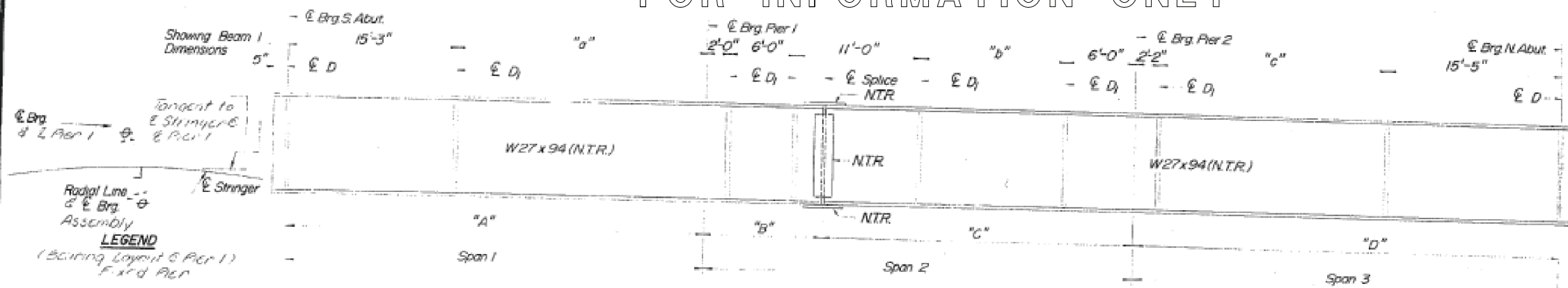


# FOR INFORMATION ONLY

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
FA 742	CGLE	40	23
SHEET 9 OF 16 SHEETS			



**VALUE OF  $\phi$**   
(BEARING PLACEMENT)

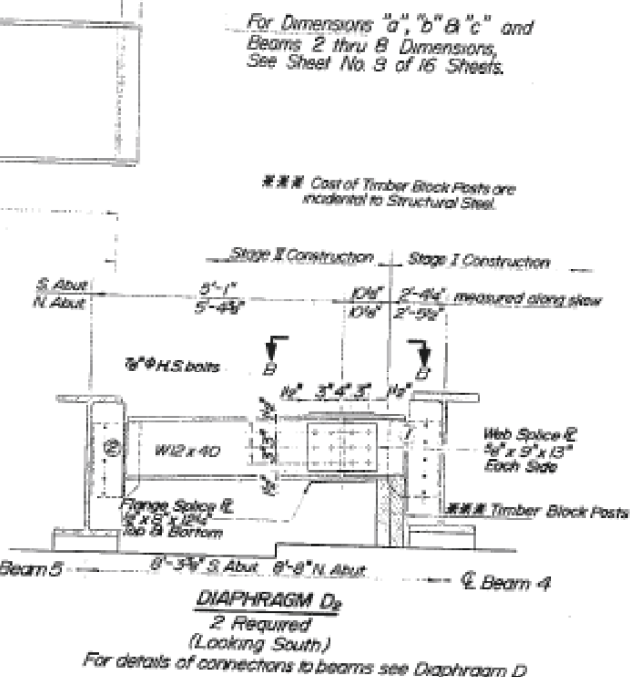
LOC.	BK	#1	#2	#3	#4	#5	#6	#7	#8
Brig. N. Abut.		30°04'42"	30°15'02"	30°25'20"	30°35'36"	30°45'17"	30°55'29"	31°07'06"	31°18'06"
Brig. S. Abut.		27°51'18"	28°00'30"	28°09'49"	28°19'12"	28°28'43"	28°38'21"	28°48'06"	28°57'58"
PIER 1		28°40'47"	28°50'18"	28°59'55"	29°09'40"	29°19'31"	29°29'29"	29°39'35"	29°49'47"
PIER 2		28°19'12"	28°29'42"	28°40'08"	28°49'37"	30°00'00"	30°09'24"	30°19'43"	30°30'56"

