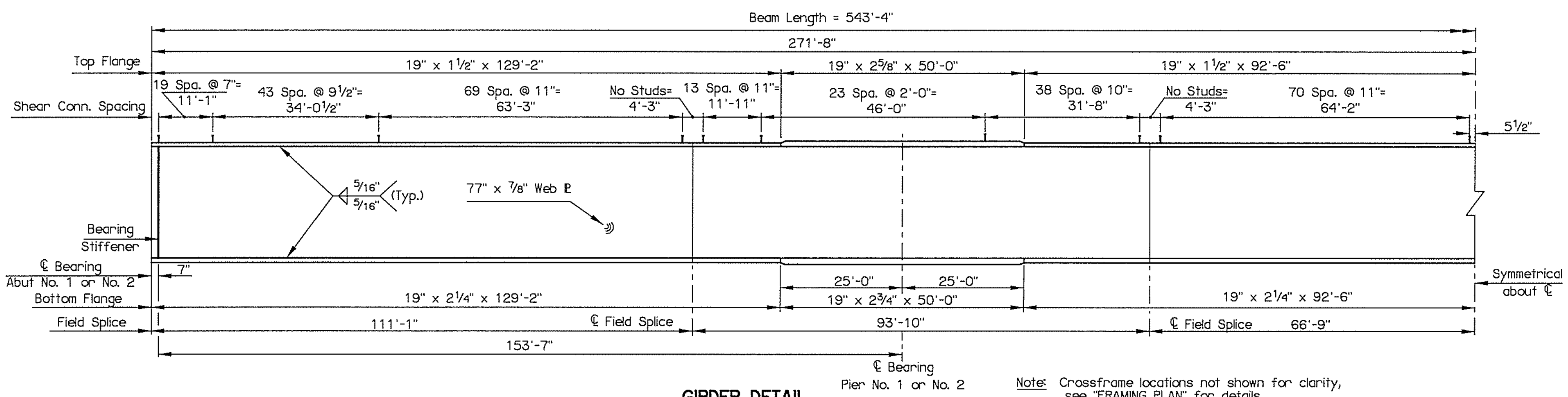
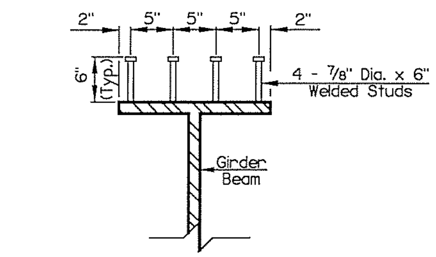
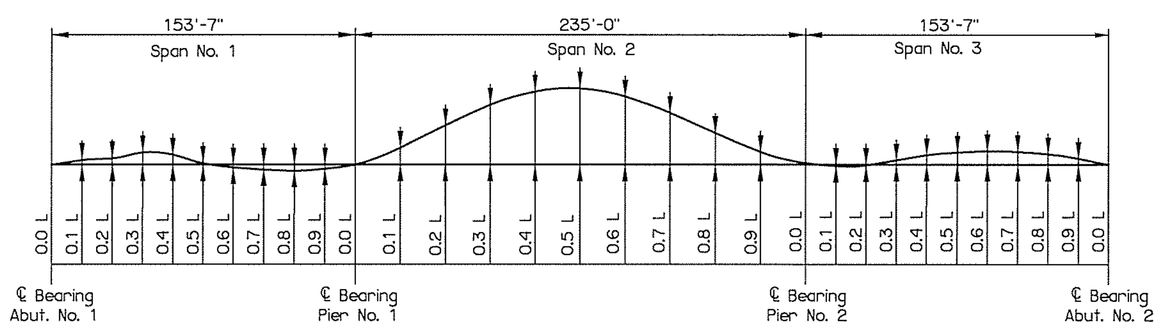


GIRDER DETAIL

Note: Crossframe locations not shown for clarity, see "FRAMING PLAN" for details. See "END DIAPHRAGMS (SHEET 1 OF 2)" for Bearing and Crossframe Stiffener details.



