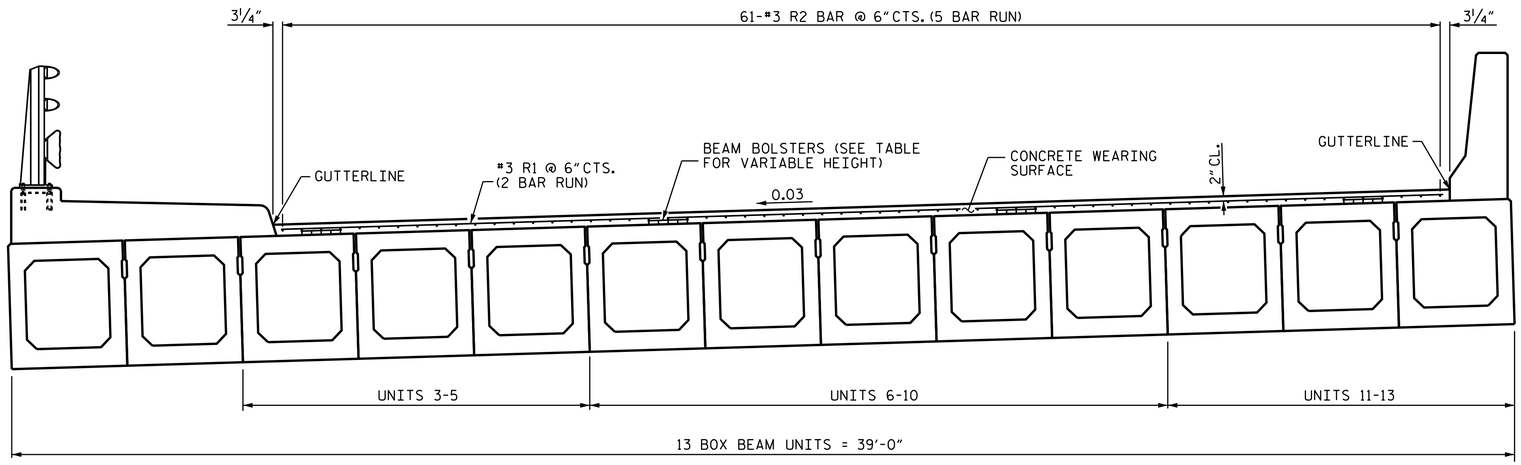
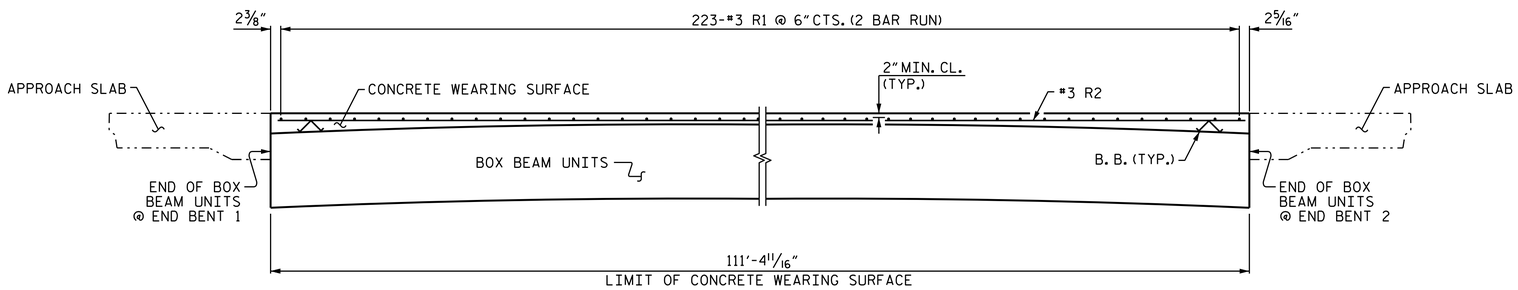
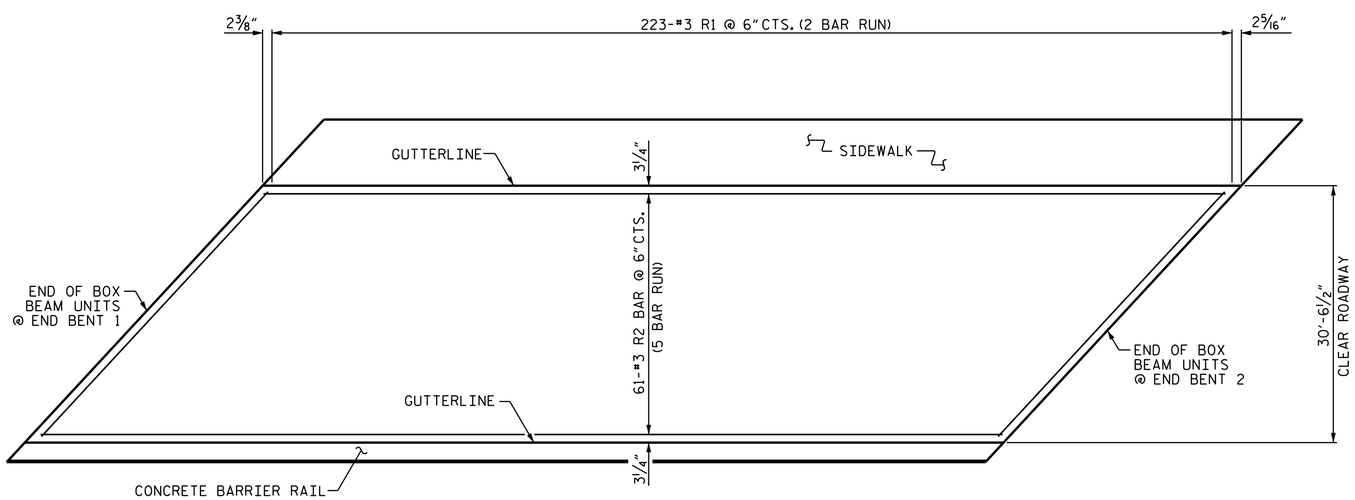


