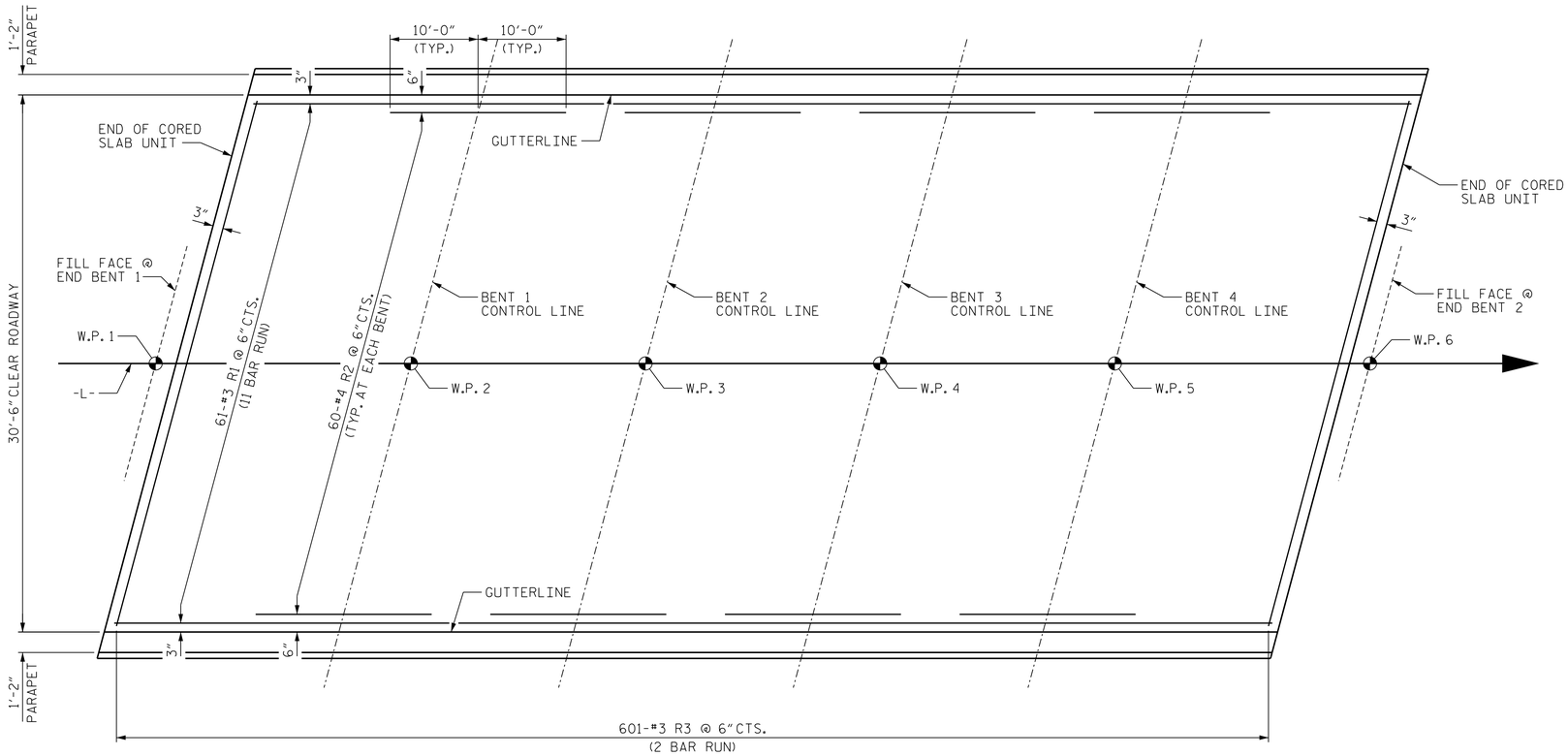
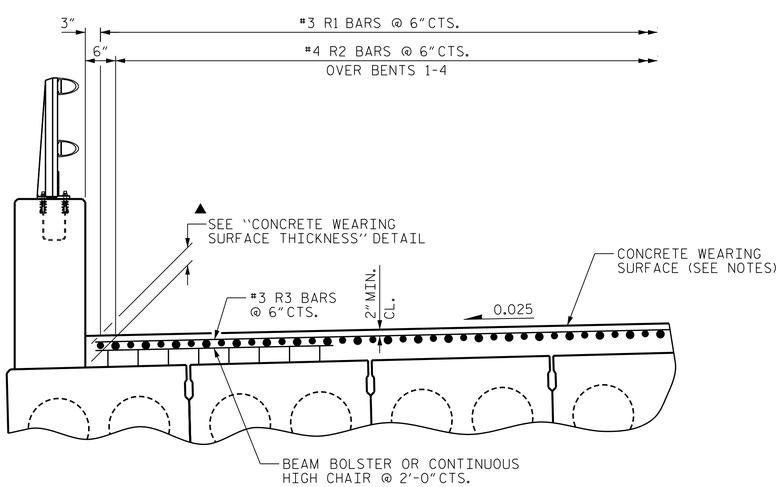
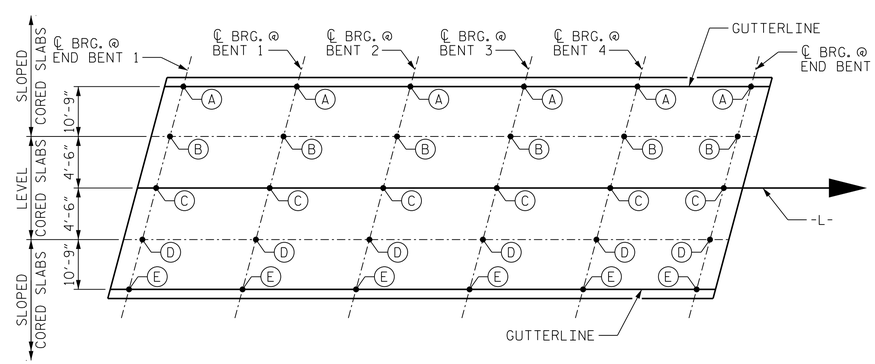



