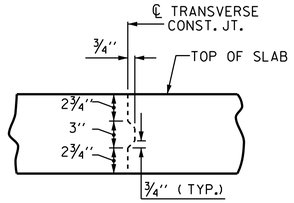



## TRANSVERSE CONSTRUCTION JOINT DETAIL

NOTE: REINFORCING STEEL IN SLAB NOT SHOWN. LONGITUDINAL REINFORCING STEEL SHALL BE CONTINUOUS THRU JOINT

### SUPERSTRUCTURE REINFORCING STEEL LENGTHS ARE BASED ON THE FOLLOWING MINIMUM SPLICE LENGTHS

| BAR SIZE | SUPERSTRUCTURE EXCEPT APPROACH SLABS, PARAPET, AND BARRIER RAIL | | APPROACH SLABS | | PARAPET AND BARRIER RAIL |
|---|---|---|---|---|---|
| | EPOXY COATED | UNCOATED | EPOXY COATED | UNCOATED | |
| #4 | 2'-0" | 1'-9" | 2'-0" | 1'-9" | 2'-9" |
| #5 | 2'-6" | 2'-2" | 2'-6" | 2'-2" | 3'-5" |
| #6 | 3'-0" | 2'-7" | 3'-10" | 2'-7" | 4'-4" |
| #7 | 5'-3" | 3'-6" | | | |
| #8 | 6'-10" | 4'-7" | | | |

## REINFORCING BAR SCHEDULE
## SPANS A THRU C

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| * A1 | 255 | #5 | STR | 39'-9" | 10,572 |
| A2 | 255 | #5 | STR | 39'-9" | 10,572 |
| * A101 | 1 | #5 | STR | 36'-3" | 38 |
| * A102 | 1 | #5 | STR | 33'-4" | 35 |
| * A103 | 1 | #5 | STR | 30'-6" | 32 |
| * A104 | 1 | #5 | STR | 27'-8" | 29 |
| * A105 | 1 | #5 | STR | 24'-10" | 26 |
| * A106 | 1 | #5 | STR | 22'-0" | 23 |
| * A107 | 1 | #5 | STR | 19'-2" | 20 |
| * A108 | 1 | #5 | STR | 16'-4" | 17 |
| * A109 | 1 | #5 | STR | 13'-6" | 14 |
| * A110 | 1 | #5 | STR | 10'-8" | 11 |
| * A111 | 1 | #5 | STR | 7'-10" | 8 |
| * A112 | 1 | #5 | STR | 5'-0" | 5 |
| * A150 | 1 | #5 | STR | 36'-3" | 38 |
| * A151 | 1 | #5 | STR | 33'-4" | 35 |
| * A152 | 1 | #5 | STR | 30'-6" | 32 |
| * A153 | 1 | #5 | STR | 27'-8" | 29 |
| * A154 | 1 | #5 | STR | 24'-10" | 26 |
| * A155 | 1 | #5 | STR | 22'-0" | 23 |
| * A156 | 1 | #5 | STR | 19'-2" | 20 |
| * A157 | 1 | #5 | STR | 16'-4" | 17 |
| * A158 | 1 | #5 | STR | 13'-6" | 14 |
| * A159 | 1 | #5 | STR | 10'-8" | 11 |
| * A160 | 1 | #5 | STR | 7'-10" | 8 |
| * A161 | 1 | #5 | STR | 5'-0" | 5 |

