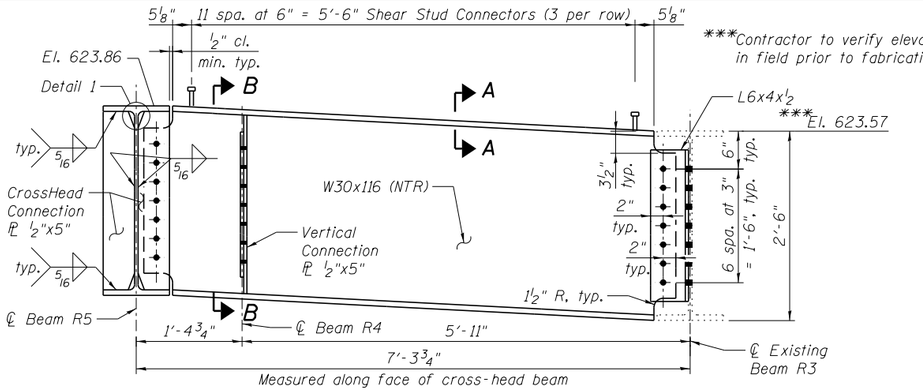
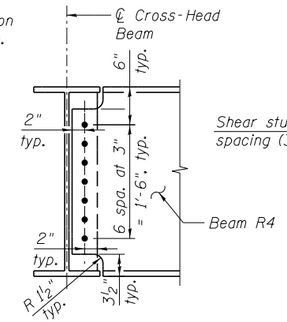
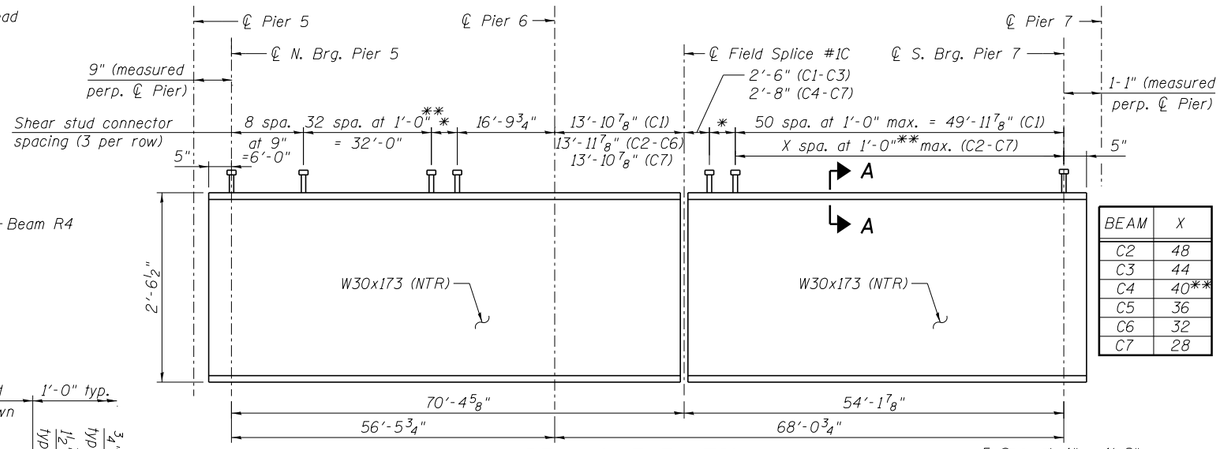


CROSS-HEAD BEAM ELEVATION

(Looking East)



SECTION B-B



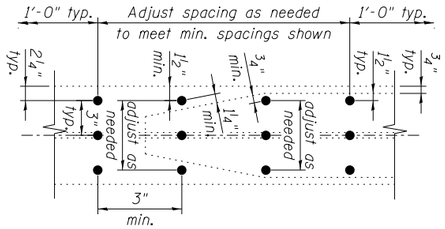
BEAM	X
C2	48
C3	44
C4	40**
C5	36
C6	32
C7	28

BEAM C1 ELEVATION

(Shear Stud Connector spacing also applicable for existing Beams C2-C7)

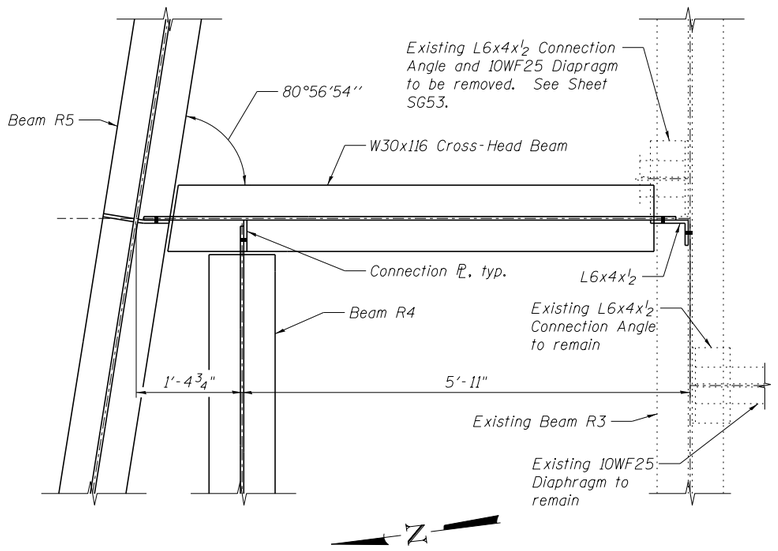
* 5 Spa. at 4" = 1'-8"

