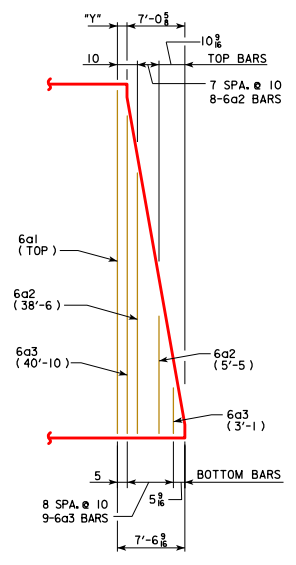
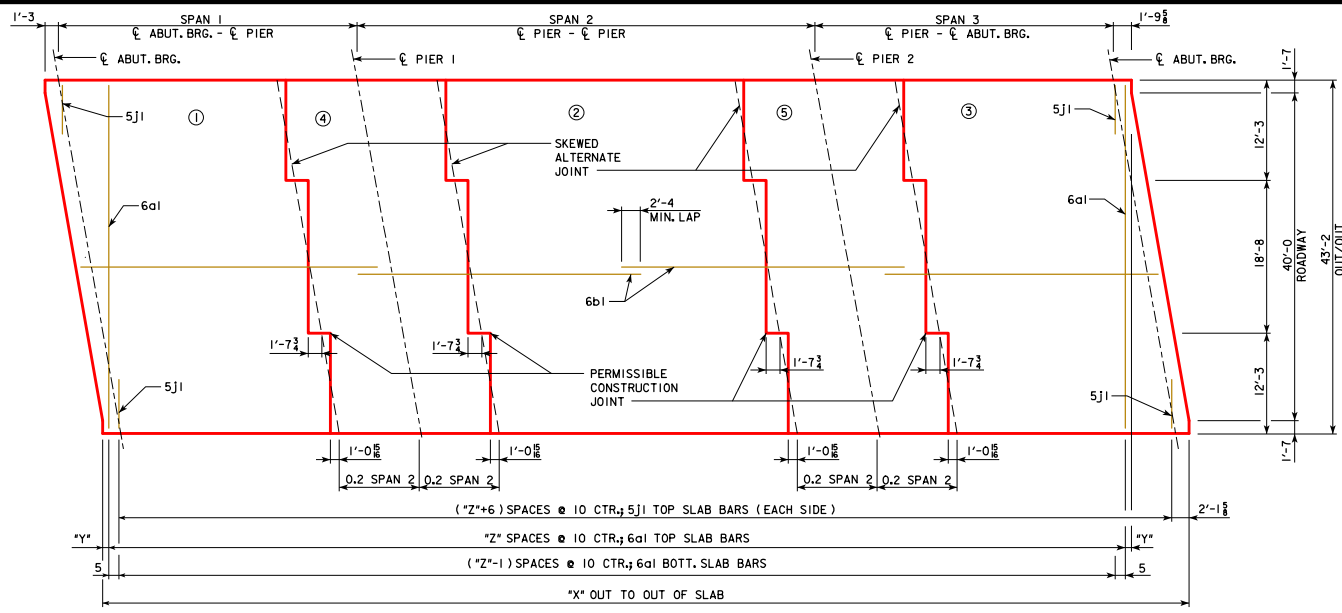


REVISED 07-2015 - CHANGED NOTE 1, CONCRETE PLACEMENT NOTE TO ACCOUNT FOR THE POSSIBLE ADDITION OF A RETARDING ADMIXTURE TO THE CONCRETE.
 REVISED 10-2016 - UPDATED ESTIMATED QUANTITY STRUCTURAL STEEL WEIGHT TO INCLUDE SHEAR STUDS AND DIAPHRAGMS FOR ALL BRIDGE LENGTHS.
 REVISED 08-2018 - UPDATED ESTIMATED QUANTITY STRUCTURAL STEEL WEIGHT FOR DIAPHRAGM UPDATES FOR BRIDGE LENGTHS 200'-0" TO 340'-0". UPDATED BRIDGE ENGINEER SIGNATURE.



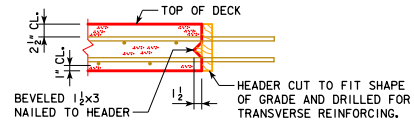
END OF SLAB REINFORCING
(TYPICAL EACH END OF DECK)

REINFORCEMENT DIMENSIONS	160'-0"	180'-0"	200'-0"	220'-0"	240'-0"	260'-0"	280'-0"	300'-0"	320'-0"	340'-0"
ABUTMENT BEARINGS	163'-0"	183'-0"	203'-0"	223'-0"	243'-0"	263'-0"	283'-0"	303'-0"	323'-0"	343'-0"
X (FT.-IN.)	5 5/8	5 5/8	5 5/8	5 5/8	5 5/8	5 5/8	5 5/8	5 5/8	5 5/8	5 5/8
Y (IN.)	186	210	234	258	282	306	330	354	378	402
Z (SPACES)										

