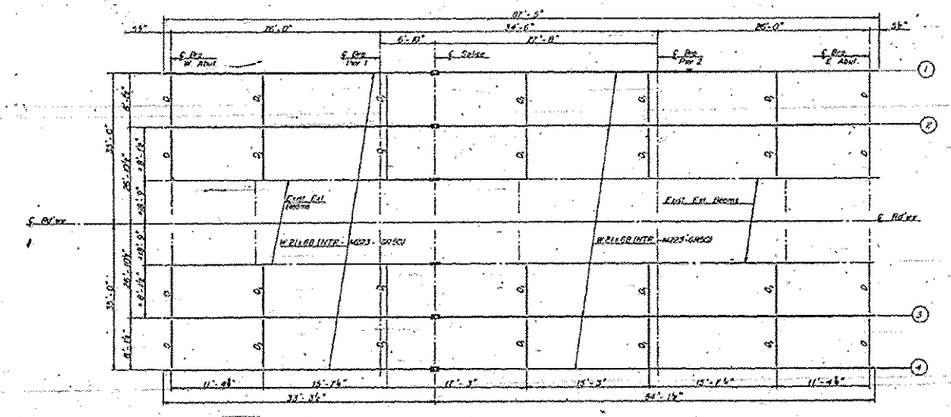
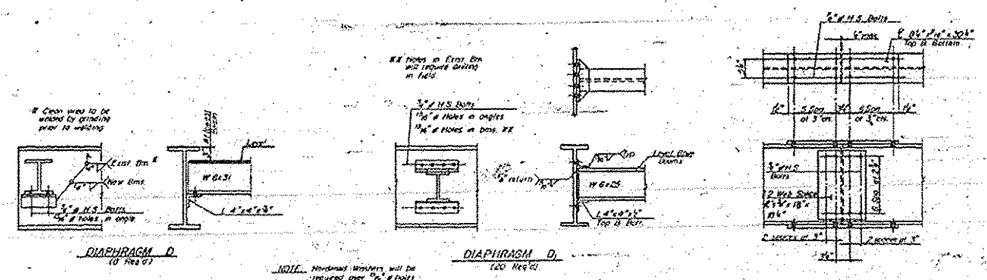
FAP 714	ADF-2 (W-451) (SPRING CREEK-MACON-MACON)	MACON	115	93	SHEET NO. 5 OF 12 SHEETS	



FRAMING PLAN
(INTR = Indicates Notch Toughness Requirements)



DIAPHRAGM D
(0 Req'd)

NOTE: Hardened Washers will be required over 13/16" ø holes in angles.

DIAPHRAGM D1
(20 Req'd)

SPLICE
(All Splice Material - M223-GR50)
NTR Req'd

INT. BEAM MOMENT TABLE			
	0.4 Span 1 or 3	Pier 1 or 2	0.5 Span 2
Ts (Int)	1480	1480	1480
℄ (k/FT)	1334	1334	1334
M ℄ (k/FT)	57.4	126.9	24.1
M ℄ (k/FT)	137.4	125.0	157.2
M imp. (k/FT)	41.2	17.0	47.2
M total (k/FT)	235.0	218.9	279.5
Ts (Int.)	20.2	24.6	23.9

INT. BEAM REACTION TABLE		
	Abut's	Pers
R ℄ (k)	12.4	45.1
R ℄ (k)	32.4	44.8
R imp (k)	9.7	13.4
R total (k)	54.5	103.3

NOTES: Prior to pouring deck slab contractor shall provide temporary fold down straps consisting of 2x⅛" metal straps at all new abutment beam bearings. Secure straps with abutment bearing Anchor Bolts. Remove after deck slab has been poured.

Connecting bolt holes for all diaphragms in beams 2 and 3 shall be 13/16" x 1½" inch slotted holes. These slotted holes shall have 13/16 inch structural plate washer placed over them.

The bolts for the slotted holes shall only be finger-tightened prior to the deck slab pour and then be fully-tightened after the completion of the pour.

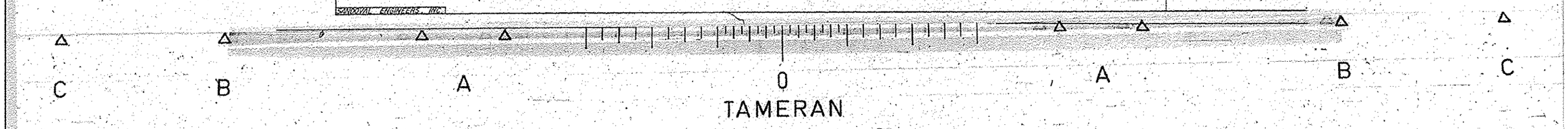
ELEVATIONS - TOP OF BEAMS		
Location	Bm. 1 & 4	Bm. 2 & 3
℄ Brg. - W. Abut.	614.05	614.22
℄ Brg. - Pier 1	613.90	614.07
℄ Splice	613.86	614.03
℄ Brg. - Pier 2	613.18	613.95
℄ Brg. - E. Abut.	613.72	613.87

(For Fabrication Only)

STRUCTURAL STEEL

FA RTE. 714
SECTION 129 BY
over
SPRING CREEK
MACON COUNTY
STA. 116+30

SANDOVAL ENGINEERS, INC.



• D7 BRIDGE PAINTING 2013-4

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	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -					CONTRACT NO. 74613		
Default	PLOT DATE = 3/20/2013	CHECKED -	REVISED -		SCALE: N/A	SHEET 6 OF 6 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -							