

TABLE OF OPEN RAIL DIMENSIONS AND NUMBERS

E-E ABUT. BRG		138'-10"				151'-4"				163'-10"				176'-4"				188'-10"				E-E ABUT. BRG	
SKEW		0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°	SKEW	
DIMENSION OR NUMBER	L (FT.-IN.)	155'-10	155'-11 1/4	156'-3 3/8	157'-0 1/2	168'-4	168'-5 1/4	168'-9 3/8	169'-6 1/2	180'-10	180'-11 1/4	181'-3 3/8	182'-0 1/2	193'-4	193'-5 1/4	193'-9 3/8	194'-6 1/2	205'-10	205'-11 1/4	206'-3 3/8	207'-0 1/2	L (FT.-IN.)	DIMENSION OR NUMBER
	S (FT.-IN.)	141'-10	141'-11 1/4	142'-3 3/8	143'-0 1/2	154'-4	154'-5 1/4	154'-9 3/8	155'-6 1/2	166'-10	166'-11 1/4	167'-3 3/8	168'-0 1/2	179'-4	179'-5 1/4	179'-9 3/8	180'-6 1/2	191'-10	191'-11 1/4	192'-3 3/8	193'-0 1/2	S (FT.-IN.)	
	B	18	18	18	18	19	19	19	19	21	21	21	21	23	23	23	23	24	24	24	24	B	
	C (FT.-IN.)	7'-7 1/2	7'-8	7'-8 1/4	7'-8 3/4	7'-11	7'-11 1/4	7'-11 3/8	7'-11 1/2	7'-9	7'-9 1/4	7'-9 3/8	7'-9 1/2	7'-7 1/2	7'-7 3/4	7'-7 3/8	7'-8	7'-9	7'-10	7'-10 1/4	7'-10 1/2	C (FT.-IN.)	
	D (FT.-IN.)	137'-10	137'-11 1/4	138'-3 3/8	139'-0 1/2	150'-4	150'-5 1/4	150'-9 3/8	151'-6 1/2	162'-10	162'-11 1/4	163'-3 3/8	164'-0 1/2	175'-4	175'-5 1/4	175'-9 3/8	176'-6 1/2	187'-10	187'-11 1/4	188'-3 3/8	189'-0 1/2	D (FT.-IN.)	
	E	17	17	17	17	18	18	18	18	20	20	20	20	22	22	22	22	23	23	23	23	E	
F (FT.-IN.)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	F (FT.-IN.)	

TABLE OF OPEN RAIL DIMENSIONS AND NUMBERS

E-E ABUT. BRG		201'-4"				213'-10"				226'-4"				243'-0"				E-E ABUT. BRG	
SKEW		0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°	SKEW	
DIMENSION OR NUMBER	L (FT.-IN.)	228'-4	228'-4	228'-4	228'-4	240'-10	240'-10	240'-10	240'-10	253'-4	253'-4	253'-4	253'-4	270'-0	270'-0	270'-0	270'-0	L (FT.-IN.)	DIMENSION OR NUMBER
	S (FT.-IN.)	204'-4	204'-5 1/4	204'-9 3/8	205'-6 1/2	216'-10	216'-11 1/4	217'-3 3/8	218'-0 1/2	229'-4	229'-5 1/4	229'-9 3/8	230'-6 1/2	246'-0	246'-1 1/4	246'-5 3/8	247'-2 1/2	S (FT.-IN.)	
	B	26	26	26	26	27	27	27	27	29	29	29	29	31	31	31	31	B	
	C (FT.-IN.)	7'-8 1/2	7'-8 3/4	7'-8 3/4	7'-9	7'-10 1/2	7'-10 3/4	7'-10 3/4	7'-11 1/4	7'-9 1/4	7'-9 1/4	7'-9 3/8	7'-9 1/2	7'-9 1/2	7'-9 3/4	7'-9 3/8	7'-10 1/4	C (FT.-IN.)	
	D (FT.-IN.)	200'-4	200'-5 1/4	200'-9 3/8	201'-6 1/2	212'-10	212'-11 1/4	213'-3 3/8	214'-0 1/2	225'-4	225'-5 1/4	225'-9 3/8	226'-6 1/2	242'-0	242'-1 1/4	242'-5 3/8	243'-2 1/2	D (FT.-IN.)	
	E	25	25	25	25	26	26	26	26	28	28	28	28	30	30	30	30	E	
F (FT.-IN.)		5'-0	4'-11 1/4	4'-9 3/4	4'-4 1/2	5'-0	4'-11 1/4	4'-9 3/4	4'-4 1/2	5'-0	4'-11 1/4	4'-9 3/4	4'-4 1/2	5'-0	4'-11 1/4	4'-9 3/4	4'-4 1/2	F (FT.-IN.)	

