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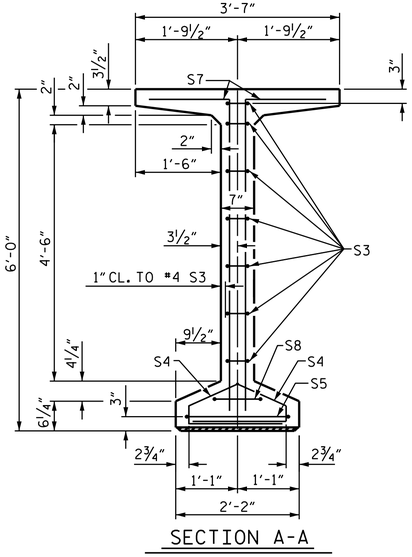
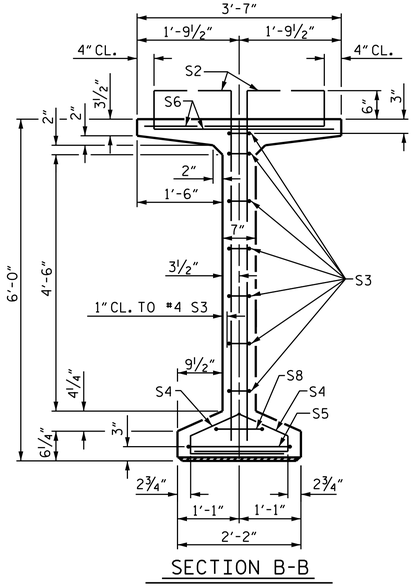
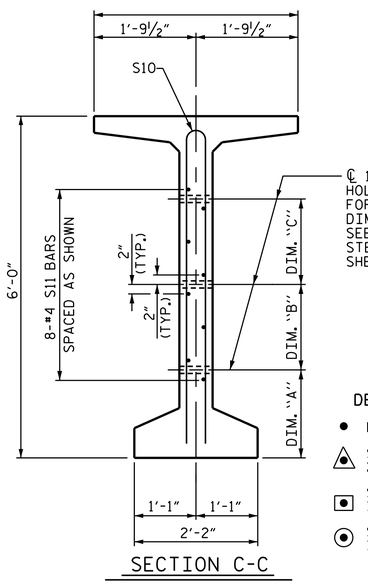


SECTION A-A



SECTION B-B

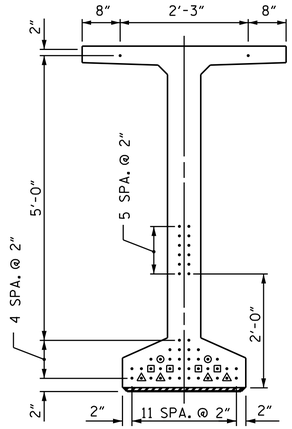


SECTION C-C

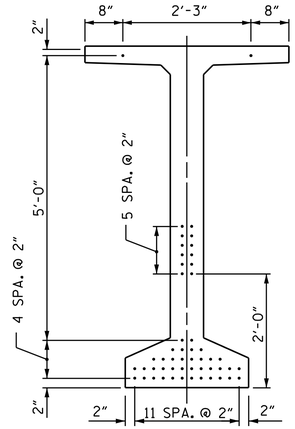
(S1, S6 AND S9 BARS NOT SHOWN)

DEBONDING LEGEND

- ● FULLY BONDED STRANDS
- ◬ STRANDS DEBONDED FOR 26'-0" FROM END OF GIRDER
- ▣ STRANDS DEBONDED FOR 18'-0" FROM END OF GIRDER
- ◉ STRANDS DEBONDED FOR 12'-0" FROM END OF GIRDER

