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"			

GROOVING BRIDGE FLOORS

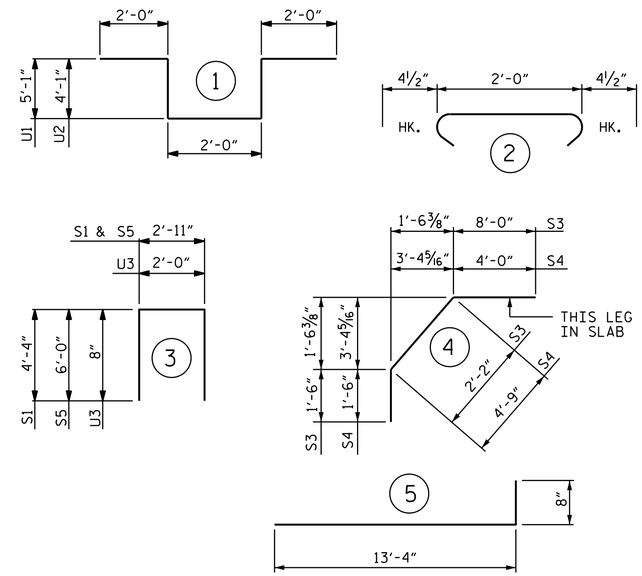
STAGE I		
APPROACH SLABS	1,400	SQ.FT.
BRIDGE DECK	6,250	SQ.FT.
TOTAL	7,650	SQ.FT.
STAGE II		
APPROACH SLABS	1,946	SQ.FT.
BRIDGE DECK	7,813	SQ.FT.
TOTAL	9,759	SQ.FT.
TOTAL		
APPROACH SLABS	3,346	SQ.FT.
BRIDGE DECK	14,063	SQ.FT.
TOTAL	17,409	SQ.FT.

SUPERSTRUCTURE BILL OF MATERIAL

		CLASS AA CONCRETE (CU. YD.)					REINFORCING STEEL (LBS)	EPOXY COATED REINFORCING STEEL (LBS)
STAGE I	POUR NO.	#1	#2	#3	#4	TOTAL		
	DECK	76.0	166.1	116.6	94.3	453.0	37,460	41,660
	✱✱ SIDEWALK					30.8		2,281
	TOTAL					483.8		43,941
STAGE II	POUR NO.	#5	#6	#7	#9	TOTAL		
	DECK	73.6	160.4	112.4	89.0	435.4	35,037	41,519
	✱✱ SIDEWALK					30.8		2,281
	CLOSURE POUR #8					16.4		
	TOTAL					482.6		43,800
	✱✱ CONCRETE MEDIAN					34.2		2,028
	TOTALS					1,000.6	72,497	89,769

✱✱ QUANTITIES FOR SIDEWALK & CONCRETE MEDIAN ON APPROACH SLABS ARE INCLUDED.

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

SIDEWALK (FOR ONE SIDEWALK, 2 REQ'D)

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ B8	50	4	STR	27'-8"	924
✱ B9	8	4	STR	27'-9"	148
✱ G1	209	4	STR	6'-3"	873
✱ G2	50	4	STR	5'-0"	167
✱ U3	76	4	3	3'-4"	169
✱ EPOXY COATED REINFORCING STEEL					2,281 LBS
CLASS AA CONCRETE					30.8 CY

CONCRETE MEDIAN (FOR STAGES I & II)

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ B10	36	4	STR	29'-2"	701
✱ B11	18	4	STR	28'-3"	340
✱ B12	6	4	STR	17'-6"	70
✱ G3	164	4	STR	8'-0"	876
✱ G4	3	4	STR	7'-9"	16
✱ G5	3	4	STR	6'-8"	13
✱ G6	3	4	STR	5'-5"	11
✱ EPOXY COATED REINFORCING STEEL					2,028 LBS
CLASS AA CONCRETE					34.2 CY

