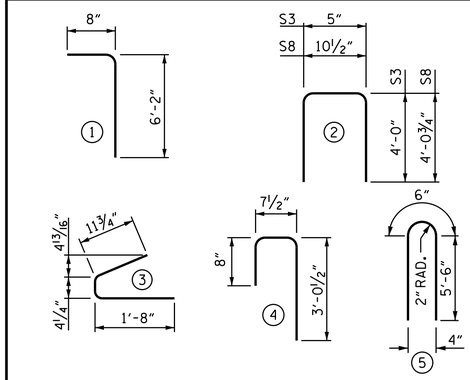
0.6'' Ø L. R. GRADE 270 STRANDS

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.

BILL OF MATERIAL FOR ONE B1 GDR.

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	150	#4	1	6'-10''	685
S2	24	#6	1	6'-10''	246
S3	14	#4	2	8'-5''	79
S4	84	#4	3	3'-0''	168
S6	174	#5	4	4'-4''	786
✳ S7	20	#5	STR	3'-8''	76
S8	2	#5	2	9'-0''	19
S9	40	#5	STR	3'-3''	136
S10	2	#3	STR	1'-10''	1
S11	8	#5	5	11'-6''	96
S12	16	#4	STR	8'-0''	86

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

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	152	#4	1	6'-10''	694
S2	24	#6	1	6'-10''	246
S3	14	#4	2	8'-5''	79
S4	84	#4	3	3'-0''	168
S6	176	#5	4	4'-4''	795
✳ S7	20	#5	STR	3'-8''	76
S8	2	#5	2	9'-0''	19
S9	41	#5	STR	3'-3''	139
S10	2	#3	STR	1'-10''	1
S11	8	#5	5	11'-6''	96
S12	16	#4	STR	8'-0''	86

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

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	154	#4	1	6'-10''	703
S2	24	#6	1	6'-10''	246
S3	14	#4	2	8'-5''	79
S4	84	#4	3	3'-0''	168
S6	178	#5	4	4'-4''	804
✳ S7	20	#5	STR	3'-8''	76
S8	2	#5	2	9'-0''	19
S9	42	#5	STR	3'-3''	142
S10	2	#3	STR	1'-10''	1
S11	8	#5	5	11'-6''	96
S12	16	#4	STR	8'-0''	86

✳ 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	156	#4	1	6'-10''	712
S2	24	#6	1	6'-10''	246
S3	14	#4	2	8'-5''	79
S4	84	#4	3	3'-0''	168
S6	180	#5	4	4'-4''	814
✳ S7	20	#5	STR	3'-8''	76
S8	2	#5	2	9'-0''	19
S9	43	#5	STR	3'-3''	146
S10	2	#3	STR	1'-10''	1
S11	8	#5	5	11'-6''	96
S12	16	#4	STR	8'-0''	86

BILL OF MATERIAL FOR ONE B8 GDR.

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	158	#4	1	6'-10''	721
S2	24	#6	1	6'-10''	246
S3	14	#4	2	8'-5''	79
S4	84	#4	3	3'-0''	168
S6	182	#5	4	4'-4''	823
✳ S7	20	#5	STR	3'-8''	76
S8	2	#5	2	9'-0''	19
S9	44	#5	STR	3'-3''	149
S10	2	#3	STR	1'-10''	1
S11	8	#5	5	11'-6''	96
S12	16	#4	STR	8'-0''	86

GIRDERS REQUIRED

	NUMBER	LENGTH
GIRDER B1	1	104'-10½"
GIRDER B2	1	105'-11¾"
GIRDER B3	1	107'-0⅞"
GIRDER B4	1	108'-2"
GIRDER B5	1	109'-3⅛"
GIRDER B6	1	110'-4¼"
GIRDER B7	1	111'-5½"
GIRDER B8	1	112'-6½"
TOTAL	8	869'-8½"

QUANTITIES FOR EACH GIRDER

	REINFORCING STEEL	8000 PSI CONCRETE	0.6'' Ø L.R. STRANDS
	LB.	C.Y.	No.
GIRDER B1	2,378	22.5	38
GIRDER B2	2,399	22.7	38
GIRDER B3	2,399	22.9	38
GIRDER B4	2,420	23.2	38
GIRDER B5	2,420	23.4	38
GIRDER B6	2,443	23.6	38
GIRDER B7	2,443	23.9	38
GIRDER B8	2,464	24.1	38

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
(LEFT LANE)

NORTH CAROLINA PROFESSIONAL SEAL 23371 ENGINEER VIPUL A. PATEL

DocuSigned by: Vipul A. Patel 1C157DE15D464AA... 7/29/2014

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-155
1			3			TOTAL SHEETS
2			4			707

STR. #5

DRAWN BY : T. H. CARROLL DATE : 10/22/13
CHECKED BY : P. S. ADKINS DATE : 12/30/13
DESIGN ENGINEER OF RECORD: H. A. LOCKLEAR DATE : 6/4/14

28-JUL-2014 16:31
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