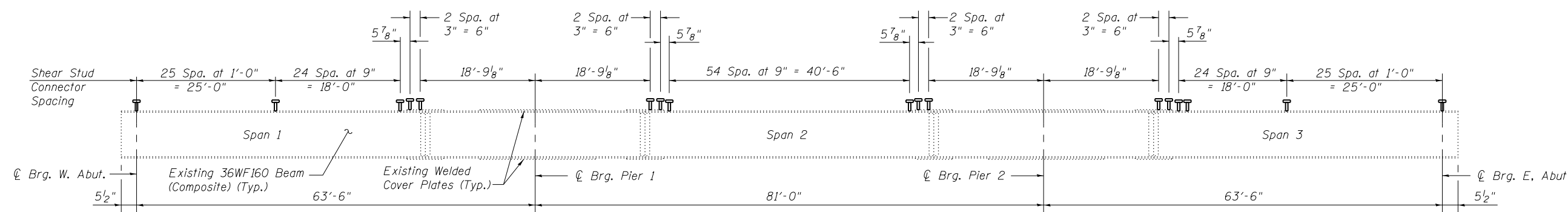
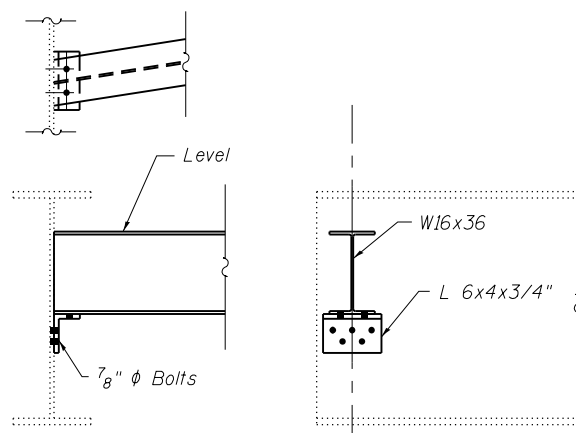


**FRAMING PLAN**



**BEAM ELEVATION**



**DIAPHRAGM D DETAILS**

(8 Required)

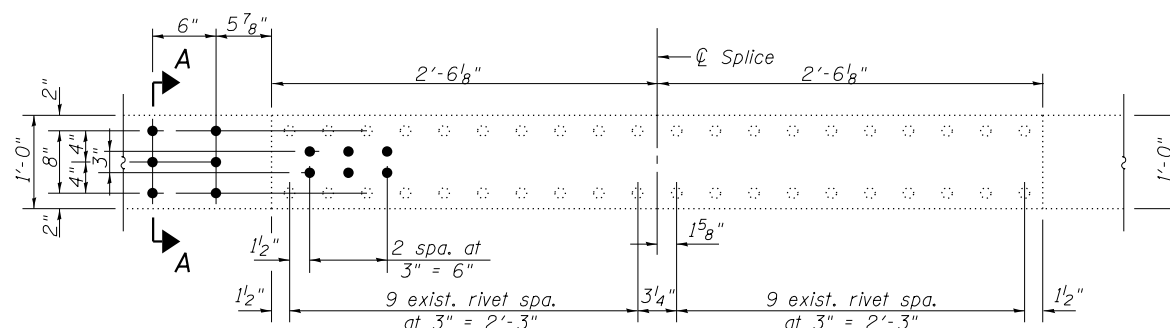
**Notes:**

Diaphragm and clip angles shall be paid for as Furnishing and Erecting Structural Steel.

All new fasteners shall be high strength bolts. Holes shall be subpunched or subdrilled  $\frac{1}{16}$ " dia. and reamed in the field to  $\frac{1}{8}$ " dia. for  $\frac{7}{8}$ " dia. bolts, unless otherwise noted. Cost included with Furnishing and Erecting Structural Steel.

