

SPANS A & E

0.6" Ø L. R. GRADE 270 STRANDS

AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
A1	8	#6	STR	28'-0"	336
S1	54	#6	1	4'-4"	351
S2	22	#6	1	3'-8"	121
S3	118	#5	1	4'-4"	533
S4	194	#3	2	4'-3"	310
S5	38	#3	3	3'-2"	45
S6	8	#6	STR	2'-8"	32
*S7	20	#5	STR	3'-8"	76
S8	79	#5	STR	3'-8"	302
S9	8	#4	4	8'-5"	45
S10	2	#4	STR	8'-0"	11
S11	8	#4	5	3'-2"	17

QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	9500 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
GIRDER QUANTITY	2,179	19.0	52

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
8	91'-8"	733'-4"

SPANS B & C

0.6" Ø L. R. GRADE 270 STRANDS

AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
A1	8	#6	STR	28'-0"	336
S1	54	#6	1	4'-4"	351
S2	22	#6	1	3'-8"	121
S3	118	#5	1	4'-4"	533
S4	194	#3	2	4'-3"	310
S5	38	#3	3	3'-2"	45
S6	8	#6	STR	2'-8"	32
S8	79	#5	STR	3'-8"	302
S9	8	#4	4	8'-5"	45
S10	2	#4	STR	8'-0"	11
S11	8	#4	5	3'-2"	17

QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	9500 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
GIRDER QUANTITY	2,103	19.0	52

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
8	91'-8"	733'-4"

SPAN D

0.6" Ø L. R. GRADE 270 STRANDS

AREA (SQUARE INCHES)	ULTIMATE STRENGTH (LBS. PER STRAND)	APPLIED PRESTRESS (LBS. PER STRAND)
0.217	58,600	43,950

REINFORCING STEEL FOR ONE GIRDER

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
A1	8	#6	STR	28'-0"	336
S1	32	#6	1	4'-4"	208
S2	44	#6	1	3'-8"	242
S3	118	#5	1	4'-4"	533
S4	194	#3	2	4'-3"	310
S5	38	#3	3	3'-2"	45
S6	8	#6	STR	2'-8"	32
S8	79	#5	STR	3'-8"	302
S9	8	#4	4	8'-5"	45
S10	2	#4	STR	8'-0"	11
S11	8	#4	5	3'-2"	17

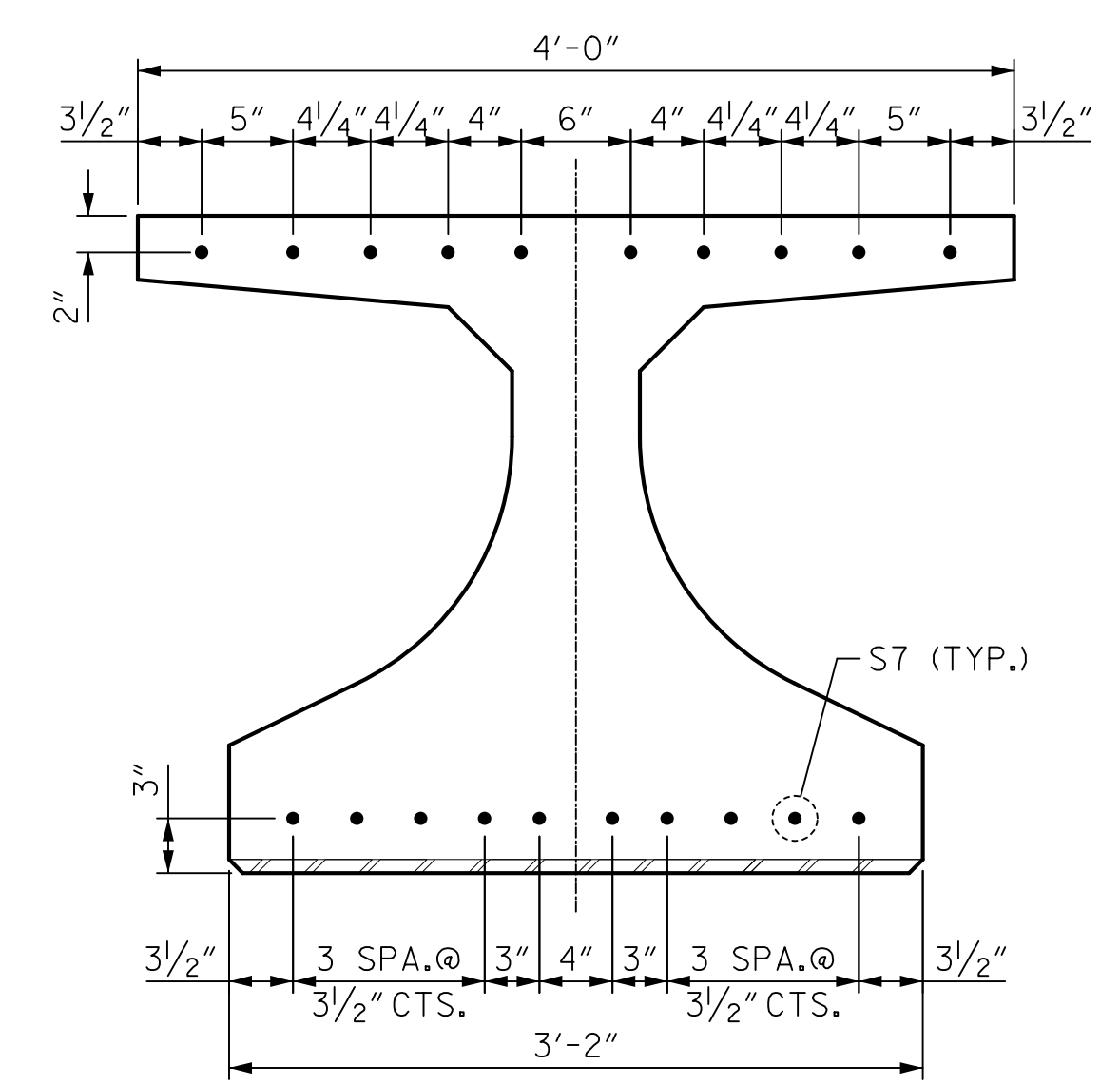
QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	9500 PSI CONCRETE	0.6" Ø L. R. STRANDS
	LB.	C.Y.	No.
GIRDER QUANTITY	2,081	19.0	52

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
4	91'-8"	366'-8"

* NOTE: S7 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.



DETAIL "A"

Mead & Hunt

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NC License No. F-1235



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT NO. B-5619
LENOIR COUNTY
STATION: 30+80.00 -L-
SHEET 5 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE
F.I.B. 36"
PRESTRESSED
CONCRETE GIRDER
(SPANS A THROUGH E)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-18
1			3			TOTAL SHEETS
2			4			40

DRAWN BY : J.S. HOBSON DATE : 11/24/20
CHECKED BY : J.A. BOYER DATE : 12/16/20
DESIGN ENGINEER OF RECORD : J.S. HOBSON DATE : 02/09/21