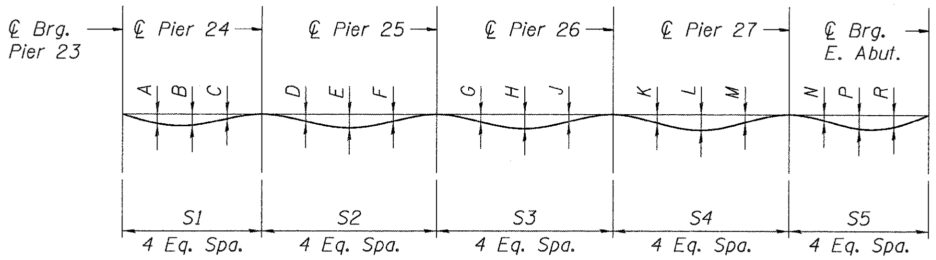


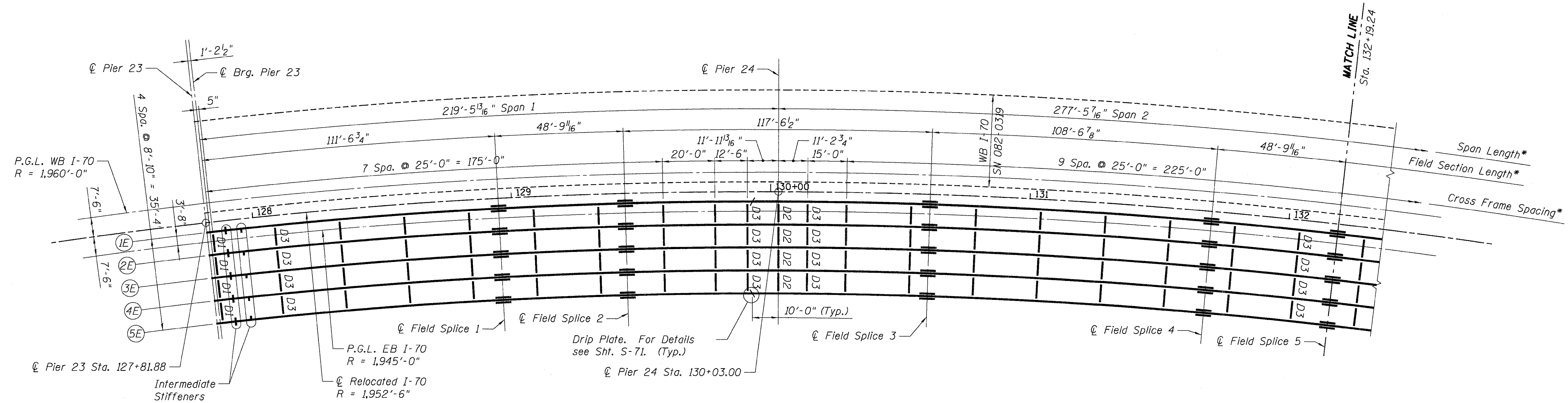
DEAD LOAD DEFLECTION - STEEL SELF WEIGHT

(Includes weight of structural steel only.)

NOTE:
The calculated deflections of the primary girders/beams under steel self-weight shall be used to detail the diaphragm, cross frame and lateral bracing connections, and to erect the structural steel such that the girders/beams will be plumb within a tolerance of ±1/8" per vertical ft. throughout when supporting their own weight.

DEAD LOAD DEFLECTIONS - STEEL SELF WEIGHT ONLY

	S1	S2	S3	S4	S5	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R
Girder 1E	219'-5 13/16"	277'-5 7/16"	279'-5 3/8"	279'-5 3/8"	221'-6 3/4"	1 3/8	1 9/16	5/8	3/4	1 1/2	3/4	15/16	1 13/16	15/16	3/4	1 9/16	3/4	11/16	1 5/8	1 7/16
Girder 2E	218'-5 13/16"	276'-2 3/8"	278'-2 3/16"	278'-2 3/16"	220'-6 11/16"	1 5/16	1 7/16	5/8	3/4	1 1/2	3/4	15/16	1 3/4	15/16	3/4	1 9/16	3/4	5/8	1 9/16	1 5/16
Girder 3E	217'-5 3/4"	274'-11 1/4"	276'-11"	276'-11"	219'-6 11/16"	1 3/16	1 3/8	9/16	3/4	1 7/16	3/4	7/8	1 5/8	7/8	13/16	1 1/2	3/4	5/8	1 7/16	1 1/4
Girder 4E	216'-5 3/4"	273'-8 3/16"	275'-7 13/16"	275'-7 13/16"	218'-6 5/8"	1 1/8	1 1/4	1/2	3/4	1 7/16	3/4	13/16	1 9/16	13/16	3/4	1 1/2	3/4	9/16	1 5/16	1 3/16
Girder 5E	215'-5 3/4"	272'-5 1/16"	274'-4 5/8"	274'-4 5/8"	217'-6 9/16"	1	1 3/16	1/2	3/4	1 7/16	3/4	13/16	1 1/2	3/4	3/4	1 1/2	3/4	1/2	1 3/16	1 1/16



* Dimensions measured along centerline Girder 1E

FRAMING PLAN
EB I-70 SN 082-0318

N

NOTES:

1. Work this sheet with Sheets S-49 and S-50.
2. All cross frames or diaphragms between beams or girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
3. All cross frames shall be installed radial to ℄ Relocated I-70 or parallel to ℄ of bearing at Pier 23.
4. The Contractor shall either:
   1. Ream diaphragm and/or cross frame connection holes during shop assembly, or
   2. Provide detailing and fabrication controls acceptable to the Engineer which ensures accuracy such that field reaming will not exceed the amount permitted in Article 505.08(l) of the Standard Specifications.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - CCE	REVISED -
		DRAWN - CCE	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED - TCU	REVISED -
	PLOT DATE = $DATE$	DATE - 06/04/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION OVER
NS, TRRA, MCT AND INDUSTRIAL DR.

FRAMING PLAN EB I-70
1 OF 3

SCALE: | SHEET NO. S-48 OF S-111 | STA. 134+22.00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB	ST. CLAIR	285	158
SN 082-0318 (EB) & 0319 (WB)		CONTRACT NO. 76C44		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			