## PLAN SHOWING CONCRETE WEARING SURFACE REINFORCING STEEL




## REINFORCING FOR CONCRETE WEARING SURFACE

▲ BASED ON PREDICTED FINAL CAMBER AND THEORETICAL GRADE LINE ELEVATIONS




## CONCRETE WEARING SURFACE THICKNESS

NOTE: WEARING SURFACE THICKNESS INCLUDES IMPACT OF CREST VERTICAL CURVE, BRIDGE SKEW AND ADJUSTMENT TO ELIMINATE TWISTING OF CORED SLABS.

| | END BENT 1 | BENT 1 | BENT 2 | BENT 3 | BENT 4 | END BENT 2 |
|---|---|---|---|---|---|---|
| DIM. (A) | 6 1/4" | 5 7/8" | 5 1/2" | 5 1/4" | 5 1/4" | 5 1/4" |
| DIM. (B) | 5 13/16" | 5 9/16" | 5 1/4" | 5 1/4" | 5 3/8" | 5 1/2" |
| DIM. (C) | 7" | 6 7/8" | 6 5/8" | 6 5/8" | 6 3/4" | 6 15/16" |
| DIM. (D) | 5 1/2" | 5 3/8" | 5 1/4" | 5 1/4" | 5 1/2" | 5 3/4" |
| DIM. (E) | 5 1/4" | 5 1/4" | 5 1/4" | 5 7/16" | 5 13/16" | 6 3/16" |

## NOTES

PLACEMENT OF THE CONCRETE WEARING SURFACE SHALL OCCUR AFTER CASTING THE CONCRETE PARAPETS.

THE COST OF THE #3 AND #4 BARS CAST WITH THE CONCRETE WEARING SURFACE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE WEARING SURFACE.

FOR CONCRETE WEARING SURFACE, SEE SPECIAL PROVISIONS.

A GROOVED CONTRACTION JOINT, 1/2" IN DEPTH, SHALL BE TOOLED IN THE TOP OF THE CONCRETE WEARING SURFACE AT THE END BENTS AND BENTS IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS.

### BILL OF MATERIAL FOR CONCRETE WEARING SURFACE

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| *R1 | 671 | #3 | STR | 28'-6" | 7190 |
| *R2 | 240 | #4 | STR | 20'-0" | 3206 |
| *R3 | 1202 | #3 | STR | 16'-4" | 7382 |
| | | | | | |
| | | | | | |
| *EPOXY COATED REINFORCING STEEL | | | | | 17,778 LBS. |
| CONCRETE WEARING SURFACE | | | | | 9166 SQ. FT. |

### GROOVING BRIDGE FLOORS

| | |
|---|---|
| APPROACH SLABS | 614 SQ. FT. |
| BRIDGE DECK | 8,255 SQ. FT. |
| TOTAL | 8,869 SQ. FT. |

### SPLICE LENGTH CHART

| BAR SIZE | EPOXY COATED |
|---|---|
| #3 | 1'-3" |

PROJECT NO. B-5601

WASHINGTON COUNTY

STATION: 16+35.00 -L-

NORTH CAROLINA PROFESSIONAL SEAL 24939 ENGINEER BYRON E. ATKINSON

10/17/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

# CONCRETE WEARING SURFACE

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

SHEET NO. S-9

TOTAL SHEETS 31

| | | | |
|---|---|---|---|
| DRAWN BY : | B.E. LANNING | DATE : | 01/17 |
| CHECKED BY : | B.E. ATKINSON | DATE : | 01/17 |
| DESIGN ENGINEER OF RECORD : | B.E. ATKINSON | DATE : | 08/17 |

10/17/2017
11:43:23 AM
User: blanning
Filename: P:\NC Bridges\M16003_VHB_Div. 1 Br. Repl. (4 Bridges)\M16003.02_Washington 11_B-5601\B-5601\Structures\401_017_B5601_SMU_CWSI.dgn