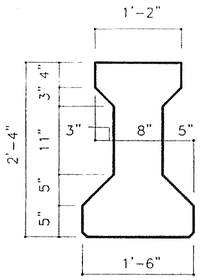
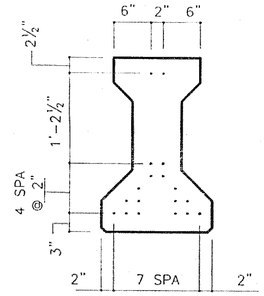


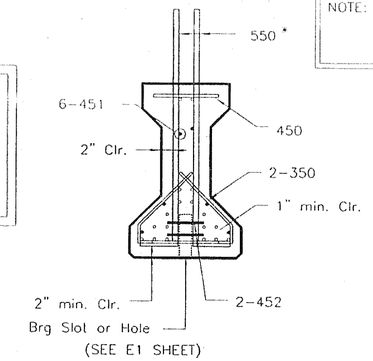
BEAM DIMNs



STRANDS @ ENDS

• = 18 – ½" ø SPECIAL Lo.Lox. STRANDS (AREA = 0.167 IN²) @ 33,818# EA

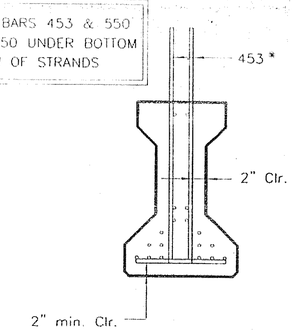
NO DRAPES



REBAR @ ENDS

∘ – STRAND
• – REBAR
* CONTRACTOR TO FIELD BEND

NOTE: TIE BARS 453 & 550 & 350 UNDER BOTTOM ROW OF STRANDS



REBAR @ ℄

∘ – STRAND
• – REBAR
* CONTRACTOR TO FIELD BEND

2-26-07

Approved in general. Details not checked. This approval shall not relieve the Contractor of any responsibility for conformity with the contract Plans and Specifications.

Paul V. Liles, Jr.
Bridge Engineer
By: EJC

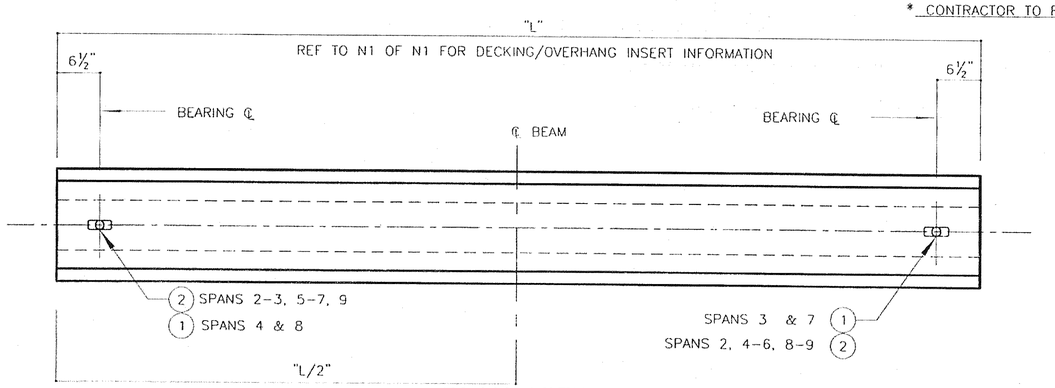
DIMENSION CONTROL

SPANS	"IPL"	"L"	"L/2"
SPANS 2-8	39'-4"	39'-4½"	19'-8¼"

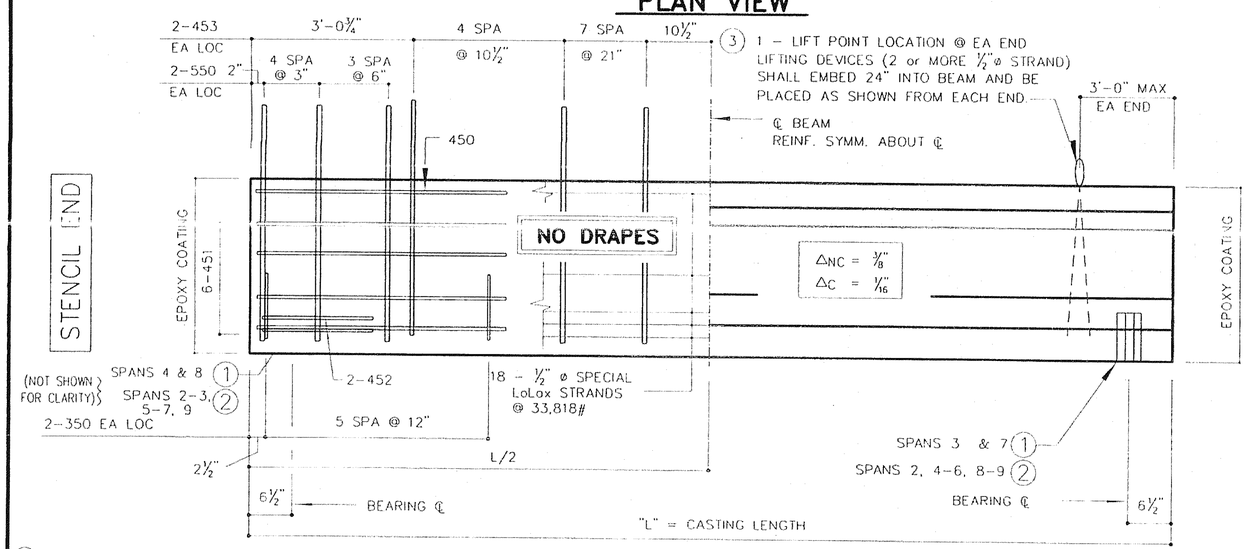
CASTING LENGTH "L" = "IPL" + BM SHORT'g + ROTn – EPOXY = "IPL" + ½"
EXAMPLE (BM 2-13.3) 39'-4" + ½" + ¼" – ¼" = 39'-4½"

