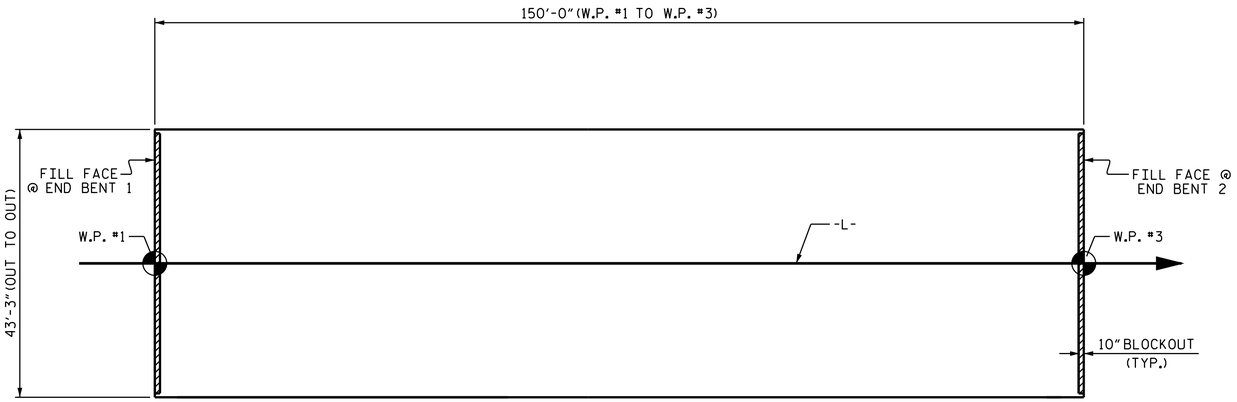
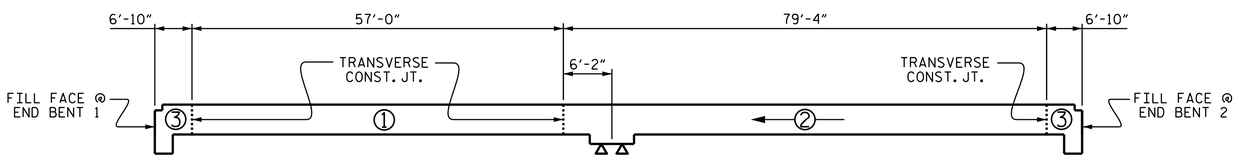
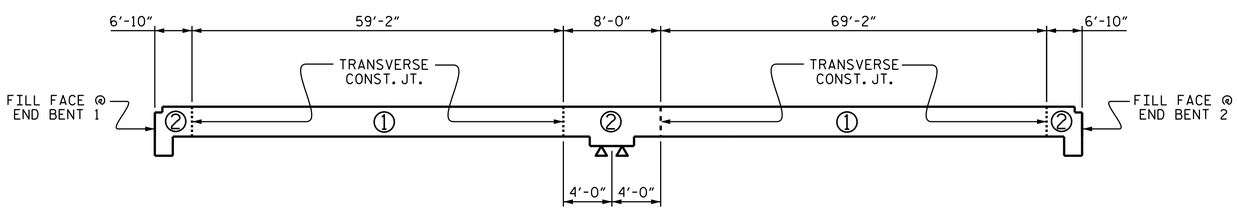


LAYOUT FOR COMPUTING AREA OF REINFORCED CONCRETE DECK SLAB (SQ. FT. 6,488)



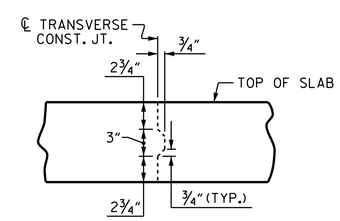
DECK POURING SEQUENCE

(#) = INDICATES THE NUMBER AND DIRECTION OF POUR.



