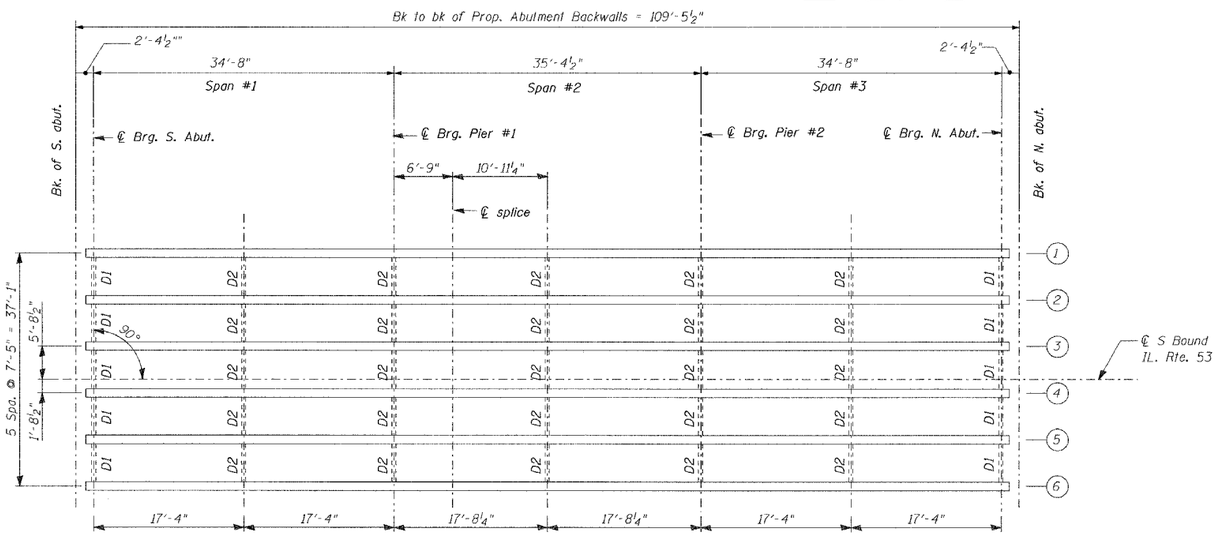
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. 846	4B-1-R	WILL	87	55
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

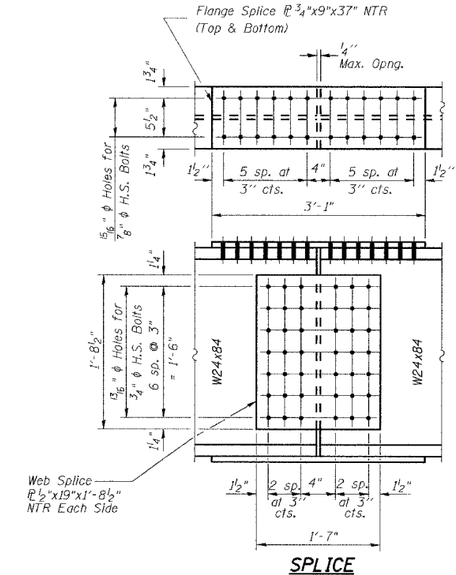
SHEET NO. S7
SHEETS S17

CONTRACT NO. 62269



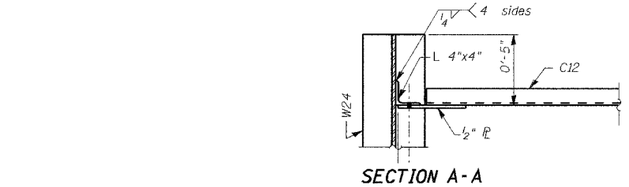
PLAN

Note:
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts, except as otherwise noted.
Individual diaphragms at support may be temporarily disconnected to install bearing anchor rods.

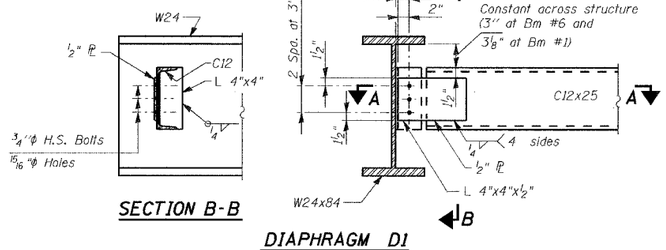


SPLICE
(6 Required)

NTR = Notch toughness requirement

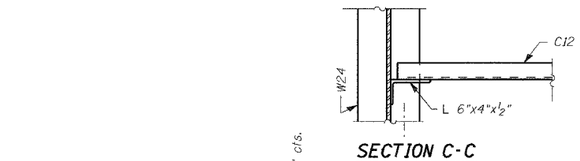


SECTION A-A

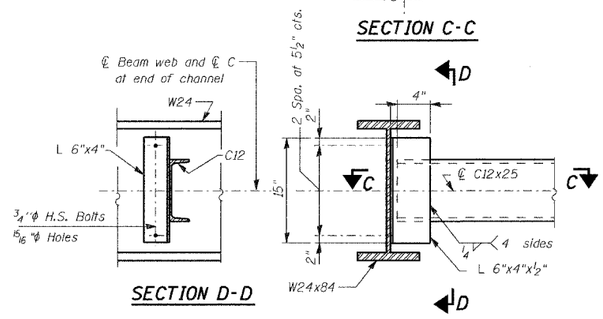


SECTION B-B

DIAPHRAGM D1
10 Required



SECTION C-C



SECTION D-D

DIAPHRAGM D2
25 Required

CONNECTION DETAILS FOR DIAPHRAGMS TO BEAMS

Note: Two hardened washers required for each set of oversized holes.

NOTES:

1. Install shear stud connectors in positive moment regions of the entire superstructure, as shown on sht. S8.
2. For cleaning and painting see general notes on sht. S2.
3. HS Bolts shall be AASHTO M164/ASTM A325.
4. Load carrying components designated " NTR" shall conform to the supplemental requirements for Notch toughness, Zone 2.

DESIGNED	NDS/GMK
CHECKED	MTP/SMK/GBC
DRAWN	NDS/GMK
CHECKED	SMK/GBC

ILLINOIS DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND STRUCTURAL STEEL DETAILS
FAP 846
SB IL. ROUTE 53 OVER PRAIRIE CREEK
STATION 1305+00 SECTION 4B-1-R
WILL COUNTY
STRUCTURE NO. 099-0242
SCALE: NONE
DATE: AUGUST 2007

DELTA ENGINEERING INC.
CONSULTING ENGINEERS, CHICAGO ILLINOIS.