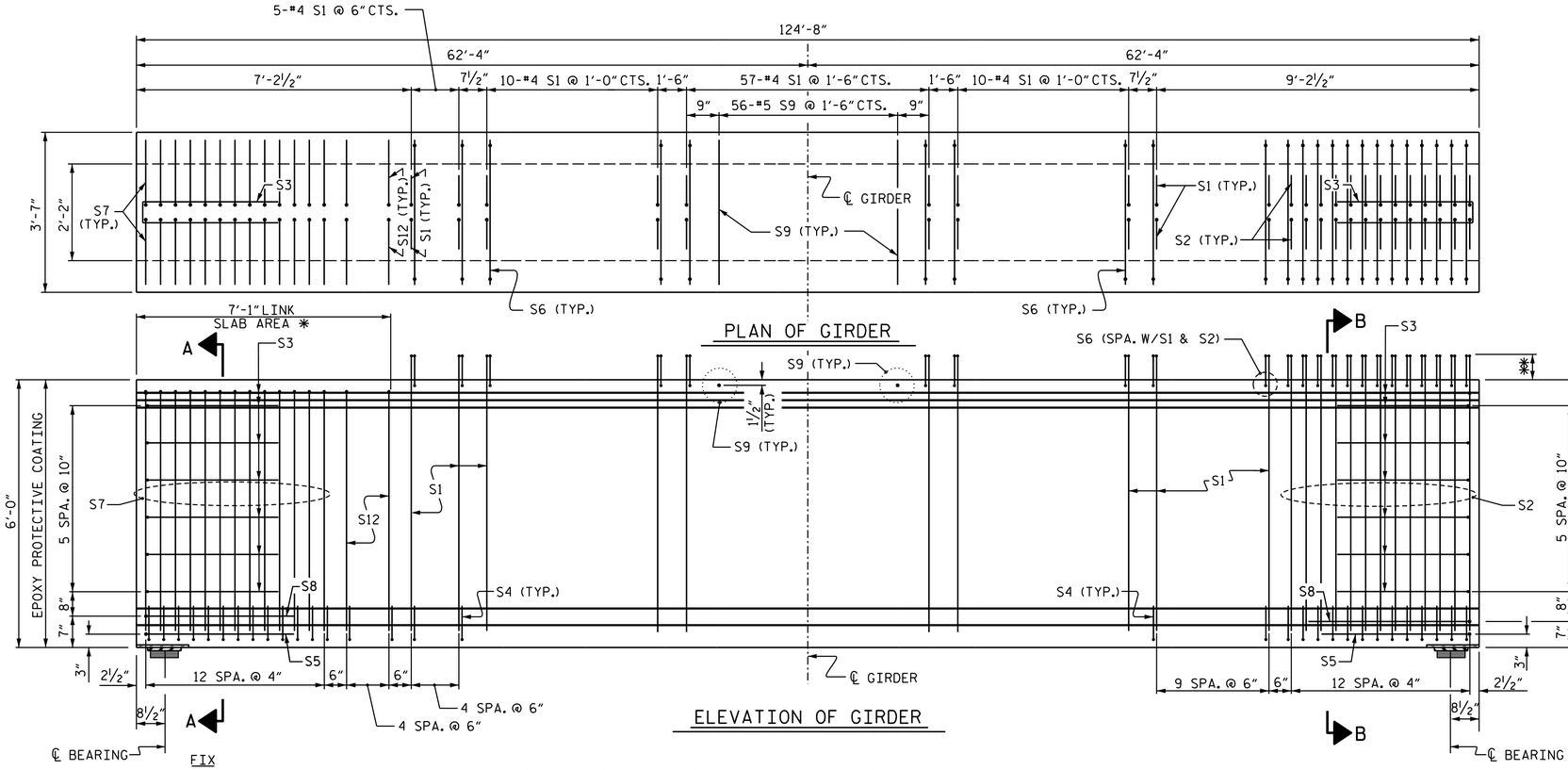


AT END OF GIRDER



AT ℄ OF GIRDER

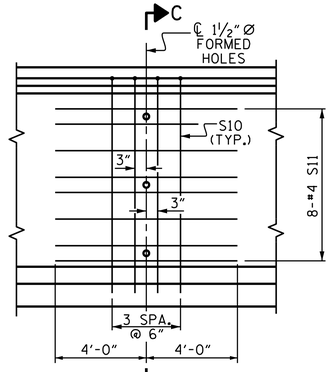
0.6" Ø LOW RELAXATION STRAND LAYOUT



PLAN OF GIRDER

ELEVATION OF GIRDER

✱✱ THE PROJECTION OF THE S1 & S2 BARS ABOVE THE TOP OF THE GIRDER VARIES FROM 7" AT THE ENDS OF THE GIRDER TO 6" AT THE CENTERLINE OF THE GIRDER.



PARTIAL ELEVATION

SHOWING INTERMEDIATE STEEL DIAPHRAGM REINFORCING STEEL FOR GIRDER Nos. 1-4.

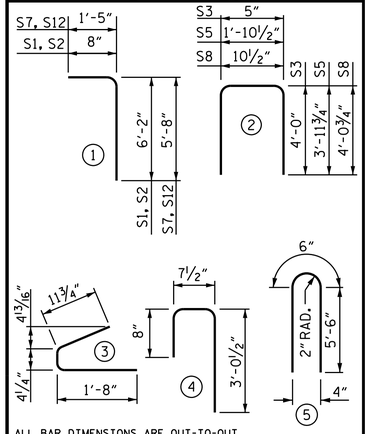
0.6" Ø L. R. GRADE 270 STRANDS

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

REINFORCING STEEL FOR ONE GDR

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
S1	184	#4	1	6'-10"	840
S2	26	#5	1	6'-10"	185
S3	14	#4	2	8'-5"	79
S4	92	#4	3	3'-0"	184
S5	2	#5	2	9'-10"	21
S6	210	#5	4	4'-4"	949
S7	26	#5	1	7'-1"	192
S8	2	#5	2	9'-0"	19
S9	56	#5	STR	3'-3"	190
S10	8	#5	5	11'-6"	96
S11	16	#4	STR	8'-0"	86
S12	10	#4	1	7'-1"	47

BAR TYPES



ALL BAR DIMENSIONS ARE OUT-TO-OUT

QUANTITIES FOR ONE GIRDER

	REINFORCING STEEL	10,000 PSI CONCRETE	0.6" Ø L.R. STRANDS
	LB.	C.Y.	No.
GIRDERS 1-4	2888	26.7	52

GIRDERS REQUIRED

NUMBER	LENGTH	TOTAL LENGTH
8	124'-8"	997'-4"

✱DO NOT ROUGHEN TOP OF GIRDER IN THIS AREA

PROJECT NO. B-5825

YADKIN/FORSYTH COUNTY

STATION: 34+65.50 -L-

SHEET 3 OF 7

NORTH CAROLINA PROFESSIONAL SEAL 20125 ENGINEER MARSHALL C. CREEK, JR.

Marshall C. Creek Jr.
5FBCC2F3A4DC413...

4/14/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
706 HILLSBOROUGH STREET
SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

72" PRESTRESSED CONCRETE MODIFIED BULB TEE CONTINUOUS FOR LIVE LOAD SPANS C & F

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-22
1			3			TOTAL SHEETS
2			4			60

DRAWN BY : ZCS DATE : 12/19
CHECKED BY : MGC DATE : 1/20
DESIGN ENGINEER OF RECORD: TBE DATE : 2/20

2/19/2020
X:\NCDOT\B-5825\Structures\Str. #1 - 34+65.50 -L-\Final Plans\DGNs\401_047_B-5825_SMU_G3_980035.dgn
User:ZSmith