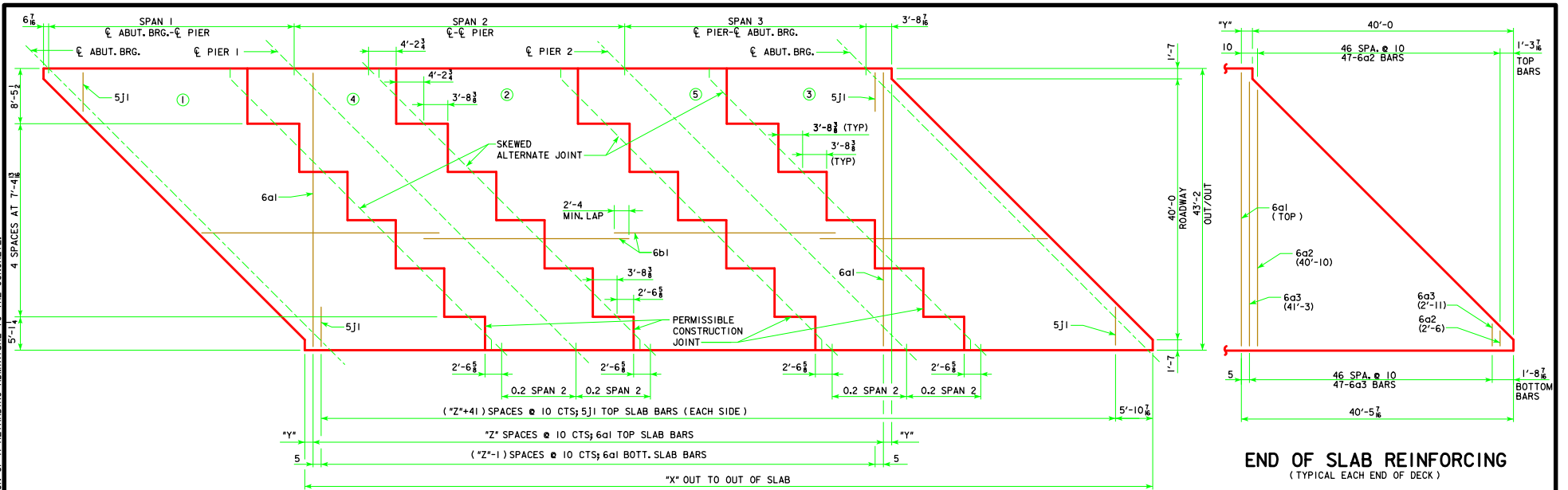


REVISED 07-2015 - CHANGED NOTE 1, CONCRETE PLACEMENT. NOTE TO ACCOUNT FOR THE POSSIBLE ADDITION OF A RETARDING ADMIXTURE TO THE CONCRETE.

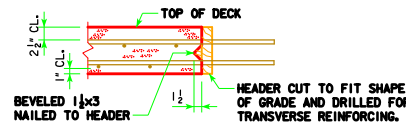


REINFORCEMENT DIMENSIONS	160'-0"	180'-0"	200'-0"	220'-0"	240'-0"	260'-0"	280'-0"	300'-0"	320'-0"	340'-0"
X (FT.-IN.)	164'-2 3/4"	184'-2 3/4"	204'-2 1/4"	224'-2 1/4"	244'-2 1/4"	264'-2 1/4"	284'-2 1/4"	304'-2 1/4"	324'-2 1/4"	344'-2 1/4"
Y (IN.)	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"
Z (SPACES)	148	172	196	220	244	268	292	316	340	364

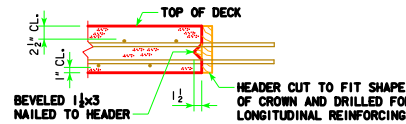
CONCRETE PLACEMENT DIAGRAM SHOWING SLAB REINFORCING
(RIGHT AHEAD SKEW SHOWN, LEFT AHEAD SKEW SIMILAR)

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	139.4	152.6	165.4	175.4	188.0	198.1	208.2	218.4	232.4
SLAB, SECTION 2	CY 42.1	47.4	52.7	58.0	63.2	68.7	74.0	79.2	84.5	89.8
SLAB, SECTION 4 & 5	CY 56.1	63.2	70.2	77.3	84.3	91.6	98.6	105.7	112.7	119.8
ABUTMENT WINGS	CY 7.2	7.2	7.2	7.6	7.6	7.6	7.6	7.6	7.6	13.9
ABUTMENT FOOTINGS	CY 49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	57.2
TOTAL	CY 284.0	306.7	332.2	357.8	380.0	405.4	427.8	450.2	472.7	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	18	18	18	20	20	20	20	22	26
STRUCTURAL CONCRETE, (BRIDGE)	CY 284.0	306.7	332.2	357.8	380.0	405.4	427.8	450.2	472.7	513.1
REINFORCING STEEL EPOXY COATED	LB 77,655	84,892	92,578	99,966	107,824	115,103	122,681	130,291	137,296	147,428
BARRIER RAILS	LF 356.5	396.5	436.5	476.5	516.5	556.5	596.5	636.5	676.5	734.0
STRUCTURAL STEEL	LB 119,156	156,264	190,725	234,340	293,585	337,433	389,786	473,925	523,830	575,086



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 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 07-15 APPROVED BY BRIDGE ENGINEER <i>Thomas E. McQuinn</i>	IOWADOT Highway Division
	STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES JUNE, 2010
	SUPERSTRUCTURE QUANTITIES 45° SKEW RS40-035-10