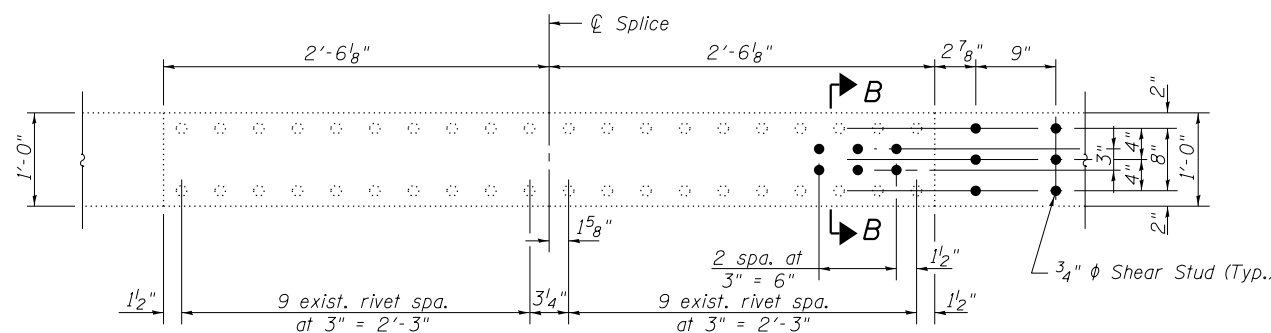
Two hardend washers shall be required over all oversized holes for diaphragms.

Removal of existing diaphragms, angles and rivets shall be included in the cost of Structural Steel Removal.

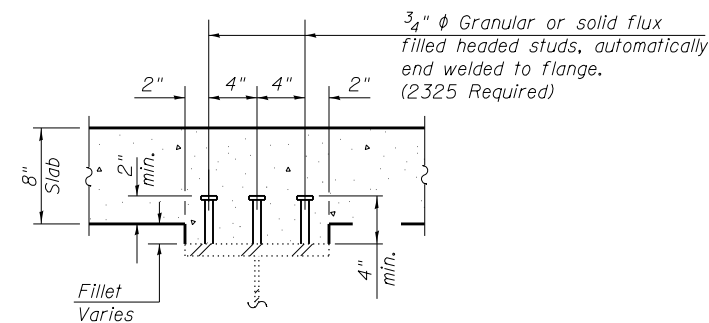


**SPAN 1 & 3 SPLICE & SHEAR STUD LAYOUT**

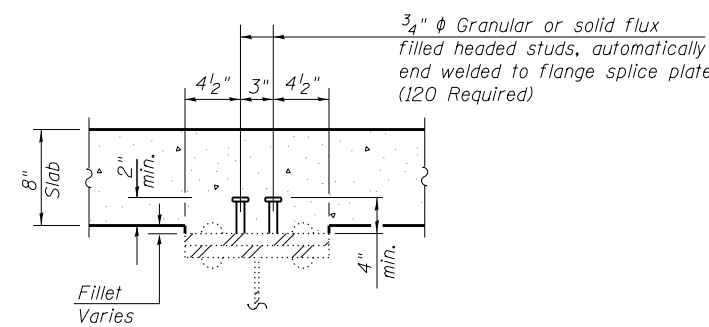
(Span 1 shown, Span 3 Similar)



**SPAN 2 SPLICE & SHEAR STUD LAYOUT**



**SECTION A-A**



**SECTION B-B**

FILE NAME = 0790020-76409-012-Struct Steel.dwg	USER NAME = bselbel	DESIGNED - BB	REVISED -
BERNHARDEN LOCHMUELLER & ASSOCIATES, INC. 3 OAK DRIVE MARYVILLE, IL 62428 PHONE (618) 281-4666 FAX (618) 281-4666	Illinois Design Firm Number 184,001670	CHECKED - ACS	REVISED -
	PLOT SCALE =	DRAWN - WJS	REVISED -
	PLOT DATE = 11/33:55 AM 8/13/2014	CHECKED - CJF	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL DETAILS  
STRUCTURE NO. 079-0020**

SHEET NO. 12 OF 26 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
858	12VB-II	RANDOLPH	72	58
CONTRACT NO. 76409				
ILLINOIS FED. AID PROJECT				