SHEAR CONNECTOR LAYOUT



DEAD LOAD DEFLECTION DIAGRAM

(Typ.)

Dead Load Deflection: Span No. 1 (153'-7")

	Span L (ft.)	0.00	15.36	30.72	46.07	61.43	76.79	92.15	107.51	122.87	138.22	153.58
	Span 10th Points	.0L	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	0.0L
Beam No. 1	Girder + Diaphragm	0.00	0.103	0.159	0.168	0.126	0.029	-0.086	-0.193	-0.251	-0.187	0.00
	Deck + Haunch + Parapet	0.00	0.199	0.313	0.344	0.278	0.114	-0.086	-0.275	-0.386	-0.296	0.00
	Total Deflection	0.00	0.302	0.472	0.512	0.404	0.143	-0.172	-0.468	-0.637	-0.483	0.00
Beam No. 2	Girder + Diaphragm	0.00	0.111	0.181	0.210	0.181	0.106	-0.004	-0.104	-0.169	-0.154	0.00
	Deck + Haunch + Parapet	0.00	0.210	0.349	0.412	0.369	0.242	0.047	-0.134	-0.258	-0.249	0.00
	Total Deflection	0.00	0.321	0.530	0.622	0.550	0.348	0.043	-0.238	-0.427	-0.403	0.00
Beam No. 3	Girder + Diaphragm	0.00	0.124	0.216	0.261	0.248	0.182	0.081	-0.037	-0.110	-0.114	0.00
	Deck + Haunch + Parapet	0.00	0.233	0.407	0.495	0.480	0.368	0.189	-0.025	-0.162	-0.182	0.00
	Total Deflection	0.00	0.357	0.623	0.756	0.728	0.550	0.270	-0.062	-0.272	-0.296	0.00
Beam No. 4	Girder + Diaphragm	0.00	0.159	0.269	0.327	0.328	0.266	0.166	0.048	-0.057	-0.077	0.00
	Deck + Haunch + Parapet	0.00	0.295	0.500	0.610	0.616	0.507	0.327	0.115	-0.075	-0.121	0.00
	Total Deflection	0.00	0.454	0.769	0.937	0.944	0.773	0.493	0.163	-0.132	-0.198	0.00
Beam No. 5	Girder + Diaphragm	0.00	0.200	0.339	0.417	0.434	0.386	0.272	0.136	0.009	-0.062	0.00
	Deck + Haunch + Parapet	0.00	0.372	0.628	0.773	0.802	0.712	0.504	0.256	0.026	-0.104	0.00
	Total Deflection	0.00	0.572	0.967	1.190	1.236	1.098	0.776	0.392	0.035	-0.166	0.00

Dead Load Deflection: Span No. 2 (235'-0")

	Span L (ft.)	0.00	177.08	200.58	224.08	247.58	271.08	294.58	318.08	341.58	365.08	388.58
	Span 10th Points	.0L	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	0.0L
Beam No. 1	Girder + Diaphragm	0.00	0.559	1.271	1.924	2.343	2.434	2.184	1.658	0.994	0.382	0.00
	Deck + Haunch + Parapet	0.00	0.937	2.153	3.283	4.021	4.190	3.768	2.865	1.722	0.668	0.00
	Total Deflection	0.00	1.496	3.424	5.207	6.364	6.624	5.952	4.523	2.716	1.050	0.00
Beam No. 2	Girder + Diaphragm	0.00	0.492	1.141	1.755	2.177	2.311	2.129	1.671	1.049	0.433	0.00
	Deck + Haunch + Parapet	0.00	0.835	1.943	3.003	3.739	3.978	3.668	2.880	1.810	0.746	0.00
	Total Deflection	0.00	1.327	3.084	4.758	5.916	6.289	5.797	4.551	2.859	1.179	0.00
Beam No. 3	Girder + Diaphragm	0.00	0.455	1.082	1.690	2.116	2.269	2.117	1.691	1.083	0.455	0.00
	Deck + Haunch + Parapet	0.00	0.772	1.850	2.897	3.637	3.903	3.642	2.905	1.859	0.781	0.00
	Total Deflection	0.00	1.227	2.932	4.587	5.753	6.172	5.759	4.596	2.942	1.236	0.00
Beam No. 4	Girder + Diaphragm	0.00	0.414	1.029	1.655	2.121	2.311	2.185	1.771	1.161	0.510	0.00
	Deck + Haunch + Parapet	0.00	0.707	1.761	2.838	3.641	3.969	3.748	3.030	1.980	0.868	0.00
	Total Deflection	0.00	1.121	2.790	4.493	5.762	6.280	5.933	4.801	3.141	1.378	0.00
Beam No. 5	Girder + Diaphragm	0.00	0.369	0.973	1.638	2.170	2.428	2.347	1.937	1.292	0.580	0.00
	Deck + Haunch + Parapet	0.00	0.639	1.674	2.812	3.726	4.165	4.014	3.297	2.182	0.969	0.00
	Total Deflection	0.00	1.008	2.647	4.450	5.896	6.593	6.361	5.234	3.474	1.549	0.00