**DIMENSION I**

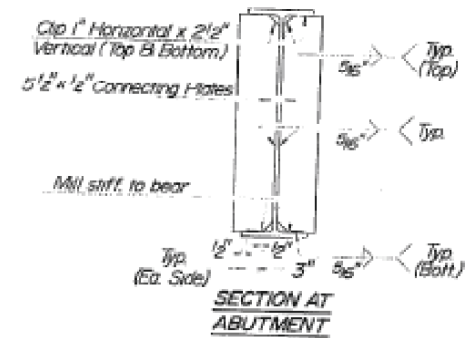
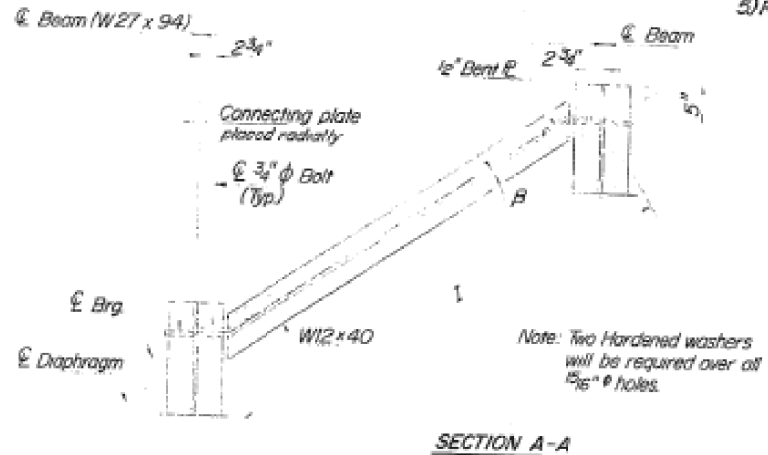
LOC.	BK	BTWN BMS 1 & 2	BMS 2 & 3	BTWN BMS 3 & 4	BMS 4 & 5	BTWN BMS 5 & 6	BMS 6 & 7	BTWN BMS 7 & 8
Brig. N. Abut.		8'-7 3/4"	8'-7 3/4"	8'-7 3/4"	8'-8"	8'-8 1/4"	8'-8 3/4"	8'-8 3/4"
Brig. S. Abut.		8'-2 3/4"	8'-3 1/4"	8'-3 1/4"	8'-3 3/4"	8'-3 3/4"	8'-3 3/4"	8'-3 3/4"

**VALUE OF B**

LOC.	BK	BTWN 1 & 2	BTWN 2 & 3	BTWN 3 & 4	BTWN 4 & 5	BTWN 5 & 6	BTWN 6 & 7	BTWN 7 & 8
Brig. N. Abut.		3°40'56"	3°41'21"	3°42'08"	3°42'36"	3°43'08"	3°43'57"	3°44'28"
Brig. S. Abut.		3°23'04"	3°23'30"	3°24'12"	3°24'56"	3°25'40"	3°26'24"	3°27'08"



- DIAPHRAGM D<sub>2</sub> CONSTRUCTION SEQUENCE**
- Order Diaphragm D<sub>2</sub> in two sections with lengths of 4'-6" & 2'-7" S. Abut. and 5'-1" & 2'-8" N. Abut.
  - Attach section (1) of Diaphragm to Beam #4 and top flange splice  $\phi$  during Stage I Construction.
  - Place Timber Block Posts between section (1) of diaphragm and abutment bearing seat.
  - Attach section (2) of diaphragm to both Beam #5 and section (1) of diaphragm during Stage II Construction with splice plates.
  - Remove Timber Block Posts.