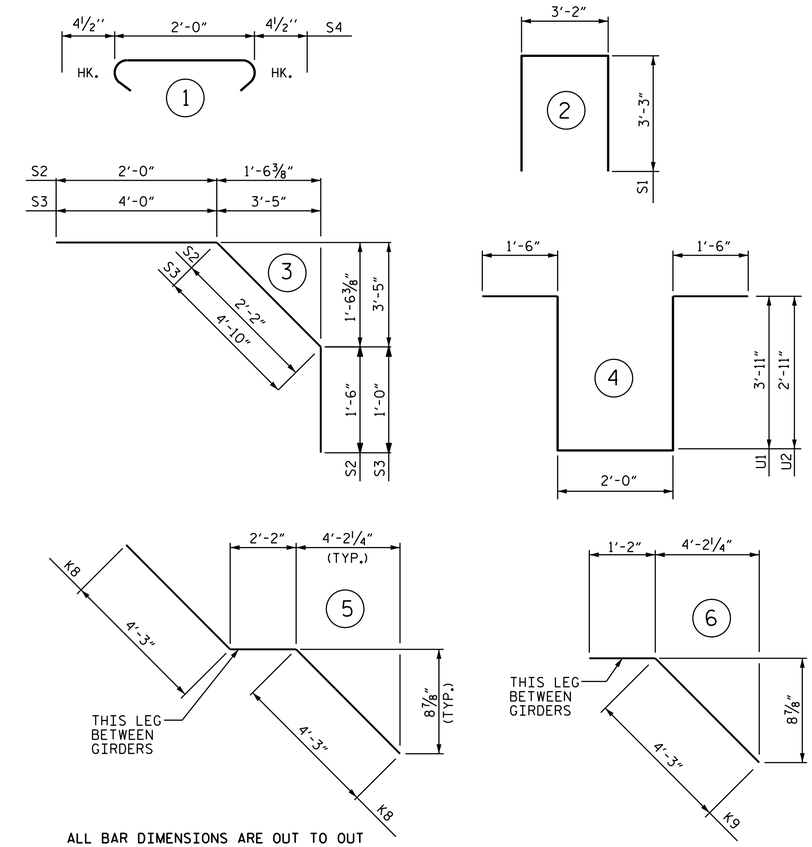
| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| A201 | 1 | #5 | STR | 36'-3" | 38 |
| A202 | 1 | #5 | STR | 33'-4" | 35 |
| A203 | 1 | #5 | STR | 30'-6" | 32 |
| A204 | 1 | #5 | STR | 27'-8" | 29 |
| A205 | 1 | #5 | STR | 24'-10" | 26 |
| A206 | 1 | #5 | STR | 22'-0" | 23 |
| A207 | 1 | #5 | STR | 19'-2" | 20 |
| A208 | 1 | #5 | STR | 16'-4" | 17 |
| A209 | 1 | #5 | STR | 13'-6" | 14 |
| A210 | 1 | #5 | STR | 10'-8" | 11 |
| A211 | 1 | #5 | STR | 7'-10" | 8 |
| A212 | 1 | #5 | STR | 5'-0" | 5 |
| A250 | 1 | #5 | STR | 36'-3" | 38 |
| A251 | 1 | #5 | STR | 33'-4" | 35 |
| A252 | 1 | #5 | STR | 30'-6" | 32 |
| A253 | 1 | #5 | STR | 27'-8" | 29 |
| A254 | 1 | #5 | STR | 24'-10" | 26 |
| A255 | 1 | #5 | STR | 22'-0" | 23 |
| A256 | 1 | #5 | STR | 19'-2" | 20 |
| A257 | 1 | #5 | STR | 16'-4" | 17 |
| A258 | 1 | #5 | STR | 13'-6" | 14 |
| A259 | 1 | #5 | STR | 10'-8" | 11 |
| A260 | 1 | #5 | STR | 7'-10" | 8 |
| A261 | 1 | #5 | STR | 5'-0" | 5 |

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| * B1 | 28 | #4 | STR | 18'-5" | 344 |
| * B2 | 56 | #6 | STR | 41'-0" | 3449 |
| * B3 | 50 | #6 | STR | 15'-6" | 1164 |
| * B4 | 28 | #4 | STR | 21'-6" | 402 |
| * B5 | 28 | #4 | STR | 20'-0" | 374 |
| B6 | 144 | #6 | STR | 46'-6" | 10057 |
| * B7 | 104 | #6 | STR | 7'-0" | 1093 |
| K1 | 20 | #4 | STR | 21'-1" | 282 |
| K2 | 32 | #4 | STR | 6'-8" | 143 |
| K3 | 48 | #4 | STR | 7'-6" | 240 |
| K4 | 8 | #4 | STR | 6'-3" | 33 |
| K5 | 8 | #4 | STR | 2'-4" | 12 |
| K6 | 8 | #4 | STR | 2'-9" | 15 |
| K7 | 4 | #4 | STR | 2'-1" | 6 |
| K8 | 24 | #4 | 5 | 10'-8" | 171 |
| K9 | 16 | #4 | 6 | 5'-5" | 58 |
| K10 | 16 | #4 | STR | 5'-0" | 53 |
| S1 | 68 | #4 | 2 | 9'-8" | 439 |
| * S2 | 68 | #4 | 3 | 5'-8" | 257 |
| * S3 | 62 | #4 | 3 | 9'-10" | 407 |
| S4 | 152 | #4 | 1 | 2'-9" | 279 |
| U1 | 40 | #4 | 4 | 12'-10" | 343 |
| U2 | 16 | #4 | 4 | 10'-10" | 116 |

REINFORCING STEEL = 23,335 LBS.
* EPOXY COATED REINF. STEEL = 18,578 LBS.

