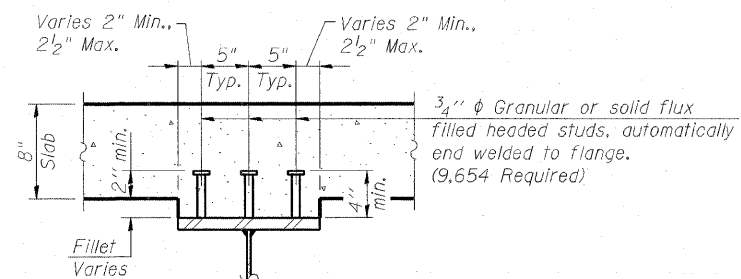


Baseline 70E55N No studs on splices: Shift studs 1/2 each way & cut adjacent space in half.

SHEAR CONNECTOR SPACING TABLE									
Location	1	2	3	4	5	6	7	8	9
Girder 1	6 Spaces @ 11" = 5'-6"	108 Spaces @ 12" = 108'-0"	12 Spaces @ 11" = 11'-0"	137 Spaces @ 12" = 137'-0"	32 Spaces @ 10" = 26'-8"	95 Spaces @ 12" = 95'-0"	18 Spaces @ 10" = 15'-0"	136 Spaces @ 12" = 136'-0"	1 Space @ 5"
Girder 2	265 Spaces @ 12" = 265'-0"				134 Spaces @ 11" = 122'-10"		142 Spaces @ 12" = 142'-0"		1 Space @ 7"
Girder 3	263 Spaces @ 12" = 263'-0"				133 Spaces @ 11" = 121'-11"		140 Spaces @ 12" = 140'-0"		2 Spaces @ 8" = 1'-4"
Girder 4	261 Spaces @ 12" = 261'-0"				132 Spaces @ 11" = 121'-0"		139 Spaces @ 12" = 139'-0"		1 Space @ 12"
Girder 5	259 Spaces @ 12" = 259'-0"				130 Spaces @ 11" = 119'-2"		139 Spaces @ 12" = 139'-0"		1 Space @ 8"
Girder 6	257 Spaces @ 12" = 257'-0"				128 Spaces @ 11" = 117'-4"		138 Spaces @ 12" = 138'-0"		2 Spaces @ 8" = 1'-4"

Baseline 70E55N

GIRDER DIMENSIONS												
Location	Radius	A	B	C	D	E	F	G	H	I	J	Length of Girder
Girder 1	1,106.417	85.496	30.678	35.204	90.525	26.152	25.146	60.350	37.216	40.233	103.601	536.225
Girder 2	1,097.750	84.826	30.438	34.928	89.816	25.947	24.949	59.877	36.924	39.918	102.789	532.038
Girder 3	1,089.083	84.156	30.197	34.653	89.107	25.742	24.752	59.405	36.633	39.603	101.978	527.850
Girder 4	1,080.417	83.487	29.957	34.377	88.398	25.537	24.555	58.932	36.341	39.288	101.166	523.663
Girder 5	1,071.750	82.817	29.717	34.101	87.689	25.332	24.358	58.459	36.050	38.973	100.355	519.475
Girder 6	1,063.083	82.147	29.476	33.825	86.980	25.127	24.161	57.986	35.758	38.658	99.543	515.288



SECTION A-A

Local Tangent to Baseline 70E55N at Sta. 74+78.50

GIRDER LAYOUT DIMENSIONS																						
Location	CL. Brg. Pier 10		Field Splice 11		Pier 11		Field Splice 12A		Field Splice 12B		Pier 12		Field Splice 13A		Field Splice 13B		Pier 13		Field Splice 14		CL. Brg. E. Abut.	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
Girder 1	517.155	121.885	440.105	84.882	411.793	73.071	378.915	60.490	292.692	33.000	267.392	26.380	242.925	20.581	183.716	8.943	146.919	3.381	106.954	-1.235	3.520	-6.411
Girder 2	513.104	129.547	436.658	92.833	408.568	81.115	375.947	68.633	290.399	41.358	265.298	34.790	241.022	29.036	182.277	17.489	145.769	11.971	106.116	7.391	3.493	2.256
Girder 3	509.053	137.209	433.211	100.785	405.342	89.159	372.979	76.775	288.107	49.716	263.203	43.200	239.119	37.491	180.837	26.035	144.618	20.561	105.278	16.017	3.465	10.922
Girder 4	505.002	144.870	429.763	108.736	402.116	97.203	370.011	84.918	285.814	58.074	261.109	51.610	237.216	45.947	179.398	34.582	143.467	29.151	104.441	24.643	3.438	19.589
Girder 5	500.951	152.532	426.316	116.688	398.891	105.247	367.043	93.060	283.521	66.432	259.014	60.019	235.314	54.402	177.959	43.128	142.316	37.741	103.603	33.269	3.410	28.255
Girder 6	496.900	160.194	422.868	124.639	395.665	113.291	364.075	101.203	281.228	74.789	256.920	68.429	233.411	62.857	176.520	51.674	141.165	46.331	102.765	41.895	3.383	36.922



USER NAME =  
 PLOT SCALE = 8x2 1/4" / IN.  
 PLOT DATE = 6/30/2011

DESIGNED - P.J.L.  
 DRAWN - BRD  
 CHECKED - CHY  
 DATE - 07-01-11

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS - UNIT 4 - I  
 I-70E OVER I-55, CSX & KCS RAILROADS

SCALE: SHEET S-114 OF S-234 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	241
S.N. 082-0322 & S.N. 082-0324		CONTRACT NO. 76C76		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		