BILL OF MATERIAL
FOR ONE B1 GDR.

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	182	#4	1	6'-10"	831
S2	24	#6	1	6'-10"	246
S3	14	#4	2	8'-5"	79
S4	84	#4	3	3'-0"	168
S6	206	#5	4	4'-4"	931
✳ S7	20	#5	STR	3'-8"	76
S8	2	#5	2	9'-0"	19
S9	30	#5	STR	3'-3"	102
S10	2	#3	STR	1'-10"	1
S11	12	#5	5	11'-6"	144
S12	24	#4	STR	8'-0"	128

BILL OF MATERIAL
FOR ONE B2 GDR. OR B3 GDR.

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	184	#4	1	6'-10"	840
S2	24	#6	1	6'-10"	246
S3	14	#4	2	8'-5"	79
S4	84	#4	3	3'-0"	168
S6	208	#5	4	4'-4"	940
✳ S7	20	#5	STR	3'-8"	76
S8	2	#5	2	9'-0"	19
S9	31	#5	STR	3'-3"	105
S10	2	#3	STR	1'-10"	1
S11	12	#5	5	11'-6"	144
S12	24	#4	STR	8'-0"	128

BILL OF MATERIAL
FOR ONE B4 GDR. OR B5 GDR.

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	186	#4	1	6'-10"	849
S2	24	#6	1	6'-10"	246
S3	14	#4	2	8'-5"	79
S4	84	#4	3	3'-0"	168
S6	210	#5	4	4'-4"	949
✳ S7	20	#5	STR	3'-8"	76
S8	2	#5	2	9'-0"	19
S9	32	#5	STR	3'-3"	108
S10	2	#3	STR	1'-10"	1
S11	12	#5	5	11'-6"	144
S12	24	#4	STR	8'-0"	128

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

BILL OF MATERIAL
FOR ONE B6 GDR. OR B7 GDR.

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	188	#4	1	6'-10"	858
S2	24	#6	1	6'-10"	246
S3	14	#4	2	8'-5"	79
S4	84	#4	3	3'-0"	168
S6	212	#5	4	4'-4"	958
✳ S7	20	#5	STR	3'-8"	76
S8	2	#5	2	9'-0"	19
S9	33	#5	STR	3'-3"	112
S10	2	#3	STR	1'-10"	1
S11	12	#5	5	11'-6"	144
S12	24	#4	STR	8'-0"	128

BILL OF MATERIAL
FOR ONE B8 GDR.

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	190	#4	1	6'-10"	867
S2	24	#6	1	6'-10"	246
S3	14	#4	2	8'-5"	79
S4	84	#4	3	3'-0"	168
S6	214	#5	4	4'-4"	967
✳ S7	20	#5	STR	3'-8"	76
S8	2	#5	2	9'-0"	19
S9	34	#5	STR	3'-3"	115
S10	2	#3	STR	1'-10"	1
S11	12	#5	5	11'-6"	144
S12	24	#4	STR	8'-0"	128

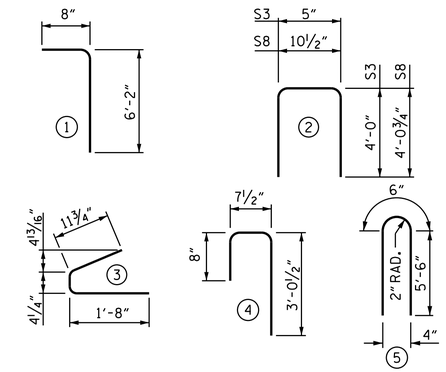
GIRDERS REQUIRED

	NUMBER	LENGTH
GIRDER B1	1	115'-5¼"
GIRDER B2	1	116'-6½"
GIRDER B3	1	117'-7⅝"
GIRDER B4	1	118'-8¾"
GIRDER B5	1	119'-10"
GIRDER B6	1	120'-11"
GIRDER B7	1	122'-0¼"
GIRDER B8	1	123'-1⅜"
TOTAL	8	954'-2¾"

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

BAR TYPES



ALL BAR DIMENSIONS ARE OUT-TO-OUT.

QUANTITIES FOR EACH GIRDER

	REINFORCING STEEL	10,000 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
GIRDER B1	2,725	24.7	50
GIRDER B2	2,746	25.0	50
GIRDER B3	2,746	25.2	50
GIRDER B4	2,767	25.4	50
GIRDER B5	2,767	25.7	50
GIRDER B6	2,789	25.9	50
GIRDER B7	2,789	26.1	50
GIRDER B8	2,810	26.4	50

PROJECT NO. U-2579B
FORSYTH COUNTY
STATION: 584+36.24 -L-

SHEET 3 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

72" PRESTRESSED CONCRETE
MODIFIED BULB TEE
CONTINUOUS FOR LIVE LOAD
SPAN B
(RIGHT LANE)

NORTH CAROLINA PROFESSIONAL SEAL 23371 ENGINEER VIPUL A. PATEL

DocuSigned by: Vipul A. Patel 1C157DE15D464AA... 8/1/2014

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-193
1			3			TOTAL SHEETS
2			4			707

STR. #6

DRAWN BY : T. H. CARROLL DATE : 1/3/14
CHECKED BY : P. S. ADKINS DATE : 2/28/14
DESIGN ENGINEER OF RECORD: H. A. LOCKLEAR DATE : 6/4/14

30-JUL-2014 12:59
R:\Structures\Plans\Str06\U2579B_SD_G*_06.dgn
lsutton