* THESE BARS ARE EPOXY COATED

## BAR TYPES

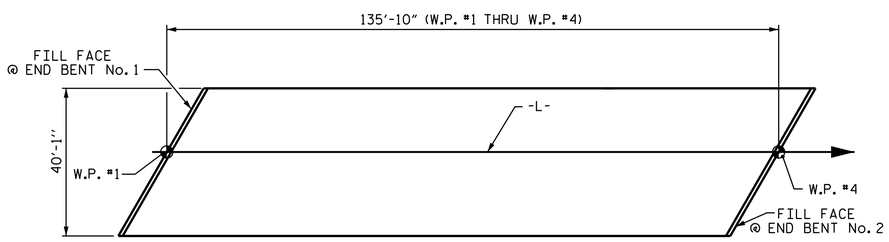



ALL BAR DIMENSIONS ARE OUT TO OUT

### SUPERSTRUCTURE BILL OF MATERIAL

| | | CLASS AA CONCRETE | REINFORCING STEEL | EPOXY COATED REINFORCING STEEL |
|---|---|---|---|---|
| | | (CU. YDS.) | (LBS.) | (LBS.) |
| SPAN A, B, AND C | POUR #1 | 22.3 | 23,335 | 18,578 |
| | POUR #2 | 89.7 | | |
| | POUR #3 | 48.2 | | |
| | POUR #4 | 45.5 | | |
| TOTALS ** | | 205.7 | 23,335 | 18,578 |

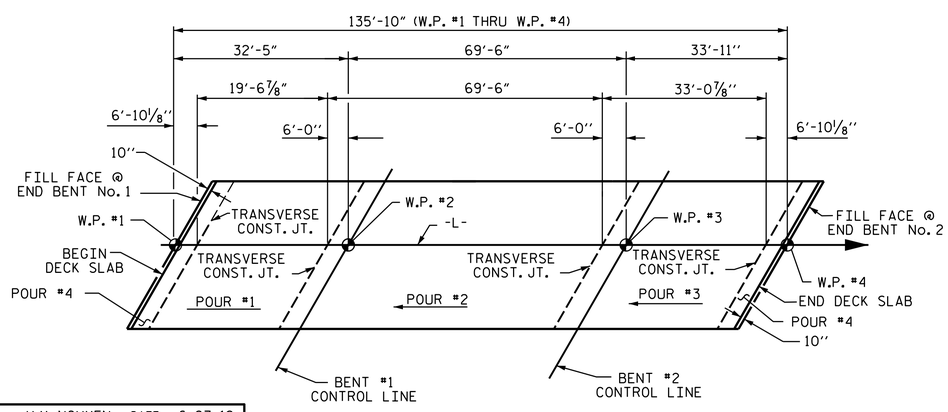
** QUANTITIES FOR PARAPET & SIDEWALK ARE NOT INCLUDED



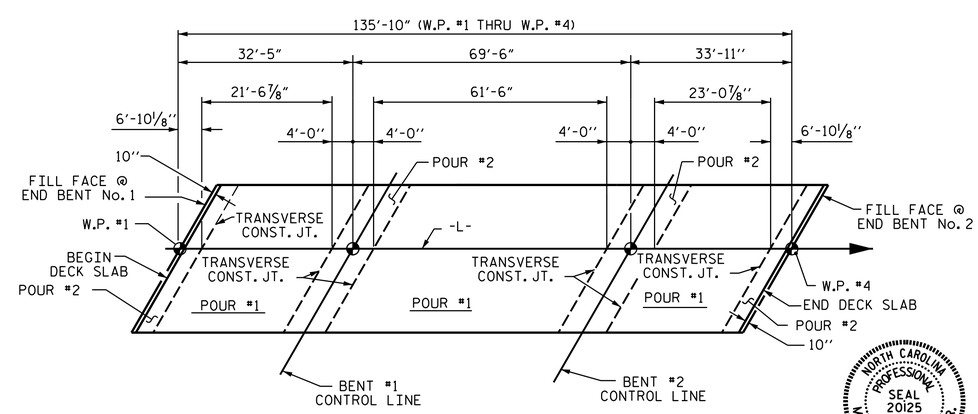

## LAYOUT FOR COMPUTING AREA REINFORCED CONCRETE DECK SLAB
( SQ. FT. = 5,377 )

### GROOVING BRIDGE FLOORS

| | |
|---|---|
| APPROACH SLABS | 1396 SQ.FT. |
| BRIDGE DECK | 3,875 SQ.FT. |
| TOTAL | 5,271 SQ.FT. |




## POURING SEQUENCE




## OPTIONAL POURING SEQUENCE

POUR #2 CANNOT BE STARTED UNTIL BOTH ADJACENT #1 POURS REACH A MINIMUM OF 3000 PSI.

PROJECT NO. B-4983
BURKE COUNTY
STATION: 13+52.95 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
BILL OF MATERIAL

NORTH CAROLINA PROFESSIONAL SEAL 20125 ENGINEER
MARSHALL C. CHEEK, JR.
6549D6EBAA3B405...
4/25/2014

| ASSEMBLED BY : V.X. NGUYEN | DATE : 6-27-12 |
|---|---|
| CHECKED BY : H.T. BARBOUR | DATE : 4-13 |

| DRAWN BY : JMB 5/87 | REV. 6/1/94 | EEM/GRP |
|---|---|---|
| CHECKED BY : SJD 9/87 | REV. 8/16/99 | RWW/LES |
| | REV. 5/1/06 | TLA/GM |

| REVISIONS | | | | | | SHEET NO. |
|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-22 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 36 |

STD. NO. BOM2

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