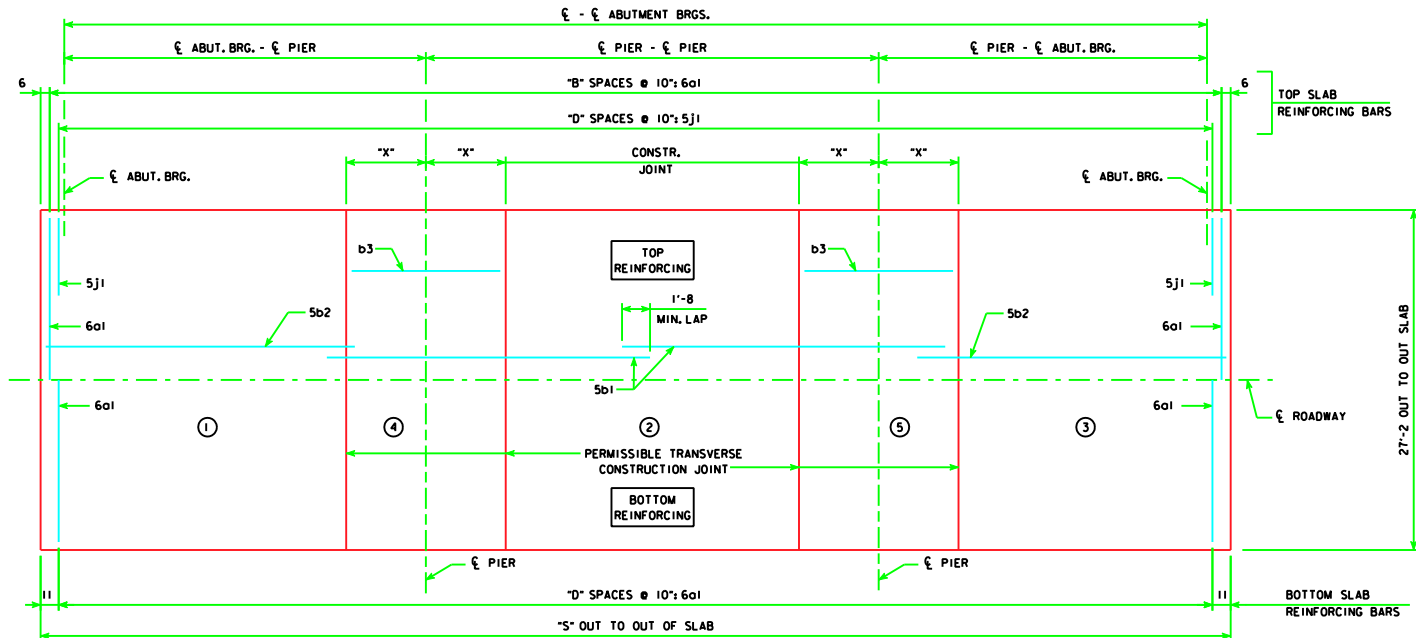




GENERAL DATA		℄-℄ ABUT. BRG.	138'-10	151'-4	163'-10	176'-4	188'-10	201'-4	213'-10	226'-4	243'-0
VERTICAL	TOP OF SLAB TO ABUT. CONSTR. JT. AT C.L. ABUT. BRG.	"U"	3'-8	3'-7 $\frac{1}{2}$	4'-2 $\frac{1}{2}$	4'-2 $\frac{1}{2}$	4'-8 $\frac{1}{2}$	4'-8 $\frac{1}{2}$	4'-9 $\frac{1}{2}$	4'-9 $\frac{1}{2}$	4'-9 $\frac{1}{2}$
CURVE	TOP OF SLAB TO PIER TOP AT C.L. PIER*	"U"	3'-6 $\frac{1}{2}$	3'-6 $\frac{1}{2}$	4'-1 $\frac{1}{2}$	4'-1 $\frac{1}{2}$	4'-7 $\frac{1}{2}$	4'-7 $\frac{1}{2}$	4'-7 $\frac{1}{2}$	4'-7 $\frac{1}{2}$	4'-7 $\frac{1}{2}$
STRAIGHT	TOP OF SLAB TO ABUT. CONSTR. JT. AT C.L. ABUT. BRG.	"U"	3'-8 $\frac{1}{2}$	3'-7 $\frac{1}{2}$	4'-2 $\frac{1}{2}$	4'-2 $\frac{1}{2}$	4'-3 $\frac{1}{2}$	4'-8 $\frac{1}{2}$	4'-9 $\frac{1}{2}$	4'-9 $\frac{1}{2}$	4'-9 $\frac{1}{2}$
GRADE	TOP OF SLAB TO PIER TOP AT C.L. PIER*	"U"	3'-6 $\frac{1}{2}$	3'-6 $\frac{1}{2}$	4'-1 $\frac{1}{2}$	4'-1 $\frac{1}{2}$	4'-2 $\frac{1}{2}$	4'-7 $\frac{1}{2}$	4'-7 $\frac{1}{2}$	4'-8 $\frac{1}{2}$	4'-8 $\frac{1}{2}$
D.L. PIER REACTION (D.L. + F.W.S.)		KIPS	290.2	313.8	357.4	382.2	407.2	486.5	514.4	542.4	569.7
L.L. PIER REACTION (HS25-44) NO IMPACT		KIPS	169.0	170.6	171.9	179.5	187.5	195.5	203.4	211.4	221.0
NO. OF SPACES FOR 601 BARS (TOP)		"B"	169	184	199	214	229	244	259	274	294
NO. OF SPACES FOR 601 BARS (BOTTOM) AND 5j1 BARS (TOP)		"D"	168	183	198	213	228	243	258	273	293
OUT TO OUT OF SLAB		"S"	141'-10	154'-4	166'-4	179'-4	191'-10	204'-4	216'-10	229'-4	246'-0
SLAB TRANSVERSE CONSTR. JT. DISTANCE FROM C.L. PIER		"X"	6'-7	7'-1	7'-7	8'-1	8'-8	9'-2	9'-8	10'-2	10'-2

