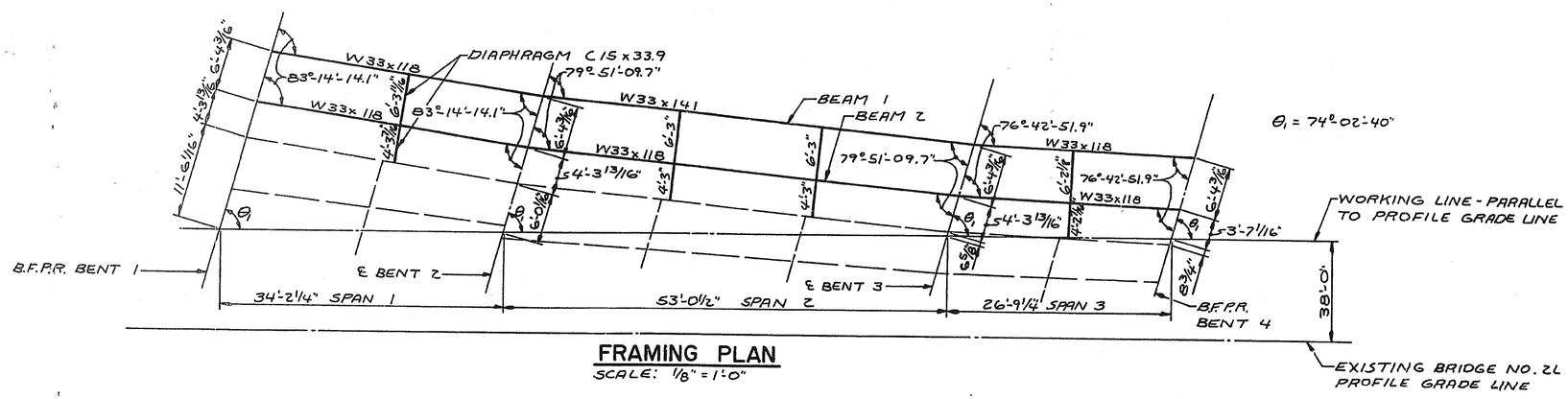
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
G.A.	CM-285-1(361)	141	234

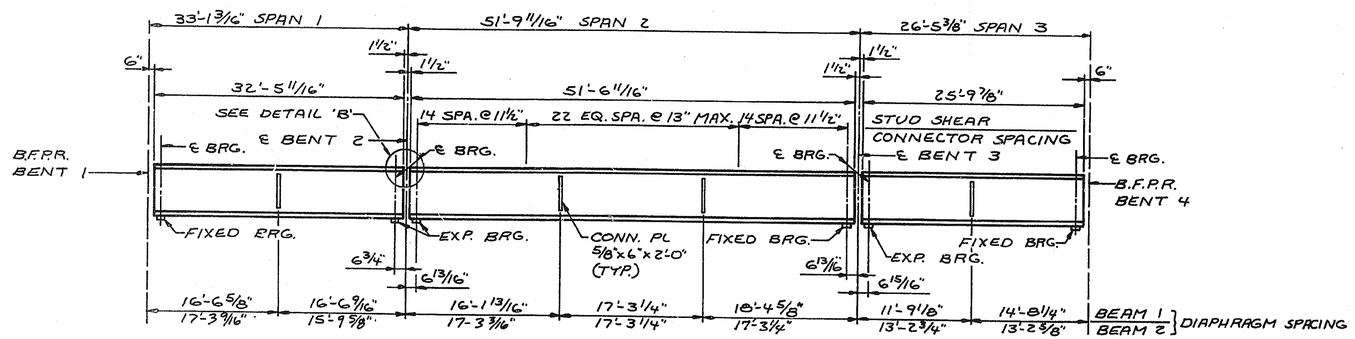
NOTES

1. ALL ROLLED BEAMS ARE MAIN LOAD CARRYING MEMBERS SUBJECT TO TENSILE STRESS AND SHALL MEET THE CHARPY V-NOTCH TEST REQUIREMENTS AS SPECIFIED BY SECTION 851 OF THE STANDARD SPECIFICATIONS.
2. FOR SHEAR STUD CONNECTOR DETAIL, BEARING AND DIAPHRAGM DETAILS SEE SHEET 7
3. ALL STRUCTURAL STEEL TO BE A-36 STEEL.
4. DIAPHRAGMS ARE PERPENDICULAR TO BEAMS.
5. CLIP TOP FLANGE OF BEAMS AT BENTS 2 & 3 TO CLEAR DECK JOINT BY 1".
6. DIAPHRAGM LENGTHS SHOWN ARE ℄ TO ℄ OF BEAMS.