** Adjust spacing to miss bolts in cover ℄ retrofit at Beam C4. See Stud Spacing at Cover ℄'s detail.

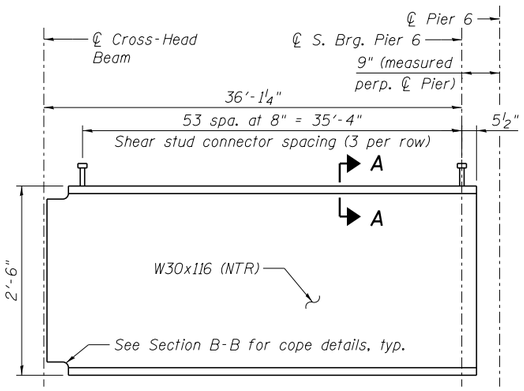


STUD SPACING AT COVER ℄'S

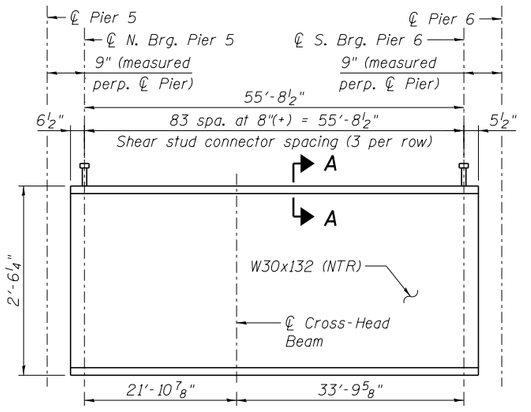
Minimum spacings and edge distances shown are to ℄ stud.



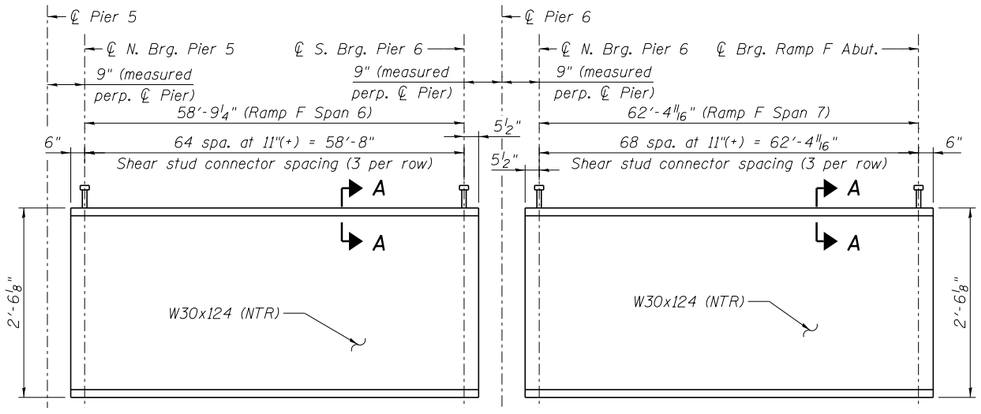
CROSS-HEAD BEAM FRAMING PLAN



BEAM R4 ELEVATION



BEAM R5 ELEVATION



BEAM R1 ELEVATION

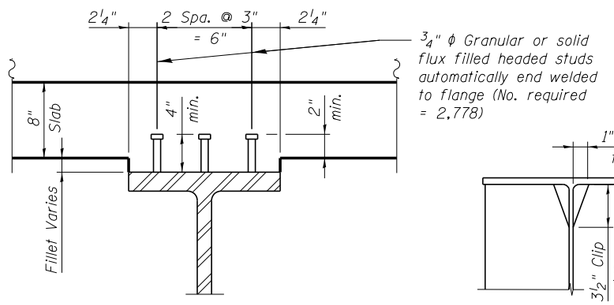
NOTES:

1. All Rolled Beams, including Cross-Head Beam shall be AASHTO Grade 50 Steel.

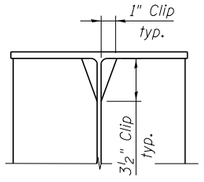
2. All diaphragms between beams shall be installed as steel is erected and secured with erection pins and bolts.

3. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts ¾" ϕ, holes 15/16" ϕ. Two hardened washers required for each set of oversized holes.

4. Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.



SECTION A-A



DETAIL 1

(Typical top & bottom flanges)

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

FILE NAME = 0160486_60J16_057_Girder_Elev_6thru7.dgn	USER NAME = jsurber	DESIGNED - TJJ	REVISED -
		CHECKED - AJK/LRB	REVISED -
	PLOT SCALE =	DRAWN - TJJ	REVISED -
	PLOT DATE = 8/6/2014	CHECKED - AJK/LRB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER ELEVATIONS AND DETAILS – SPANS 6 AND 7
STRUCTURE NO. 016-0486
SHEET NO. SG57 OF SG100 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	2013-038B-R	COOK	821	647
		CONTRACT NO. 60J16		
		ILLINOIS FED. AID PROJECT		

8/6/2014 7:30:39 PM Y:\chicago\10000s\10093\Eng_Docs_Phase_II\SN_016_0486_0487_1st_Ave_over_Canal\Final\0486\0160486_60J16_057_Girder_Elev_6thru7.dgn