Dead Load Deflection: Span No. 3 (153'-7")

	Span L (ft.)	0.00	403.94	419.30	434.66	450.02	465.38	480.73	496.09	511.45	526.81	542.17
	Span 10th Points	.0L	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	0.0L
Beam No. 1	Girder + Diaphragm	0.00	-0.062	-0.011	0.119	0.268	0.376	0.435	0.418	0.339	0.200	0.00
	Deck + Haunch + Parapet	0.00	-0.111	-0.024	0.205	0.468	0.662	0.769	0.739	0.601	0.355	0.00
	Total Deflection	0.00	-0.173	-0.035	0.324	0.736	1.038	1.204	1.157	0.940	0.555	0.00
Beam No. 2	Girder + Diaphragm	0.00	-0.093	-0.059	0.030	0.155	0.262	0.322	0.329	0.269	0.159	0.00
	Deck + Haunch + Parapet	0.00	-0.152	-0.088	0.070	0.291	0.481	0.586	0.594	0.485	0.285	0.00
	Total Deflection	0.00	-0.245	-0.147	0.100	0.446	0.743	0.908	0.923	0.754	0.444	0.00
Beam No. 3	Girder + Diaphragm	0.00	-0.123	-0.127	-0.041	0.065	0.175	0.244	0.259	0.219	0.125	0.00
	Deck + Haunch + Parapet	0.00	-0.205	-0.200	-0.041	0.150	0.345	0.464	0.485	0.407	0.232	0.00
	Total Deflection	0.00	-0.328	-0.327	-0.082	0.215	0.520	0.708	0.744	0.626	0.357	0.00
Beam No. 4	Girder + Diaphragm	0.00	-0.154	-0.185	-0.120	-0.008	0.094	0.177	0.207	0.183	0.109	0.00
	Deck + Haunch + Parapet	0.00	-0.252	-0.292	-0.169	0.032	0.213	0.357	0.404	0.353	0.210	0.00
	Total Deflection	0.00	-0.406	-0.477	-0.289	0.024	0.307	0.534	0.611	0.536	0.319	0.00
Beam No. 5	Girder + Diaphragm	0.00	-0.199	-0.252	-0.212	-0.101	0.023	0.116	0.168	0.158	0.102	0.00
	Deck + Haunch + Parapet	0.00	-0.317	-0.389	-0.311	-0.115	0.103	0.260	0.344	0.314	0.199	0.00
	Total Deflection	0.00	-0.516	-0.641	-0.523	-0.216	0.126	0.376	0.512	0.472	0.301	0.00

REV. NO.	DESCRIPTION	REVISIONS	DATE

US 75A OVER BNSF RR
BRIDGE 'A'
CREEK COUNTY

DETAILS OF PLATE GIRDERS

Design	KAB	8/15
Detail	RWM	9/15
Check	KMS	01/16
Squad	MAYFIELD	
Engr.	ELYAZGI	

STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION

JOB PIECE NO. 27075(04) SHEET NO. 64