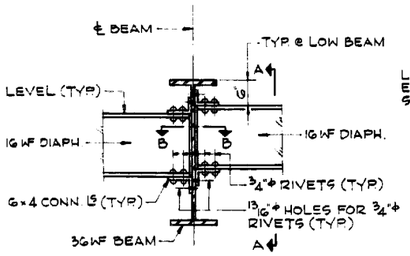
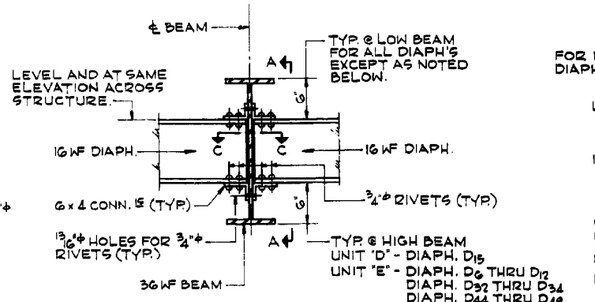


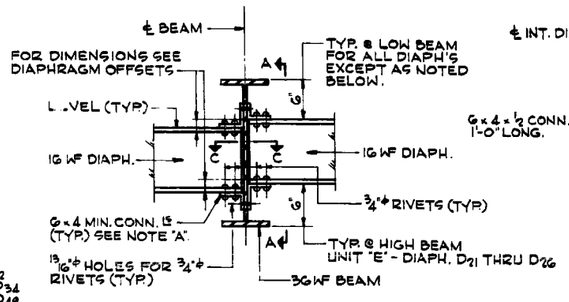
Int. Diaphragm Detail

UNIT "A" - DIAPHRAGMS D_9 THRU D_{18}
UNIT "C" - DIAPHRAGMS D_{15} THRU D_{36}
ALSO D_{10} (SPAN 7-8 ONLY)
UNIT "D" - DIAPHRAGMS D_{19} THRU D_{32}



Int. Diaphragm Detail

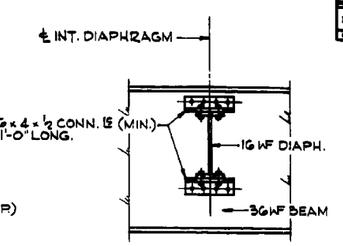
UNIT "C" - DIAPHRAGMS D_8, D_9 & D_{11} THRU D_{14}
ALSO D_{10} (SPAN 8-9 ONLY)
UNIT "D" - DIAPHRAGMS D_{14} THRU D_{18}
UNIT "E" - DIAPHRAGMS D_5 THRU D_{16} & D_{32} THRU D_{67}



Note "A":
ALL DIAPHRAGMS BETWEEN ADJACENT STRINGERS SHALL BE MADE LEVEL BY VARYING THE GAUGE AND/OR SIZE OF THE CONNECTION ANGLES AS REQUIRED.

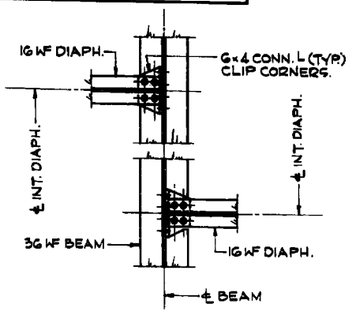
Int. Diaphragm Detail

JNIT "E" - DIAPHRAGMS D_{17} THRU D_{31}



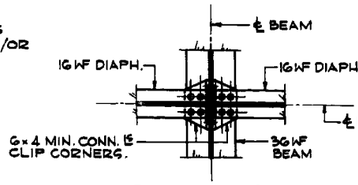
Section A-A

SCALE: ¾" = 1'-0"



Section B-B

SCALE: ¾" = 1'-0"



