

DSNR: RAS OPER: DRP SCALE: 1:200
 I:/1997/97362/001/BRIDGE/COWSKIN/MAINLINE/COWCOORD.DGN 10-22-2001 9:23:30 LAST REV: 3-25-2002 BY: drp

TABLE OF COORDINATES					
REFERENCE	POINT NO.	NORTH COORDINATE	EAST COORDINATE	STATION	OFFSET
Abut. No. 1 W. Bd. & Ext. Barrier (EWS)	1	511 483.310	491 944.823	15+958.523	17.520 Lt.
Abut. No. 1 W. Bd. & Brg. Ext. Barrier	2	511 483.816	491 945.061	15+958.894	17.940 Lt.
Abut. No. 1 W. Bd. Ext. Barrier End	2A	511 483.376	491 943.534	15+957.297	17.940 Lt.
Abut. No. 1 W. Bd. & Int. Barrier (EWS)	3	511 466.950	491 494.803	15+958.769	0.420 Lt.
Abut. No. 1 W. Bd. & Brg. Int. Barrier	4	511 467.054	491 950.163	15+959.144	0.420 Lt.
Abut. No. 1 W. Bd. Northern most Pile	5	511 483.022	491 945.303	15+958.906	17.110 Lt.
Abut. No. 1 W. Bd. Southern most Pile	6	511 467.524	491 950.020	15+959.137	0.912 Lt.
Abut. No. 1 E. Bd. & Ext. Barrier (EWS)	7	511 449.786	491 955.028	15+959.024	17.520 Rt.
Abut. No. 1 E. Bd. & Brg. Ext. Barrier End	7A	511 449.044	491 953.972	15+959.810	17.940 Rt.
Abut. No. 1 E. Bd. & Brg. Ext. Barrier	8	511 449.488	491 955.510	15+959.403	17.940 Rt.
Abut. No. 1 E. Bd. & Int. Barrier (EWS)	9	511 466.146	491 950.046	15+958.779	0.420 Rt.
Abut. No. 1 E. Bd. & Brg. Int. Barrier	10	511 466.250	491 950.408	15+959.156	0.420 Rt.
Abut. No. 1 E. Bd. Northern most Pile	11	511 465.780	491 950.551	15+959.163	0.912 Rt.
Abut. No. 1 E. Bd. Southern most Pile	12	511 450.282	491 955.269	15+959.392	17.110 Rt.
Pier No. 1 W. Bd. & Column No. 1	13	511 488.328	491 965.704	15+980.073	16.485 Lt.
Pier No. 1 W. Bd. & Column No. 2	14	511 483.533	491 967.119	15+980.073	11.485 Lt.
Pier No. 1 W. Bd. & Column No. 3	15	511 478.737	491 968.534	15+980.073	6.485 Lt.
Pier No. 1 W. Bd. & Column No. 4	16	511 473.942	491 969.950	15+980.073	1.485 Lt.
Pier No. 1 W. Bd. & Brg. Int. Barrier	17	511 472.920	491 970.251	15+980.073	0.420 Lt.
Pier No. 1 E. Bd. & Brg. Int. Barrier	18	511 472.158	491 970.636	15+980.226	0.420 Rt.
Pier No. 1 E. Bd. & Column No. 1	19	511 471.137	491 970.937	15+980.226	1.485 Rt.
Pier No. 1 E. Bd. & Column No. 2	20	511 466.341	491 972.352	15+980.226	6.485 Rt.
Pier No. 1 E. Bd. & Column No. 3	21	511 461.546	491 973.768	15+980.226	11.485 Rt.
Pier No. 1 E. Bd. & Column No. 4	22	511 456.750	491 975.183	15+980.226	16.485 Rt.
Pier No. 2 W. Bd. & Column No. 1	23	511 494.317	491 985.787	16+001.124	16.485 Lt.
Pier No. 2 W. Bd. & Column No. 2	24	511 489.530	491 987.230	16+001.124	11.485 Lt.
Pier No. 2 W. Bd. & Column No. 3	25	511 484.742	491 988.672	16+001.124	6.485 Lt.
