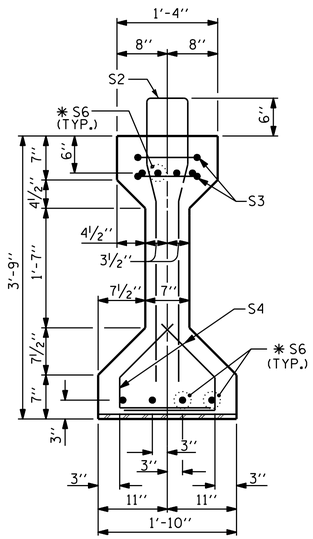
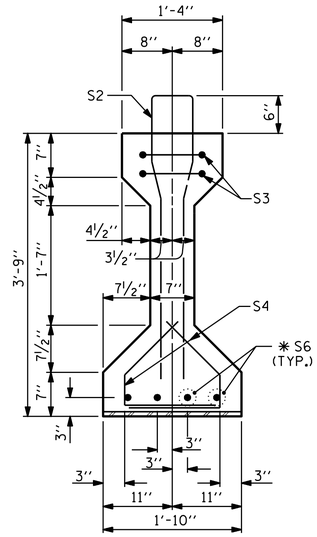
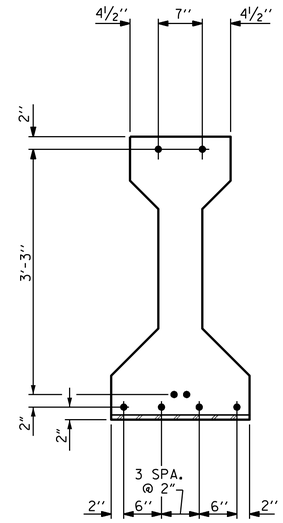