CONCRETE PLACEMENT QUANT.		℄-℄ ABUT. BRG.	138'-10	151'-4	163'-10	176'-4	188'-10	201'-4	213'-10	226'-4	243'-0
SLAB INCL. HAUNCH, ABUT. DIAPHR., & WINGWALLS** , SECT. 1 & 3		C.Y.	76.1	81.2	90.0	95.3	100.5	113.5	119.0	124.6	137.0
SLAB INCLUDING HAUNCH, SECTION 2		C.Y.	28.4	30.7	33.0	35.3	37.5	39.9	42.1	44.5	44.5
SLAB INCLUDING HAUNCH & PIER DIAPHRAGM, SECTIONS 4 & 5		C.Y.	28.5	29.9	33.2	34.8	36.6	39.0	40.5	42.1	42.1
ABUTMENT WINGS		C.Y.	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
ABUTMENT FOOTINGS (w/ WOOD PILES)		C.Y.	20.6	20.4	20.4	20.4	20.4	-----	-----	-----	-----
ABUTMENT FOOTINGS (w/ STEEL H PILES)		C.Y.	21.6	21.6	21.6	21.6	21.6	29.4	29.4	29.4	29.4

ESTIMATED QUANTITIES		℄-℄ ABUT. BRG.	138'-10	151'-4	163'-10	176'-4	188'-10	201'-4	213'-10	226'-4	243'-0
(SUPERSTRUCTURE PLUS INTEGRAL ABUTMENTS)		C.Y.	140.2	149.0	163.4	172.6	181.8	199.6	208.8	218.4	230.8
STRUCTURAL CONCRETE SUPERSTRUCTURE (INCLUDES ABUT. WINGS)		C.Y.	20.6	20.4	20.4	20.4	20.4	-----	-----	-----	-----
STRUCTURAL CONCRETE ABUTMENTS (w/ STEEL H PILES)		C.Y.	21.6	21.6	21.6	21.6	21.6	29.4	29.4	29.4	29.4
PRETENSIONED PRESTRESSED CONCRETE BEAM, CENTER SPAN		NO.	4-A50	4-A55	4-B59	4-B63	4-B67	4-C71	4-C75	4-C80	4-C80
PRETENSIONED PRESTRESSED CONCRETE BEAM, END SPAN		NO.	8-A42	8-A46	8-B50	8-B55	8-B59	8-C63	8-C67	8-C71	8-C80
CONCRETE RAIL		L.F.	311.7	336.7	361.7	386.7	411.7	456.7	481.7	506.7	540.0
STRUCTURAL STEEL (w/ PILE BENT PIERS)		L.B.	2451	2451	2451	2451	2451	2388	2388	2388	2388
STRUCTURAL STEEL (w/ TEE PIERS)		L.B.	3168	3168	3168	3168	3168	3234	3234	3234	3234
REINFORCING STEEL (w/ WOOD PILES)		L.B.	42,114	45,008	48,260	51,654	54,484	-----	-----	-----	-----
REINFORCING STEEL (w/ STEEL H PILES)		L.B.	42,111	44,831	48,083	51,477	54,307	60,407	63,778	66,861	70,686
NO. OF WOOD PILES, TREATED FOR TWO ABUTMENTS		NO.	18	20	20	20	20	-----	-----	-----	-----
NO. OF STEEL H-PILES (HP 10 x 57) FOR TWO ABUTMENTS		NO.	8	10	10	10	10	14	16	16	16
PREBORED HOLES (w/ WOOD PILES)		L.F.	180	200	200	200	200	-----	-----	-----	-----
PREBORED HOLES (w/ STEEL H-PILES)		L.F.	80	100	100	100	100	140	160	160	160

* VALUES SHOWN ARE FOR FIXED PIERS ONLY AND ALLOW FOR $\frac{1}{4}$ INCH DEFLECTION OF THE 1 INCH NEOPRENE BEARING PAD, AT EXPANSION PIER LOCATIONS ADD $\frac{3}{4}$ INCHES TO "U" VALUES SHOWN.

** WINGWALLS APPLY ONLY TO BRIDGES USING "C" BEAMS.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER		
		STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE	
		PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES	
		HL93 SUPERSTRUCTURE	DECEMBER, 2006
SUPERSTRUCTURE DETAILS		H24-09-06	