Pier No. 2 W. Bd. & Column No. 4	26	511 479.955	491 990.115	16+001.124	1.485 Lt.
Pier No. 2 W. Bd. & Brg. Int. Barrier	27	511 478.935	491 990.422	16+001.124	0.420 Lt.
Pier No. 2 E. Bd. & Brg. Int. Barrier	28	511 478.146	491 990.713	16+001.175	0.420 Rt.
Pier No. 2 E. Bd. & Column No. 1	29	511 477.126	491 991.020	16+001.175	1.485 Rt.
Pier No. 2 E. Bd. & Column No. 2	30	511 472.339	491 992.463	16+001.175	6.485 Rt.
Pier No. 2 E. Bd. & Column No. 3	31	511 467.551	491 993.906	16+001.175	11.485 Rt.
Pier No. 2 E. Bd. & Column No. 4	32	511 462.764	491 995.348	16+001.175	16.485 Rt.
Pier No. 3 W. Bd. & Column No. 1	33	511 500.420	492 005.836	16+022.176	16.485 Lt.
Pier No. 3 W. Bd. & Column No. 2	34	511 495.641	492 007.306	16+022.176	11.485 Lt.
Pier No. 3 W. Bd. & Column No. 3	35	511 490.862	492 008.776	16+022.176	6.485 Lt.
Pier No. 3 W. Bd. & Column No. 4	36	511 486.083	492 010.245	16+022.176	1.485 Lt.
Pier No. 3 W. Bd. & Brg. Int. Barrier	37	511 485.065	492 010.558	16+022.176	0.420 Lt.
Pier No. 3 E. Bd. & Brg. Int. Barrier	38	511 484.247	492 010.757	16+022.125	0.420 Rt.

TABLE OF COORDINATES					
REFERENCE	POINT NO.	NORTH COORDINATE	EAST COORDINATE	STATION	OFFSET
Pier No. 3 E. Bd. & Column No. 1	39	511 483.229	492 011.070	16+022.125	1.485 Rt.
Pier No. 3 E. Bd. & Column No. 2	40	511 478.450	492 012.539	16+022.125	6.485 Rt.
Pier No. 3 E. Bd. & Column No. 3	41	511 473.671	492 014.009	16+022.125	11.485 Rt.
Pier No. 3 E. Bd. & Column No. 4	42	511 468.892	492 015.478	16+022.125	16.485 Rt.
Pier No. 4 W. Bd. & Column No. 1	43	511 506.637	492 025.850	16+043.227	16.485 Lt.
Pier No. 4 W. Bd. & Column No. 2	44	511 501.867	492 027.347	16+043.227	11.485 Lt.
Pier No. 4 W. Bd. & Column No. 3	45	511 497.096	492 028.844	16+043.227	6.485 Lt.
Pier No. 4 W. Bd. & Column No. 4	46	511 492.325	492 030.341	16+043.227	1.485 Lt.
Pier No. 4 W. Bd. & Brg. Int. Barrier	47	511 491.309	492 030.660	16+043.227	0.420 Lt.
Pier No. 4 E. Bd. & Brg. Int. Barrier	48	511 490.462	492 030.765	16+043.074	0.420 Rt.
Pier No. 4 E. Bd. & Column No. 1	49	511 489.446	492 031.084	16+043.074	1.485 Rt.
Pier No. 4 E. Bd. & Column No. 2	50	511 484.675	492 032.581	16+043.074	6.485 Rt.
Pier No. 4 E. Bd. & Column No. 3	51	511 479.904	492 034.077	16+043.074	11.485 Rt.
Pier No. 4 E. Bd. & Column No. 4	52	511 475.133	492 035.574	16+043.074	16.485 Rt.
Abut. No. 2 W. Bd. & Ext. Barrier (EWS)	53	511 514.105	492 045.986	16+064.777	17.520 Lt.
Abut. No. 2 W. Bd. & Brg. Ext. Barrier	54	511 514.393	492 045.506	16+064.406	17.940 Lt.
