②: NO WELDING OF FORMS OR FALSEWORK TO THE TOP FLANGE WILL BE PERMITTED IN THIS REGION.



GIRDER ELEVATION



PLAN OF BOTTOM FLANGE

*** NOTE: FIELD SPLICE (TYPE FS-2) REQUIRED AT THIS LOCATION WITH BOTTOM FLANGE WIDTH TRANSITION FROM 450mm TO 700mm. ALL OTHER TYPE FS-2 SPLICES HAVE A BOTTOM FLANGE WIDTH TRANSITION FROM 450mm TO 600mm.

* GIRDER DIMENSIONS

GIRDER NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	RADIUS
1	282.106m	47.812m	59.120m	54.193m	3.000m	66.388m	35.912m	9.100m	8.000m	12.900m	26.220m	24.193m	41.088m	12.912m	23.000m	16.088m	15.240m	25.460m	21.490m	18.600m	15.700m	16.090m	7.530m	13.900m	9.580m	8.920m	5.930m	7.510m	15.170m	10.250m	1856.600m
2	281.557m	51.919m	54.804m	54.088m	3.000m	66.258m	35.819m	13.300m	8.000m	8.700m	26.104m	24.088m	40.958m	12.819m	23.000m	15.958m	14.360m	24.540m	21.560m	15.920m	14.700m	15.460m	8.410m	12.480m	9.460m	8.260m	6.720m	8.090m	15.080m	10.330m	1853.000m
3	281.009m	56.037m	50.478m	53.983m	5.000m	66.128m	39.537m	11.700m	10.000m	10.800m	19.678m	23.983m	40.828m	12.537m	27.000m	15.828m	15.670m	***	***	14.890m	14.660m	15.460m	10.090m	10.350m	9.150m	7.690m	7.010m	8.370m	14.880m	10.320m	1849.400m
4	280.460m	60.166m	46.140m	53.878m	5.000m	65.998m	39.466m	15.900m	10.000m	6.600m	19.540m	23.878m	40.698m	12.466m	27.000m	15.698m	17.410m	***	***	14.340m	15.530m	16.070m	11.600m	11.540m	8.820m	7.010m	6.900m	8.630m	14.500m	10.160m	1845.800m

* GIRDER DIMENSIONS AND SHEAR STUD SPACING ARE ALONG GIRDER CENTERLINE.

*** THE TOP FLANGE OF GIRDERS #3 AND #4 ARE IN TENSION FOR THE ENTIRETY OF SPAN "B".

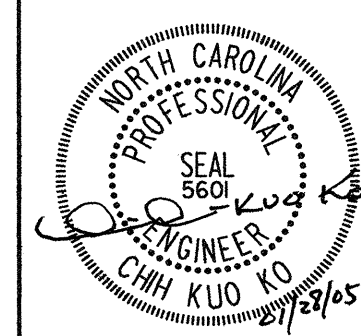
PROJECT NO. R-252AA
WAKE-JOHNSTON COUNTY
STATION: 28+31.359 -11Y1-

SHEET 1 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
STRUCTURAL STEEL DETAILS

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



Plans prepared by:
KO & ASSOCIATES, P.C.
Consulting Engineers
1011 SCHUBB DR. SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

DRAWN BY: B.E. LANNING DATE: JAN. 2005
CHECKED BY: J.C. KO / A.K. ORR DATE: JAN. 2005

PLOT: 01/27/2005 03:08:11 PM Ko & Associates, P.C.
 FILE NAME: r1v252aa_ssd.tbl_03.dgn