BILL OF MATERIAL

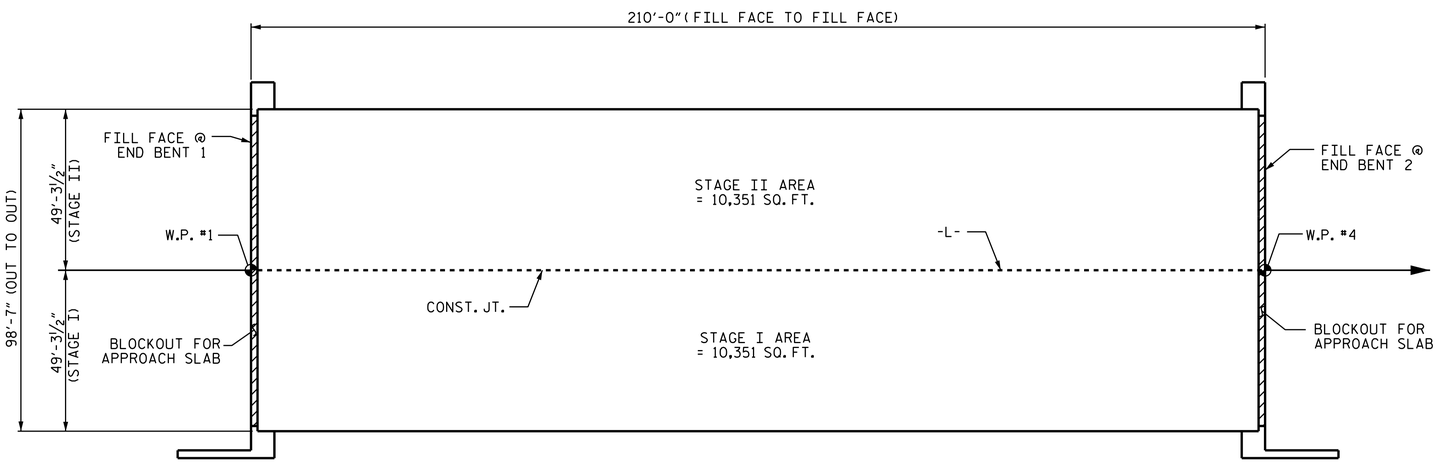
STAGE I

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ A1	416	#5	STR	48'-11"	21224
A2	416	#5	STR	48'-11"	21224
✱ B1	66	#4	STR	29'-0"	1279
✱ B2	66	#7	STR	55'-0"	7420
✱ B3	66	#7	STR	22'-6"	3035
✱ B4	33	#4	STR	30'-0"	661
✱ B5	132	#7	STR	11'-6"	3103
B6	236	#5	STR	53'-8"	13210
✱ D1	832	#5	STR	3'-7"	3110
H1	28	#4	5	14'-0"	262
K1	20	#4	STR	27'-10"	372
K2	10	#4	STR	6'-5"	43
K3	10	#4	STR	7'-5"	50
K4	20	#4	STR	7'-11'	106
K5	10	#4	STR	6'-11"	46
K6	2	#4	STR	4'-9"	6
K7	2	#4	STR	5'-3"	7
K8	4	#4	STR	5'-6"	15
K9	2	#4	STR	5'-0"	7
K10	8	#4	STR	2'-8"	14
K11	20	#4	STR	5'-3'	70
K12	60	#4	STR	7'-5"	297
K13	20	#4	STR	6'-11"	92
K14	20	#4	STR	24'-0"	321
S1	74	#4	3	11'-7"	573
S2	260	#4	2	2'-9"	478
✱ S3	76	#4	4	11'-8"	592
✱ S4	74	#4	4	10'-3"	507
S5	6	#4	3	14'-11"	60
✱ U1	50	#4	1	16'-2"	540
✱ U2	20	#4	1	14'-2"	189
V2	52	#4	STR	6'-0"	208
				REINFORCING STEEL	= 37,460 LBS
				✱ EPOXY COATED REINF. STEEL	= 41,660 LBS

STAGE II

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ A3	416	#5	STR	46'-11"	20357
A4	416	#5	STR	46'-11"	20357
✱ B1	64	#4	STR	29'-0"	1240
✱ B2	64	#7	STR	55'-0"	7195
✱ B3	62	#7	STR	22'-6"	2851
✱ B4	32	#4	STR	30'-0"	641
✱ B5	126	#7	STR	11'-6"	2962
B6	216	#5	STR	53'-8"	12090
✱ B7	24	#5	STR	51'-0"	1277
✱ D1	832	#5	STR	3'-7"	3110
K6	2	#4	STR	4'-9"	6
K7	2	#4	STR	5'-3"	7
K8	4	#4	STR	5'-6"	15
K9	2	#4	STR	5'-0"	7
K10	8	#4	STR	2'-8"	14
K15	4	#4	STR	2'-7"	7
K16	6	#4	STR	4'-1"	16
K21	20	#4	STR	26'-11"	360
K22	10	#4	STR	6'-0"	40
K23	10	#4	STR	7'-0"	47
K24	20	#4	STR	7'-6"	100
K25	10	#4	STR	6'-6"	43
K26	20	#4	STR	4'-10"	65
K27	60	#4	STR	7'-0"	281
K28	20	#4	STR	6'-6"	87
K29	20	#4	STR	23'-0"	307
S1	80	#4	3	11'-7"	619
S2	260	#4	2	2'-9"	478
✱ S3	80	#4	4	11'-8"	623
✱ S4	78	#4	4	10'-3"	534
S5	6	#4	3	14'-11"	60
✱ U1	50	#4	1	16'-2"	540
✱ U2	20	#4	1	14'-2"	189
V2	8	#4	STR	6'-0"	32
				REINFORCING STEEL	= 35,037 LBS
				✱ EPOXY COATED REINF. STEEL	= 41,519 LBS

QUANTITIES FOR CLOSURE POUR INCLUDED WITHIN SPAN TOTALS



LAYOUT FOR COMPUTING AREA OF REINFORCED CONCRETE DECK SLAB (SQ. FT. = 20,702)

PROJECT NO. U-3615B
GUILFORD COUNTY
STATION: 238+33.00 -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 BILL OF MATERIAL

DRAWN BY : OT NGUYEN	DATE : 9/10
CHECKED BY : E.C. LOCKLER	DATE : 10/10
DESIGN ENGINEER OF RECORD: T. H. FANG	DATE : 1-7-14

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-28
1			3			TOTAL SHEETS
2			4			91

STR. #1 STD. NO. BOM1

03-DEC-2014 11:04
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tfang