Abut. No. 2 W. Bd. Ext. Barrier End	54A	511 515.729	492 049.617	16+068.803	17.940 Lt.
Abut. No. 2 W. Bd. & Int. Barrier (EWS)	55	511 497.746	492 050.969	16+064.531	0.420 Lt.
Abut. No. 2 W. Bd. & Brg. Int. Barrier	56	511 497.630	492 050.609	16+064.156	0.420 Lt.
Abut. No. 2 W. Bd. Northern most Pile	57	511 513.599	492 045.748	16+064.394	17.110 Lt.
Abut. No. 2 W. Bd. Southern most Pile	58	511 498.101	492 050.466	16+064.163	0.912 Lt.
Abut. No. 2 E. Bd. & Brg. Int. Barrier	59	511 496.827	492 050.854	16+064.144	0.420 Rt.
Abut. No. 2 E. Bd. & Int. Barrier (EWS)	60	511 496.942	492 051.212	16+064.521	0.420 Rt.
Abut. No. 2 E. Bd. & Ext. Barrier (EWS)	61	511 480.581	492 056.191	16+064.276	17.520 Rt.
Abut. No. 2 Southern End	61A	511 479.778	492 056.044	16+063.892	18.240 Rt.
Abut. No. 2 E. Bd. & Brg. Ext. Barrier	62	511 480.064	492 055.956	16+063.897	17.940 Rt.
Abut. No. 2 E. Bd. Northern most Pile	63	511 496.356	492 050.997	16+064.163	0.912 Rt.
Abut. No. 2 E. Bd. Southern most Pile	64	511 480.859	492 055.715	16+063.908	17.110 Rt.
Pier No. 1 W. Bd. & Girder No. A1	65	511 488.789	491 965.568	15+980.073	16.965 Lt.
Pier No. 1 W. Bd. & Girder No. B1	66	511 486.602	491 966.214	15+980.073	14.685 Lt.
Pier No. 1 W. Bd. & Girder No. C1	67	511 484.415	491 966.859	15+980.073	12.405 Lt.
Pier No. 1 W. Bd. & Girder No. D1	68	511 482.228	491 967.504	15+980.073	10.125 Lt.
Pier No. 1 W. Bd. & Girder No. E1	69	511 480.042	491 968.150	15+980.073	7.845 Lt.
Pier No. 1 W. Bd. & Girder No. F1	70	511 477.855	491 968.795	15+980.073	5.565 Lt.
Pier No. 1 W. Bd. & Girder No. G1	71	511 475.668	491 969.440	15+980.073	3.285 Lt.
Pier No. 1 W. Bd. & Girder No. H1	72	511 473.481	491 970.085	15+980.073	1.005 Lt.
Pier No. 1 E. Bd. & Girder No. A2	73	511 471.597	491 970.801	15+980.226	1.005 Rt.
Pier No. 1 E. Bd. & Girder No. B2	74	511 469.410	491 971.447	15+980.226	3.285 Rt.
Pier No. 1 E. Bd. & Girder No. C2	75	511 467.223	491 972.092	15+980.226	5.565 Rt.
Pier No. 1 E. Bd. & Girder No. D2	76	511 468.037	491 972.737	15+980.226	7.845 Rt.

TABLE OF COORDINATES					
REFERENCE	POINT NO.	NORTH COORDINATE	EAST COORDINATE	STATION	OFFSET
Pier No. 1 E. Bd. & Girder No. E2	77	511 462.850	491 973.383	15+980.226	10.125 Rt.
Pier No. 1 E. Bd. & Girder No. F2	78	511 460.663	491 974.028	15+980.226	12.405 Rt.
Pier No. 1 E. Bd. & Girder No. G2	79	511 458.477	491 974.674	15+980.226	14.685 Rt.
Pier No. 1 E. Bd. & Girder No. H2	80	511 456.290	491 975.319	15+980.226	16.965 Rt.
Pier No. 2 W. Bd. & Girder No. A1	81	511 494.777	491 985.649	16+001.124	16.965 Lt.
Pier No. 2 W. Bd. & Girder No. B1	82	511 492.594	491 986.307	16+001.124	14.685 Lt.