OPTIONAL DECK POURING DETAIL

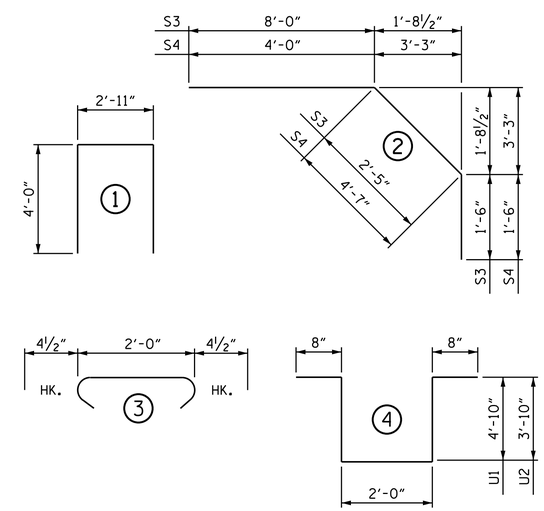
POUR ② SHALL NOT BE STARTED UNTIL BOTH ADJACENT POUR ① REACH A MINIMUM OR 3000 PSI



TRANSVERSE CONSTRUCTION JOINT DETAIL

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

BAR TYPE



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱A1	297	#5	STR	42'-11"	13294
A2	297	#5	STR	42'-11"	13294
✱B1	6	#5	STR	51'-7"	323
✱B2	226	#5	STR	16'-0"	3771
✱B3	58	#4	STR	16'-6"	639
✱B4	57	#5	STR	55'-0"	3270
✱B5	56	#5	STR	22'-6"	1,314
✱B6	58	#4	STR	20'-0"	775
B7	156	#5	STR	50'-10"	8271
K1	20	#4	STR	22'-4"	298
K2	8	#4	STR	6'-6"	35
K3	32	#4	STR	7'-0"	150
K4	32	#4	STR	8'-0"	171
K5	8	#4	STR	5'-2"	28
K6	8	#4	STR	2'-5"	13
K7	8	#4	STR	2'-11"	16
K8	4	#4	STR	2'-2"	6
K9	10	#4	STR	19'-1"	127
S1	120	#4	3	2'-9"	220
S2	64	#4	1	10'-11"	467
✱S3	68	#4	2	11'-11"	541
✱S4	64	#4	2	10'-1"	431
U1	24	#4	4	13'-0"	208
U2	8	#4	4	11'-0"	59
REINFORCING STEEL				LBS.	23,363
✱ EPOXY COATED REINFORCING STEEL				LBS.	24,358

SPLICE CHART

BAR SIZE	EPOXY COATED	UNCOATED
#4	2'-0"	1'-9"
#5	2'-6"	2'-2"

SUPERSTRUCTURE BILL OF MATERIAL

	CLASS AA CONCRETE	REINFORCING STEEL	EPOXY COATED REINFORCING STEEL
	(C.Y.)	(LBS.)	(LBS.)
POUR #1	75.0	23,363	24,358
POUR #2	116.8		
POUR #3	61.0		
TOTAL ✱✱	252.8	23,363	24,358

✱✱ QUANTITIES FOR CONCRETE BARRIER RAIL ARE NOT INCLUDED

GROOVING BRIDGE FLOORS

APPROACH SLABS	1,788	SQ. FT.
BRIDGE DECK	5,476	SQ. FT.
TOTAL	7,264	SQ. FT.

PROJECT NO. B-4766
IREDELL COUNTY
STATION: 16+28.00-L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE

BILL OF MATERIAL

NORTH CAROLINA PROFESSIONAL SEAL 28950 ENGINEER HYER P. KIM

DocuSigned by: Hyer Kim 07A7857 1E44145F...
4/22/2016

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SHEET NO. S-17
TOTAL SHEETS 26

DRAWN BY : J.K. BOWLES DATE : 8/31/15
CHECKED BY : N. D'AIUTO DATE : 9/16/15
DESIGN ENGINEER OF RECORD: H. P. KIM DATE : 1/26/16

20-APR-2016 09:26
R:\Structures\Plans\B-4766_SD_BM_01.dgn
vpatel