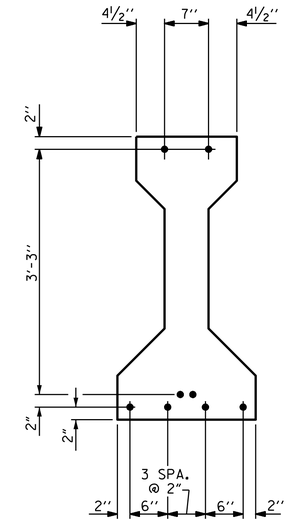

SECTION A-A




SECTION B-B

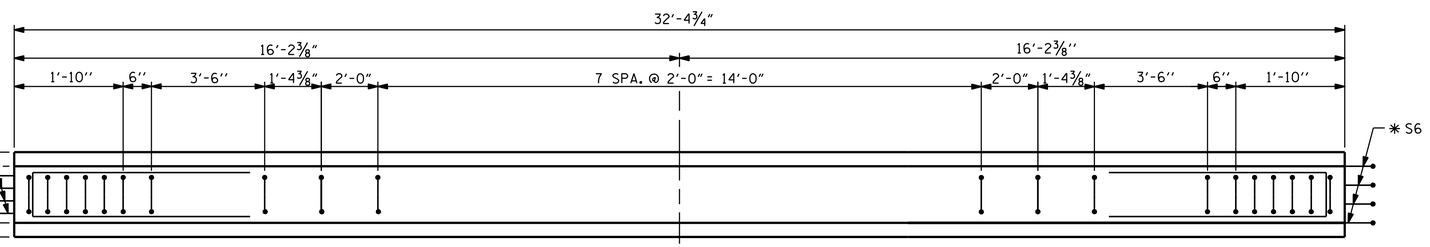



AT END OF GIRDER

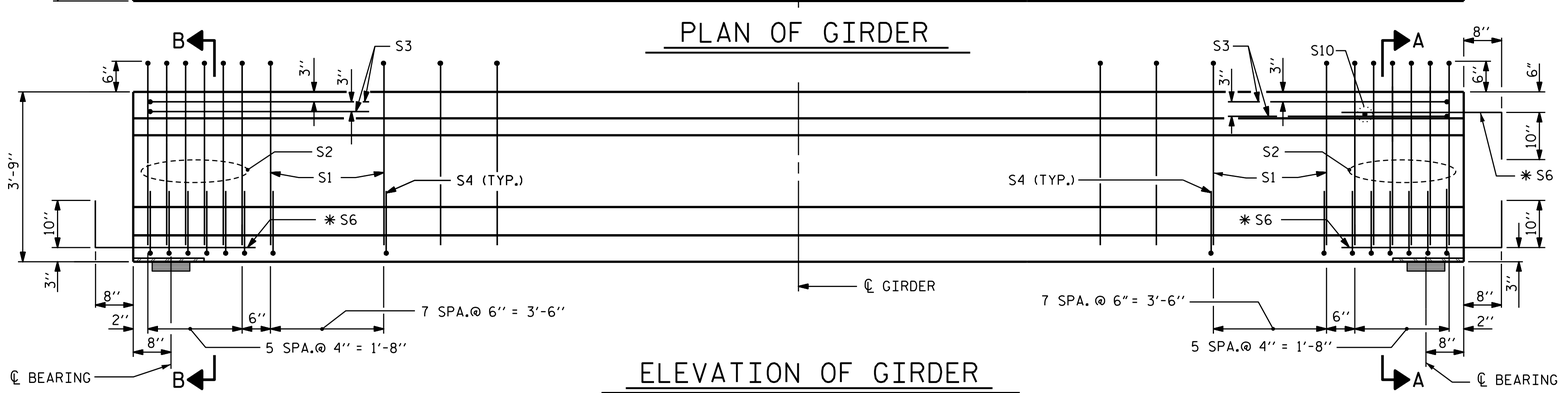



AT ℄ OF GIRDER

0.6" Ø LOW RELAXATION STRAND LAYOUT




PLAN OF GIRDER




ELEVATION OF GIRDER

## 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 |

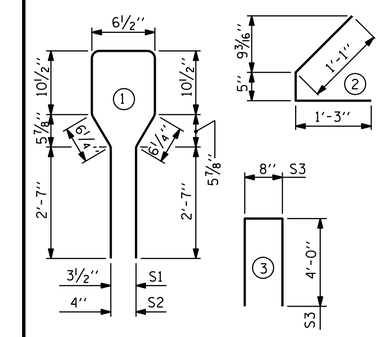
## REINFORCING STEEL FOR ONE GIRDER

| BAR | NUMBER | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| S1 | 26 | #4 | 1 | 8'-6" | 148 |
| S2 | 12 | #6 | 1 | 8'-6" | 153 |
| S3 | 4 | #4 | 3 | 8'-8" | 23 |
| S4 | 56 | #4 | 2 | 2'-9" | 103 |
| ✱ S6 | 12 | #5 | STR | 3'-8" | 46 |
| S10 | 1 | #3 | STR | 1'-0" | 1 |

✱ NOTE: S6 BARS SHALL BE BENT BEFORE SHIPMENT. HEAT BENDING SHALL NOT BE ALLOWED.

## BAR TYPES

ALL BAR DIMENSIONS ARE OUT-TO-OUT




## QUANTITIES FOR ONE GIRDER

| | REINFORCING STEEL | 5000 PSI CONCRETE | 0.6" Ø L. R. STRANDS |
|---|---|---|---|
| | LB. | C.Y. | No. |
| | 474 | 4.7 | 8 |

## GIRDERS REQUIRED

| NUMBER | LENGTH | TOTAL LENGTH |
|---|---|---|
| 5 | 32'-4¾" | 161'-11¾" |

PROJECT NO. B-4983

BURKE COUNTY

STATION: 13+52.95 -L-

SHEET 3 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

AASHTO TYPE III
PRESTRESSED CONCRETE GIRDER
CONTINUOUS FOR LIVE LOAD
SPAN C

| | | | |
|---|---|---|---|
| ASSEMBLED BY : | V.X. NGUYEN | DATE : | 6/21/12 |
| CHECKED BY : | H.T. BARBOUR | DATE : | 4/13 |
| DESIGN ENGINEER OF RECORD: | W. J. HARRIS | DATE : | 4/14 |

DRAWN BY : ELR 8/91
CHECKED BY : GRP 8/91

REV. 10/17/00R RWW/LES
REV. 5/1/06R TLA/GM
REV. 10/1/11 MAA/GM

NORTH CAROLINA PROFESSIONAL SEAL 20125 ENGINEER MARSHALL A. CHECK, JR.
DocuSigned by: Marshall A. Check, Jr.
6549D6EBAA3B406...
4/25/2014

REVISIONS

| NO. | BY: | DATE: | NO. | BY: | DATE: |
|---|---|---|---|---|---|
| 1 | | | 3 | | |
| 2 | | | 4 | | |

SHEET NO. S-12

TOTAL SHEETS 36

STD. NO. PCG5

$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$