REINFORCING STEEL AND BEAM BOLSTER HEIGHTS

BEAM AND SLAB BOLSTER HEIGHTS ARE BASED ON PREDICTED FINAL CAMBER AND THEORETICAL GRADE LINE ELEVATIONS AND VARY BETWEEN ℄ BEARING AND MID-SPAN.



ELEVATION



PLAN

BILL OF MATERIAL

CONCRETE WEARING SURFACE

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ R1	446	#3	STR	21'-3"	3564
✱ R2	305	#3	STR	23'-3"	2666

✱ EPOXY COATED REINF. STEEL = 6,230 LBS

CONCRETE WEARING SURFACE = 3,402 SQ. FT.

FOR GROOVING BRIDGE FLOOR QUANTITY, SEE SHEET S-54.

SPLICE LENGTH CHART

BAR SIZE	EPOXY COATED
#3	1'-3"

BEAM BOLSTER HEIGHT

LOCATION	UNITS 1-5	UNITS 6-10	UNITS 11-13
℄ BRG. @ END BENT 1	1¾"	1¾"	1¾"
MIDSPAN	1¾"	¾" ✱✱	1¼"
℄ BRG. @ END BENT 2	3"	2½"	2"

✱✱ USE SLAB BOLSTER

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE CONCRETE WEARING SURFACE THICKNESS WILL VARY DIFFERENTLY ALONG EACH SIDE. THE BEAM BOLSTER HEIGHTS SHOWN IN THE TABLE ONLY REFLECT THE ESTIMATED REQUIREMENTS AT THOSE LOCATIONS. OTHER BEAM BOLSTER HEIGHTS MIGHT BE REQUIRED TO MAINTAIN THE PROPER CLEARANCES, ETC.

NOTES:

PLACEMENT OF THE CONCRETE WEARING SURFACE SHALL OCCUR AFTER CASTING CONCRETE BARRIER RAIL AND SIDEWALK. 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. U-3615B
GUILFORD COUNTY
STATION: 233+87.56 -L-

NORTH CAROLINA PROFESSIONAL SEAL 16301 ENGINEER TING HSIUNG FANG

DocuSigned by: Ting H. Fang
E72088400977435...
12/3/2014

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE

CONCRETE WEARING SURFACE DETAILS

LEFT LANE

REVISIONS							
NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.	S-55
1			3			TOTAL SHEETS	91
2			4				

STR. #2

DRAWN BY : P. K. NEWTON DATE : 11/6/14
CHECKED BY : T. H. FANG DATE : 11/10/14
DESIGN ENGINEER OF RECORD: P. K. NEWTON DATE : 11/12/14

03-DEC-2014 11:41
K:\TIPProjects-U\U3615b\Structures\Plans\Str2\Finalplans\u3615b2_sd_sup.dgn
ttfang