Pier No. 2 W. Bd. & Girder No. C1	83	511 490.411	491 986.965	16+001.124	12.405 Lt.
Pier No. 2 W. Bd. & Girder No. D1	84	511 488.228	491 987.622	16+001.124	10.125 Lt.
Pier No. 2 W. Bd. & Girder No. E1	85	511 486.045	491 988.280	16+001.124	7.845 Lt.
Pier No. 2 W. Bd. & Girder No. F1	86	511 483.862	491 988.938	16+001.124	5.565 Lt.
Pier No. 2 W. Bd. & Girder No. G1	87	511 481.679	491 989.596	16+001.124	3.285 Lt.
Pier No. 2 W. Bd. & Girder No. H1	88	511 479.495	491 990.253	16+001.124	1.005 Lt.
Pier No. 2 E. Bd. & Girder No. A2	89	511 477.586	491 990.882	16+001.175	1.005 Rt.
Pier No. 2 E. Bd. & Girder No. B2	90	511 475.403	491 991.540	16+001.175	3.285 Rt.
Pier No. 2 E. Bd. & Girder No. C2	91	511 473.219	491 992.198	16+001.175	5.565 Rt.
Pier No. 2 E. Bd. & Girder No. D2	92	511 471.036	491 992.855	16+001.175	7.845 Rt.
Pier No. 2 E. Bd. & Girder No. E2	93	511 468.853	491 993.513	16+001.175	10.125 Rt.
Pier No. 2 E. Bd. & Girder No. F2	94	511 466.670	491 994.171	16+001.175	12.405 Rt.
Pier No. 2 E. Bd. & Girder No. G2	95	511 464.487	491 994.829	16+001.175	14.685 Rt.
Pier No. 2 E. Bd. & Girder No. H2	96	511 462.304	491 995.487	16+001.175	16.965 Rt.
Pier No. 3 W. Bd. & Girder No. A1	97	511 500.879	492 005.695	16+022.176	16.965 Lt.
Pier No. 3 W. Bd. & Girder No. B1	98	511 498.700	492 006.366	16+022.176	14.685 Lt.
Pier No. 3 W. Bd. & Girder No. C1	99	511 496.521	492 007.036	16+022.176	12.405 Lt.
Pier No. 3 W. Bd. & Girder No. D1	100	511 494.341	492 007.706	16+022.176	10.125 Lt.
Pier No. 3 W. Bd. & Girder No. E1	101	511 492.162	492 008.376	16+022.176	7.845 Lt.
Pier No. 3 W. Bd. & Girder No. F1	102	511 489.983	492 009.046	16+022.176	5.565 Lt.
Pier No. 3 W. Bd. & Girder No. G1	103	511 487.803	492 009.717	16+022.176	3.285 Lt.
Pier No. 3 W. Bd. & Girder No. H1	104	511 485.624	492 010.387	16+022.176	1.005 Lt.
Pier No. 3 E. Bd. & Girder No. A2	105	511 483.688	492 010.929	16+022.125	1.005 Rt.
Pier No. 3 E. Bd. & Girder No. B2	106	511 481.509	492 011.599	16+022.125	3.285 Rt.
Pier No. 3 E. Bd. & Girder No. C2	107	511 479.329	492 012.269	16+022.125	5.565 Rt.
Pier No. 3 E. Bd. & Girder No. D2	108	511 477.150	492 012.939	16+022.125	7.845 Rt.
Pier No. 3 E. Bd. & Girder No. E2	109	511 474.971	492 013.609	16+022.125	10.125 Rt.
Pier No. 3 E. Bd. & Girder No. F2	110	511 472.792	492 014.279	16+022.125	12.405 Rt.
Pier No. 3 E. Bd. & Girder No. G2	111	511 470.612	492 014.949	16+022.125	14.685 Rt.
Pier No. 3 E. Bd. & Girder No. H2	112	511 468.433	492 015.620	16+022.125	16.965 Rt.
Pier No. 4 W. Bd. & Girder No. A1	113	511 507.095	492 025.707	16+043.227	16.965 Lt.