OPEN RAIL NOTES:

CONSTRUCTION JOINT BETWEEN TOP OF WING AND RAIL IS ROUGHENED CONCRETE.

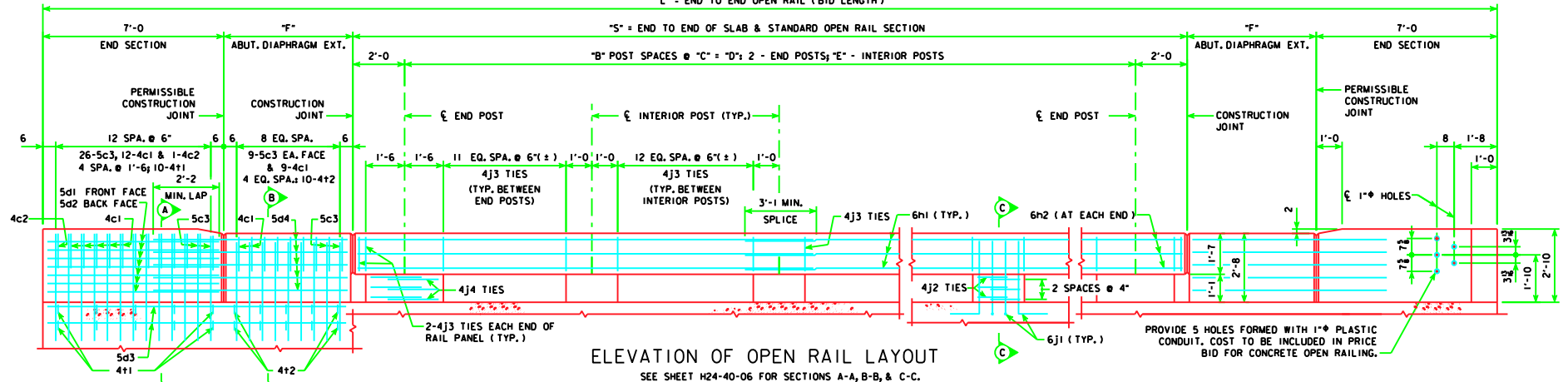
MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

THE CONCRETE OPEN RAIL IS TO BE BID ON A LINEAL FOOT BASIS MEASURED FROM END TO END OF RAIL. THE NUMBER OF LINEAL FEET OF OPEN RAIL INSTALLED WILL BE PAID FOR AT THE CONTRACT PRICE PER LINEAL FOOT. PRICE BID FOR "CONCRETE OPEN RAILING, TL-4" SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, EXCLUDING REINFORCING STEEL, AND ALL OF THE EQUIPMENT AND LABOR REQUIRED TO CONSTRUCT THE RAIL IN ACCORDANCE WITH THESE PLANS AND CURRENT SPECIFICATIONS.

ALL OPEN RAIL REINFORCING STEEL IS TO BE INCLUDED WITH THE SUPERSTRUCTURE REINFORCING STEEL.

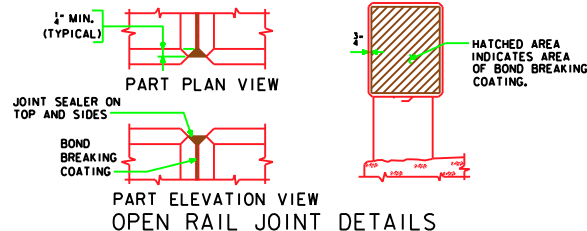
THE CAST-IN-PLACE OPEN RAIL SHALL USE CLASS C MIX. CLASS D CONCRETE IS NOT PERMITTED.

"L" = END TO END OPEN RAIL (BID LENGTH)



ELEVATION OF OPEN RAIL LAYOUT

SEE SHEET H24-40-06 FOR SECTIONS A-A, B-B, & C-C.



LATEST REVISION DATE	<i>Michael L. McQuinn</i> APPROVED BY BRIDGE ENGINEER		
		STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE	
		PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES	
		HL93 SUPERSTRUCTURE	DECEMBER, 2006 HS25 SUBSTRUCTURE
OPEN RAIL, TL-4 DETAILS		H24-39-06	
SHEET 1 OF 2			