FRAMING PLAN

SCALE: 1/8" = 1'-0"

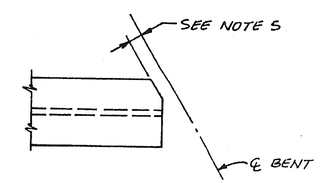


BEAM ELEVATION

NO SCALE

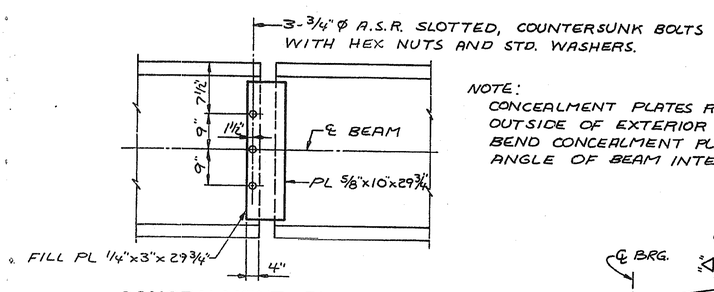
DEAD LOAD DEFLECTIONS (INCHES)

BEAM			1/4 PT.	1/2 PT.	3/4 PT.
SPAN 1	BEAM 1	BEAM ONLY	0.011	0.015	0.011
		TOTAL	0.122	0.171	0.122
	BEAM 2	BEAM ONLY	0.011	0.015	0.011
		TOTAL	0.084	0.117	0.084
SPAN 2	BEAM 1	BEAM ONLY	0.068	0.095	0.068
		TOTAL	0.509	0.714	0.509
	BEAM 2	BEAM ONLY	0.072	0.102	0.072
		TOTAL	0.522	0.731	0.522
SPAN 3	BEAM 1	BEAM ONLY	0.006	0.008	0.006
		TOTAL	0.064	0.089	0.064
	BEAM 2	BEAM ONLY	0.006	0.008	0.006
		TOTAL	0.044	0.061	0.044



TYPICAL FLANGE CLIP DETAIL

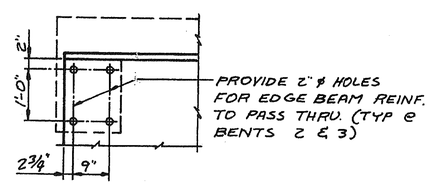
NO SCALE



NOTE:
CONCEALMENT PLATES REQUIRED ON OUTSIDE OF EXTERIOR BEAMS ONLY BEND CONCEALMENT PLATES TO FIT ANGLE OF BEAM INTERSECTION.

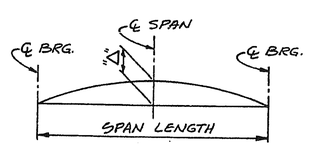
CONCEALMENT PLATE DETAIL

NO SCALE



DETAIL B

NO SCALE



CAMBER DIAGRAM

CAMBER SHOWN INCLUDES TOTAL DEAD LOAD ADJUSTED TO MATCH EXISTING SLAB.

BEAM CAMBER

BEAM		"Δ"
SPAN 1	1	11/16"
	2	5/8"
SPAN 2	1	1 3/16"
	2	1 1/4"
SPAN 3	1	1/16"
	2	1/16"

NO.	DATE	REVISION	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PLANS PREPARED BY
OWEN AYRES & ASSOCIATES INC
CONSULTING ENGINEERS
GAINESVILLE, GEORGIA

BRIDGE NO. 2L
WIDENING SBL I-285 OVER M9045 (COLLIER DRIVE)
BEAM DETAILS
FULTON-COBB CO
SCALE: AS SHOWN
I-FI-285-1(361)

DESIGNED BY D.G.S. | DESIGN CHECKED J.L.F.
DRAWN BY G.L.D. | PLANS CHECKED G.R.B.
DATE 3-81 | SHEET 6 OF 11