

**BILL OF MATERIAL**

**CONCRETE WEARING SURFACE**

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
*R1	722	#3	STR	15'-11"	4320
*R2	434	#3	STR	26'-1"	4256
*R3	122	#4	STR	20'-0"	1630

\* EPOXY COATED REINF. STEEL = 10,206 LBS  
 CONCRETE WEARING SURFACE = 5,404 SQ. FT.  
 FOR GROOVING BRIDGE FLOOR QUANTITY, SEE SHEET S-10.

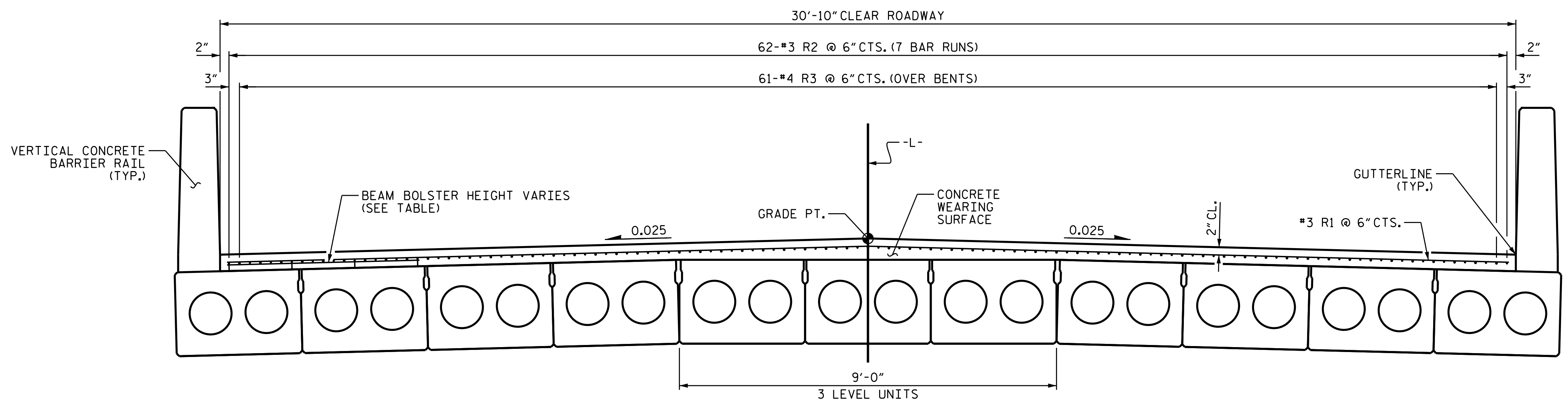
**SPLICE LENGTH CHART**

BAR SIZE	EPOXY COATED
#3	1'-3"

**BEAM BOLSTER HEIGHT**

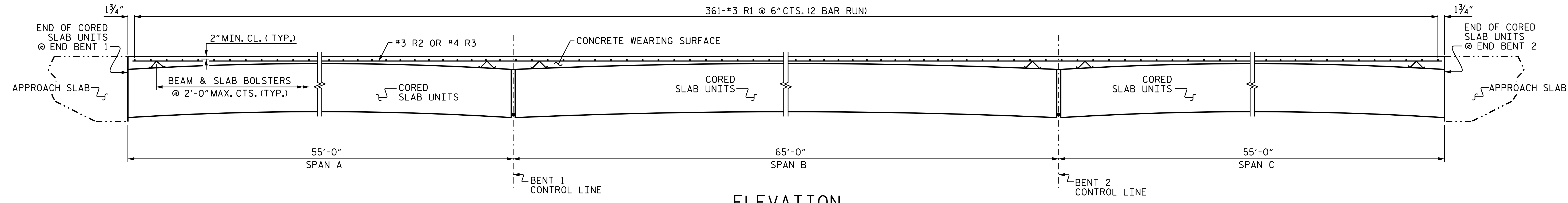
SPAN	AT $\bar{C}$ BEARINGS		AT MID-SPAN	
	GUTTERS	GRADE PT.	GUTTERS	GRADE PT.
A OR C	1 3/4"	3"	3/4" **	2"
B	1 3/4"	3"	1"	2 1/4"