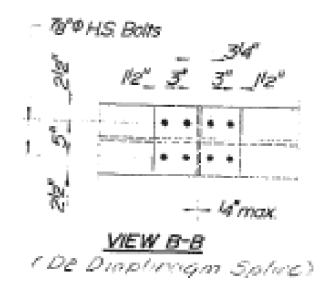
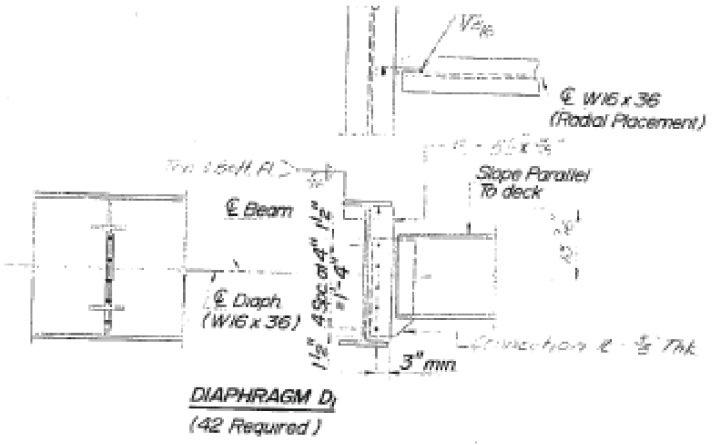
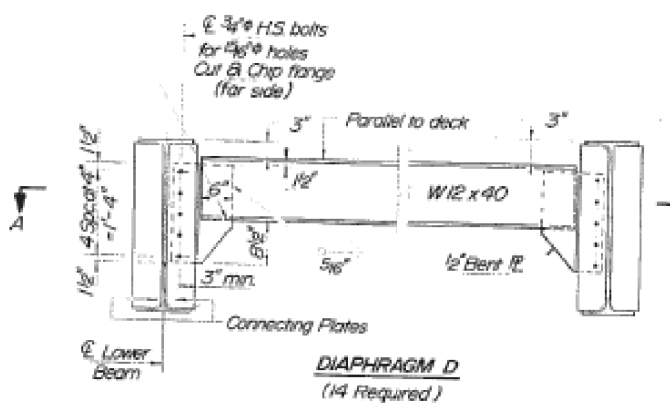
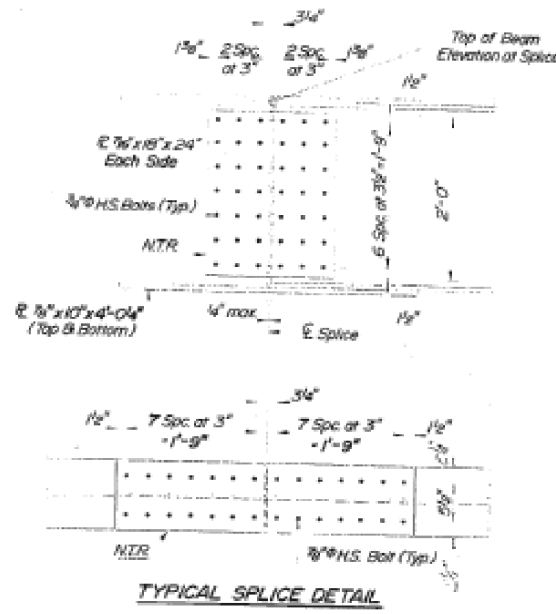


Notes: Work this sheet with Sheet No. 11 & 12 of 16

All connecting holes for Diaphragms shall be 1/16"  $\phi$ . Two hardened washers shall be required over all oversize holes.

All stringers, flange splice plates, web splice plates - M-223, Grade 50. All Diaphragms and Connection Plates - M-193.

All connecting holes for Diaphragms shall be 1/16"  $\phi$ . Two hardened washers shall be required over all oversize holes. See Sheet No. 8 of 16 Sheets.



**ALLEN HENDERSON & ASSOCIATES** CONSULTING CIVIL AND STRUCTURAL ENGINEERS  
SPRINGFIELD, ILL. PHONE: (217) 544-8033

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 2 D2 BRIDGE PAINTING 2014-1	LEE / OGLE	25	24	CONTRACT NO. 64J52

ILLINOIS