Section C-C

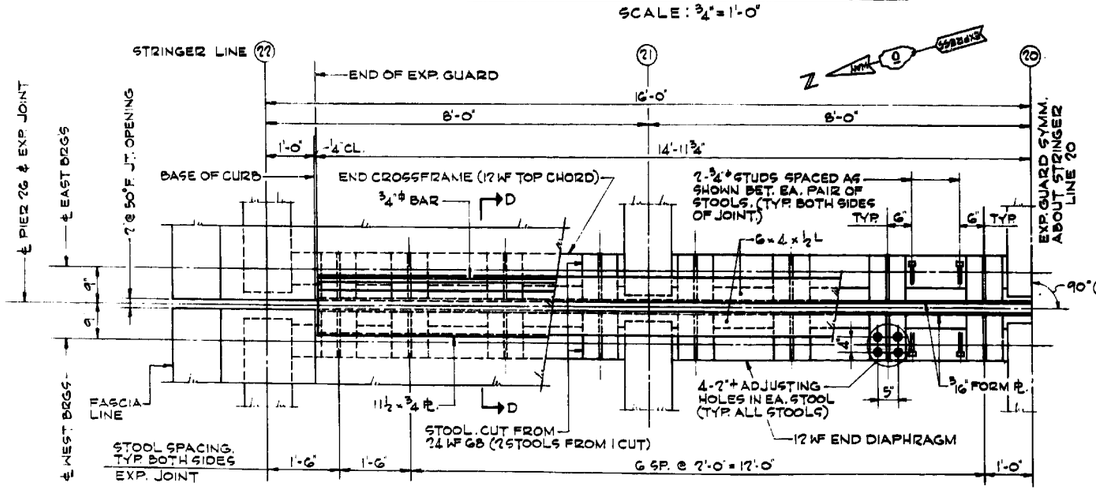
SCALE: ¾" = 1'-0"

DIAPH. LINE A	4 7/16"	5 5/8"	2 11/16"
DIAPH. LINE B	3 11/16"	4 3/8"	3"
DIAPH. LINE C	3 5/8"	3 3/8"	2 13/16"
DIAPH. LINE D	3 5/8"	3"	2 3/16"
DIAPH. LINE E	2 15/16"	2 9/16"	2 3/16"
DIAPH. LINE F	1 15/16"	2 7/16"	1 15/16"
DIAPH. LINE G	1 5/8"	2"	1 1/4"

Details of Intermediate Diaphragms - For all Units

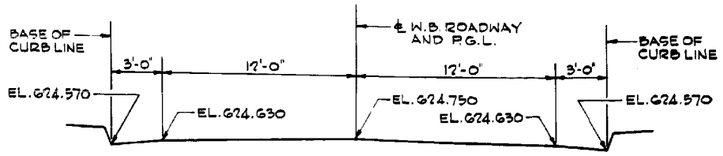
FOR DIAPHRAGM LOCATIONS, SEE FRAMING PLANS
FOR END DIAPHRAGM DETAILS, SEE SH. 73

SCALE: ¾" = 1'-0"



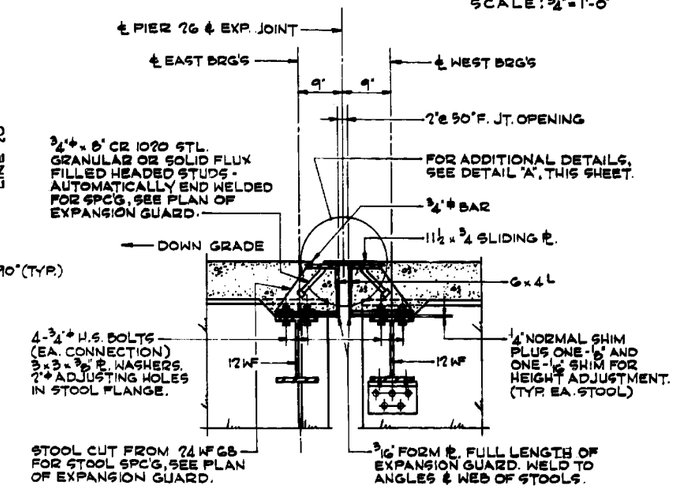
Half-Plan Sliding ℄ Expansion Guard @ Pier 26