Pier No. 4 W. Bd. & Girder No. B1	114	511 504.920	492 026.389	16+043.227	14.685 Lt.
Pier No. 4 W. Bd. & Girder No. C1	115	511 502.745	492 027.072	16+043.227	12.405 Lt.
Pier No. 4 W. Bd. & Girder No. D1	116	511 500.569	492 027.754	16+043.227	10.125 Lt.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	54-87-K-6657-01	2002	500	1122



Piers are set radial to E WB or EB bridge.

Note: Piers and abutments are parallel to a local tangent at Proposed Improvement Sta. 16+011.650. Beams are placed on chords. All beams within a span are the same length. Deck and rails to be built on curve.

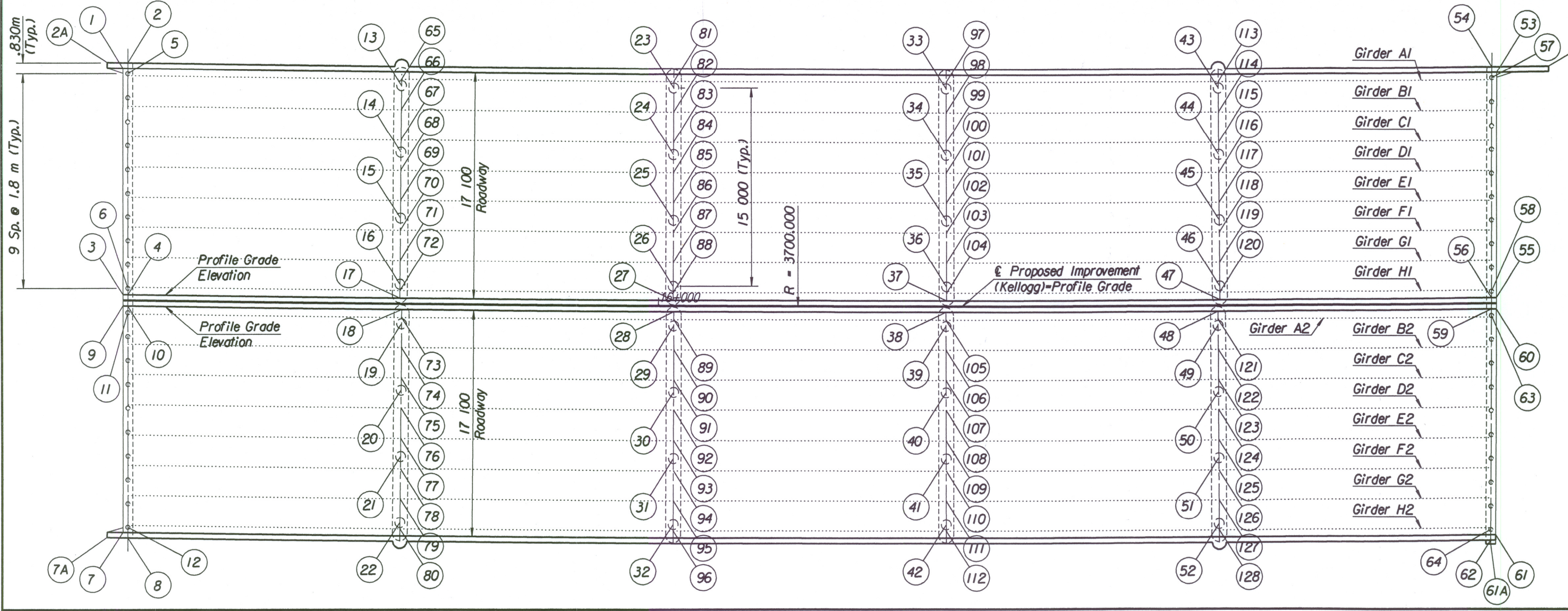


TABLE OF COORDINATES					
REFERENCE	POINT NO.	NORTH COORDINATE	EAST COORDINATE	STATION	OFFSET
Pier No. 4 W. Bd. & Girder No. E1	117	511 498.394	492 028.437	16+	