MATERIALS – PER BEAM			QTY RQD
CONCRETE	5,000 psi @ RELEASE	6,500 psi @ 28-DAY	3.4± CY
REINF'G	SEE CHART	GRADE 60	433 #'s
PRESTRESSING STEEL	½" ø SPECIAL Lo.Lox. Gr 270	APPLIED PRESTRESS 33,818#/STRAND	18
PRESTRESSING SLACK STEEL	NA –	NA --	NA

INSERTS – PER BEAM		QTY RQD
① BEARING HOLE	2" ø x 7" DEEP HOLE (SEE PLAN VIEW)	1/0
② BEARING SLOT	2" x 6" x 7" DEEP SLOT (SEE PLAN VIEW)	1/2
③ LIFTING LOOPS	2 STRAND ½"ø LIFT LOOP	2
④ METAL DECK CLIPS	SEE N1 SHEET	
⑤ 45° O/H BRACKETS	SEE N1 SHEET	
⑥ SAFETY LINE EMBEDS	SEE N1 SHEET	
⑦ DIAPHRAGM HOLE	2"ø SCH 40 PVC PIPE	NA
⑧ DIAPHRAGM POCKET	5"ø POCKET w/ 2"ø HOLE (EXT./INT.)	NA
⑨ HOLD DOWNS	NA	NA



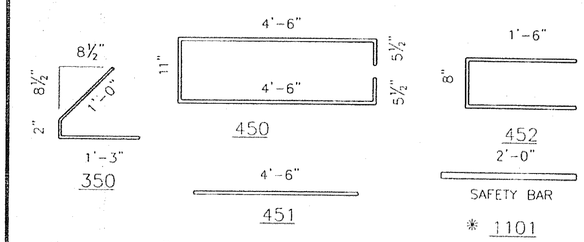
PLAN VIEW

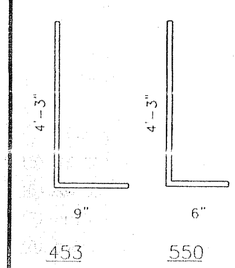


ELEVATION VIEW – ALONG ℄ GIRDER

NOTE: ALL DIMNs ARE CASTING LENGTHS

Ⓐ ALL DIMENSIONS ARE CASTING LENGTHS.
Ⓑ FIRST PAIR OF STIRRUPS PARALLEL TO BEAM END, TRANSITION NEXT 2 PAIR TO VERTICAL POSITION.
Ⓒ @ ℄ BEARING, FORM A 2"ø x 7" DEEP HOLE OR A 2" x 6" x 7" DEEP SLOT AT THE BEAM ENDS.
Ⓓ BAR 452 MAY BE USED PLACED INSIDE 1st PAIR OF STIRRUPS.





* SUPPLIED BY CONTRACTOR

REINFORCING REQD PER BEAM

FIRST DIGIT IS THE BAR SIZE

MARK	No.REQD	LENGTH	WEIGHT
350	24	2'-5"	22 #
450	2	10'-10"	14 #
451	12	4'-6"	36 #
452	4	3'-8"	10 #
453	48	5'-0"	160 #
550	32	4'-9"	159 #
* 1101	3	2'-0"	32 #
		Total	433 Lbs.

PIECE DETAIL	QTY RQD
2	40

GEORGIA REGISTERED NO. 14890 PROFESSIONAL ENGINEER RICHARD C. POTTS 1-9-07

REV. No.	DATE	DETAILS
1		
2		
3		
4		

SCP STANDARD CONCRETE PRODUCTS
6 HATCHCOVER Rd SAVANNAH,GA.31404
TEL (912) 233-8263
FAX (912) 236-4689

SHEET DETAILS: BEAM DETAILS – ENGLISH MOD I (SPANS 2 – 8)
CONTR/PROJ No: BRST-1802(4)
CONTRACTOR: REA CONSTRUCTION
COUNTY, STATE & PROJECT DETAILS: SR 240 OVER BUCK CREEK, MACON COUNTY, GA
DRAWN BY: JAL
DESIGNED BY: GA DOT/ SCP / LPA
DATE: 11/15/06
CHECKED BY: FNS
JOB No. 07846S
SHEET 2 OF 2
SCALE: NONE

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