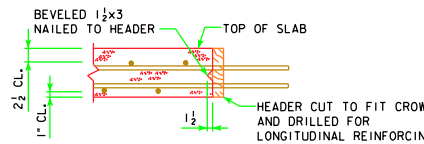
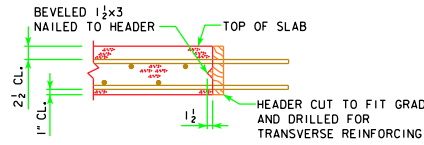


REINFORCEMENT DIMENSIONS ℓ-ℓ ABUTMENT BEARINGS	160'-0"	180'-0"	200'-0"	220'-0"	240'-0"	260'-0"	280'-0"	300'-0"	320'-0"	340'-0"
X (FT.-IN.)	164'-2 3/8"	184'-2 3/8"	204'-2 3/8"	224'-2 3/8"	244'-2 3/8"	264'-2 3/8"	284'-2 3/8"	304'-2 3/8"	324'-2 3/8"	344'-2 3/8"
Y (IN.)	5 7/16"	5 7/16"	5 7/16"	5 7/16"	5 7/16"	5 7/16"	5 7/16"	5 7/16"	5 7/16"	5 7/16"
Z (SPACES)	148	172	196	220	244	268	292	316	340	364

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	CY 129.1	CY 139.4	CY 152.6	CY 165.4	CY 175.4	CY 188.0	CY 198.1	CY 208.2	CY 218.4	CY 232.4
SLAB, SECTION 2	CY 42.1	CY 47.4	CY 52.7	CY 58.0	CY 63.2	CY 68.7	CY 74.0	CY 79.2	CY 84.5	CY 89.8
SLAB, SECTION 4 & 5	CY 56.1	CY 63.2	CY 70.2	CY 77.3	CY 84.3	CY 91.6	CY 98.6	CY 105.7	CY 112.7	CY 119.8
ABUTMENT WINGS	CY 7.2	CY 7.2	CY 7.2	CY 7.6	CY 7.6	CY 7.6	CY 7.6	CY 7.6	CY 7.6	CY 13.9
ABUTMENT FOOTINGS	CY 49.5	CY 49.5	CY 49.5	CY 49.5	CY 49.5	CY 49.5	CY 49.5	CY 49.5	CY 49.5	CY 57.2
TOTAL	CY 284.0	CY 306.7	CY 332.2	CY 357.8	CY 380.0	CY 405.4	CY 427.8	CY 450.2	CY 472.7	CY 513.1

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 (HP 10 X 57)	NO. 18	NO. 18	NO. 18	NO. 18	NO. 20	NO. 20	NO. 20	NO. 20	NO. 22	NO. 26
STRUCTURAL CONCRETE, (BRIDGE)	CY 284.0	CY 306.7	CY 332.2	CY 357.8	CY 380.0	CY 405.4	CY 427.8	CY 450.2	CY 472.7	CY 513.1
REINFORCING STEEL EPOXY COATED	LB 77,655	LB 84,892	LB 92,578	LB 99,966	LB 107,824	LB 115,103	LB 122,681	LB 130,291	LB 137,296	LB 147,428
BARRIER RAILS	LF 356.5	LF 396.5	LF 436.5	LF 476.5	LF 516.5	LF 556.5	LF 596.5	LF 636.5	LF 676.5	LF 734.0
STRUCTURAL STEEL	LB 119,156	LB 156,264	LB 190,725	LB 234,340	LB 293,585	LB 337,433	LB 389,786	LB 473,925	LB 523,830	LB 575,086



SPAN LENGTHS	SPAN 1	SPAN 2	SPAN 3
BRIDGE LENGTH	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:
- ROADWAY SLAB SHALL BE PLACED IN SECTIONS AND SEQUENCES INDICATED. ALTERNATE PROCEDURES FOR PLACING SLAB 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.
 - 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 CHANNEL 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.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES JUNE, 2010	SUPERSTRUCTURE QUANTITIES 45° SKEW	RS40-035-10