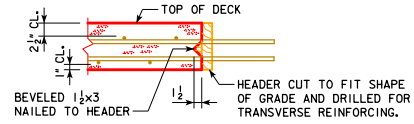
CONCRETE PLACEMENT DIAGRAM SHOWING SLAB REINFORCING
(RIGHT AHEAD SKEW SHOWN, LEFT AHEAD SKEW SIMILAR)

CONCRETE PLACEMENT QTYs. (SUPERSTRUCTURE PLUS INTEGRAL ABUTMENTS)	160'-0"	180'-0"	200'-0"	220'-0"	240'-0"	260'-0"	280'-0"	300'-0"	320'-0"	340'-0"
SLAB, AND ABUT DIAPHRAGM, SECTION 1 & 3	114.4	124.4	136.7	148.5	158.5	170.3	180.3	190.3	200.4	213.1
SLAB, SECTION 2	42.1	47.4	52.7	58.0	63.2	68.7	74.0	79.2	84.5	89.8
SLAB, SECTION 4 & 5	56.1	63.2	70.2	77.3	84.3	91.6	98.6	105.7	112.7	119.8
ABUTMENT WINGS	7.2	7.2	7.2	7.6	7.6	7.6	7.6	7.6	7.6	13.9
ABUTMENT FOOTINGS	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	43.3
TOTAL	255.3	277.7	302.3	326.9	349.1	373.7	396.0	418.3	440.7	479.9

ESTIMATED QTYs. (SUPERSTRUCTURE PLUS INTEGRAL ABUTMENTS)	160'-0"	180'-0"	200'-0"	220'-0"	240'-0"	260'-0"	280'-0"	300'-0"	320'-0"	340'-0"
NO. OF STEEL H-PILES FOR TWO ABUTMENTS (4# 10 X 57) AND DESIGN BEARING REQUIRED PER PILE	NO.	16	16	16	18	18	18	20	20	24
STRUCTURAL CONCRETE, (BRIDGE)	CY	255.3	277.7	302.3	326.9	349.1	373.7	396.0	418.3	440.7
REINFORCING STEEL EPOXY COATED	LB	73,973	81,196	88,839	96,125	103,648	110,996	118,789	126,020	133,520
BARRIER RAILS	LF	354.1	394.1	434.1	474.1	514.1	554.1	594.1	634.1	674.1
STRUCTURAL STEEL	LB	118,368	155,475	191,282	233,753	293,932	336,532	390,458	471,940	523,061



LONGITUDINAL SLAB CONSTRUCTION JOINT



TRANSVERSE SLAB CONSTRUCTION JOINT

BRIDGE LENGTH	SPAN LENGTHS		
	SPAN 1	SPAN 2	SPAN 3
160'-0"	48'-0"	64'-0"	48'-0"
180'-0"	54'-0"	72'-0"	54'-0"
200'-0"	60'-0"	80'-0"	60'-0"
220'-0"	66'-0"	88'-0"	66'-0"
240'-0"	72'-0"	96'-0"	72'-0"
260'-0"	78'-0"	104'-0"	78'-0"
280'-0"	84'-0"	112'-0"	84'-0"
300'-0"	90'-0"	120'-0"	90'-0"
320'-0"	96'-0"	128'-0"	96'-0"
340'-0"	102'-0"	136'-0"	102'-0"

NOTES:

- CONCRETE DECK SHALL BE PLACED IN SECTIONS AND SEQUENCES INDICATED. ALTERNATE PROCEDURES FOR PLACING DECK CONCRETE MAY BE SUBMITTED FOR APPROVAL TOGETHER WITH A STATEMENT OF THE PROPOSED METHOD AND EVIDENCE THAT THE CONTRACTOR POSSESSES THE NECESSARY EQUIPMENT AND FACILITIES TO ACCOMPLISH THE REQUIRED RESULTS. FOR APPROVED ALTERNATE PROCEDURES THE ENGINEER SHALL DETERMINE IF A RETARDING ADMIXTURE IS REQUIRED TO MAINTAIN PLASTICITY OF THE CONCRETE DECK DURING PLACEMENT.
- WEIGHT OF STRUCTURAL STEEL SHOWN ON THIS SHEET INCLUDES: BEAMS, DIAPHRAGMS, SPLICES, SHEAR STUDS, BEARINGS, WELDS AND BOLT HARDWARE.
- QUANTITY OF STRUCTURAL STEEL SHOWN ON THIS SHEET IS TABULATED FOR BENT PLATE DIAPHRAGM OPTION. PAYMENT FOR STRUCTURAL STEEL WILL BE BASED ON THE QUANTITIES SHOWN. THE CONTRACTOR MAY CHOOSE TO PROVIDE ROLLED SHAPE DIAPHRAGMS AT NO ADDITIONAL COST.
- QUANTITY OF STRUCTURAL STEEL SHOWN ON THIS SHEET IS BASED ON THE USE OF 5" HIGH SHEAR STUDS. CONTRACTOR WILL BE PAID ON AMOUNT SHOWN, BUT IS REQUIRED TO ADJUST HEIGHT OF STUDS AS REQUIRED PER "BEAM PLAN AND ELEVATION" SHEET.

08-2018 LATEST REVISION DATE APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES JUNE, 2010
	SUPERSTRUCTURE QUANTITIES 10° SKEW
	RS40-032-10