\*\* USE SLAB BOLSTER

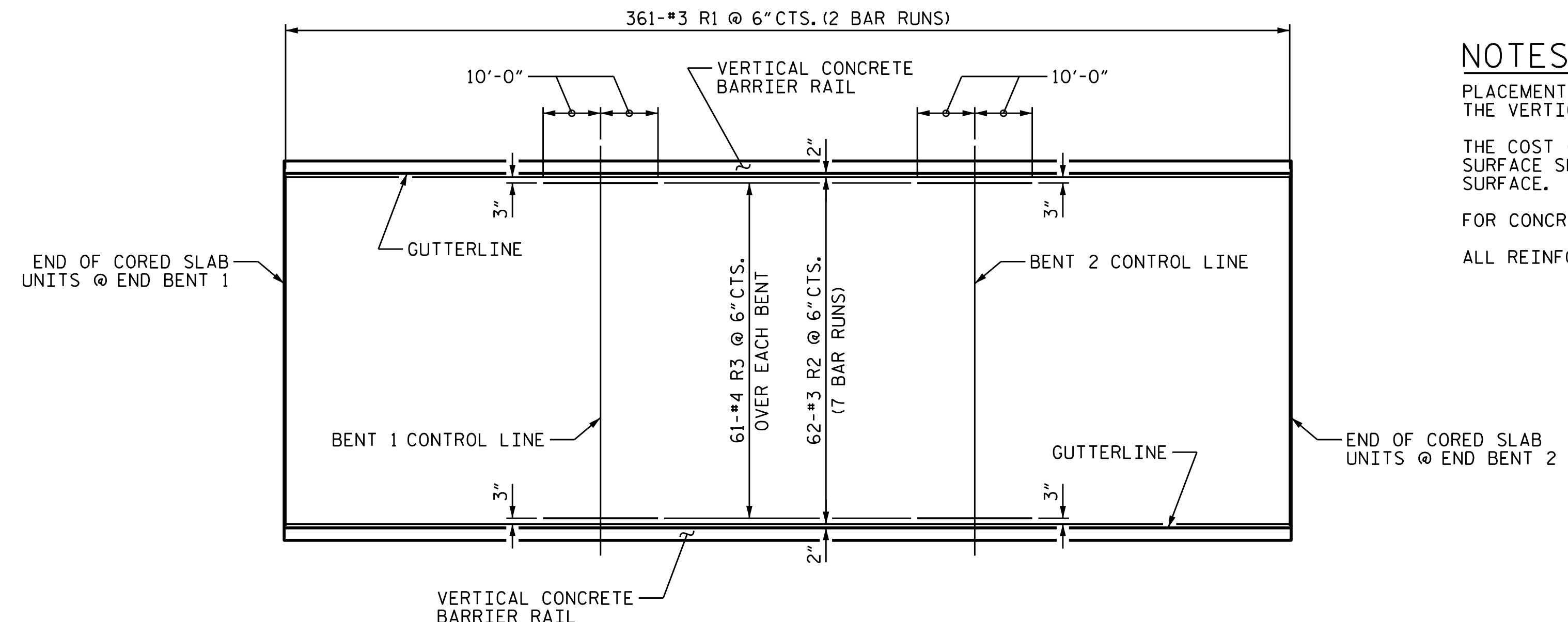


**REINFORCING STEEL FOR CONCRETE WEARING SURFACE**

BEAM AND SLAB BOLSTER HEIGHTS ARE BASED UPON PREDICTED FINAL CAMBER AND THEORETICAL GRADE LINE ELEVATIONS AND VARY BETWEEN  $\bar{C}$  BEARING AND MID-SPAN FOR ALL SPANS.



**ELEVATION**



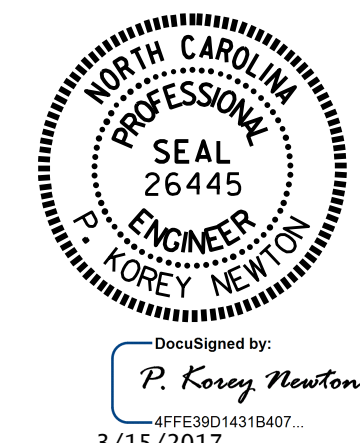
**PLAN**

**NOTES:**

- PLACEMENT OF THE CONCRETE WEARING SURFACE SHALL OCCUR AFTER CASTING THE VERTICAL CONCRETE BARRIER RAILS.
- THE COST OF THE REINFORCING STEEL 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.
- ALL REINFORCING STEEL FOR THE CONCRETE WEARING SURFACE SHALL BE EPOXY COATED.

PROJECT NO. B-4771  
 JOHNSTON COUNTY  
 STATION: 16+82.00 -L-

SHEET 4 OF 5



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
 CONCRETE WEARING SURFACE DETAILS

DRAWN BY : P. K. NEWTON DATE : 12/7/16  
 CHECKED BY : H. A. LOCKLEAR DATE : 12/12/16  
 DESIGN ENGINEER OF RECORD : P. K. NEWTON DATE : 1/12/17

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NO.	REVISIONS		NO.	REVISIONS		SHEET NO.
	BY:	DATE:		BY:	DATE:	
1			3			S-9
2			4			TOTAL SHEETS 20