SCALE: ¾" = 1'-0"



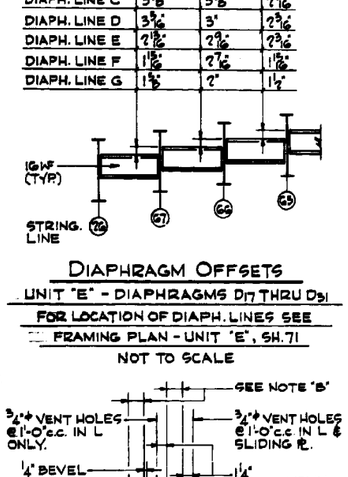
Elevation
W.B. Roadway Profile @ ℄ Pier 26

PROFILE IS A STRAIGHT LINE BETWEEN ELEVATIONS SHOWN



Section D-D

SCALE: 1" = 1'-0"



Diaphragm Offsets

UNIT "E" - DIAPHRAGMS D_{17} THRU D_{31}
FOR LOCATION OF DIAPH. LINES SEE FRAMING PLAN - UNIT "E", SH. 71
NOT TO SCALE

Note "B": 2'@ 30° F. JOINT OPENING. SEE DECK JOINT GUARD NOTES FOR OTHER JOINT OPENINGS.

Detail "A"

SCALE: 1½" = 1'-0"

Deck Joint Guard Notes:

SEE ARTICLE 51-13d OF THE STANDARD SPECIFICATIONS FOR SLIDING PL. & DECK JOINT EXPANSION GUARD OPENINGS.
FOR STRUCTURAL STEEL NOTES, SEE SH. 3.
ALL GUARD ASSEMBLIES SHALL BE FABRICATED & ERECTED TO CONFORM TO THE ROADWAY CROWN AND SLOPE OF GRADE AT THE GUARD. THEY SHALL BE ASSEMBLED IN THE SHOP FOR INSPECTION.
ALL PARTS OF THE GUARD ASSEMBLIES INCLUDING STUDS SHALL BE INCLUDED IN STRUCTURAL STEEL FOR PAYMENT.

Note:
FOR BILL OF MATERIAL OTHER THAN FOR SLIDING PL. EXPANSION GUARD SEE SH. 63, 68, 69 & 71.

Bill of Material *

ITEM	UNIT	QUANTITY
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3,862

* INCLUDES STRUCTURAL STEEL FOR SLIDING PL. EXPANSION GUARD ONLY.

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY V.K. BURKEVICS
DRAWN BY J.A. CHALIKIS
CHECKED
IN CHARGE E.S. MARTINS
APPROVED L.N. RIAN

ILLINOIS DIVISION OF HIGHWAYS
SOUTHWEST EXPRESSWAY

LAWNDALE AVE. VIADUCT
INTERMEDIATE DIAPHRAGMS AND SLIDING PLATE AT PIER No. 26

SCALE: AS NOTED | DATE 11-25-03

benesch
engineers · scientists · planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10093

FOR INFORMATION ONLY

FILE NAME = 0162457_60J16_107_existplan24.dgn	USER NAME = tjanicke	DESIGNED - FSM	REVISED -
		CHECKED - RMM	REVISED -
	PLOT SCALE =	DRAWN - FSM	REVISED -
	PLOT DATE = 12/20/2013	CHECKED - RMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLAN INFORMATION (24 OF 26)
STRUCTURE NO. 016-2457
SHEET NO. SDX24 OF SDX26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	482
		CONTRACT NO. 60J16		
	ILLINOIS	FED. AID PROJECT		

6/23/2014 2:42:18 PM X:\10000S\10093\Eng_Docs_Phase_II\SN_016_2456_2457_1st_Ave_over_Des_Plaines_River_Valley\Final\2457 Final\0162457_60J16_107_existplan24.dgn