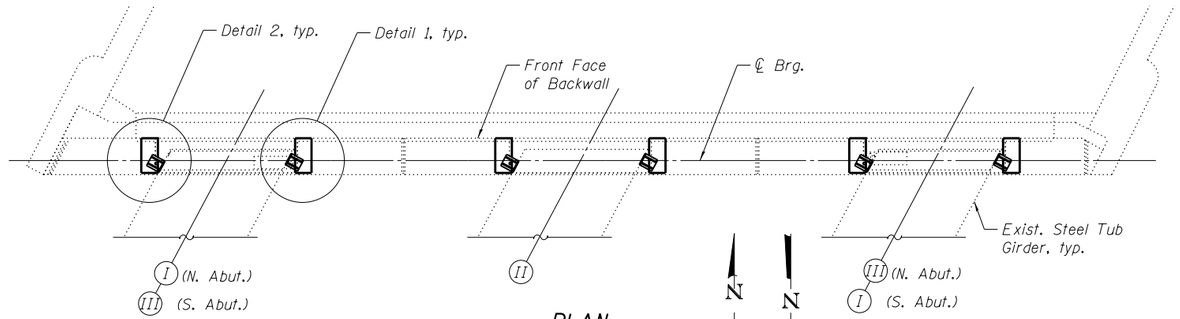
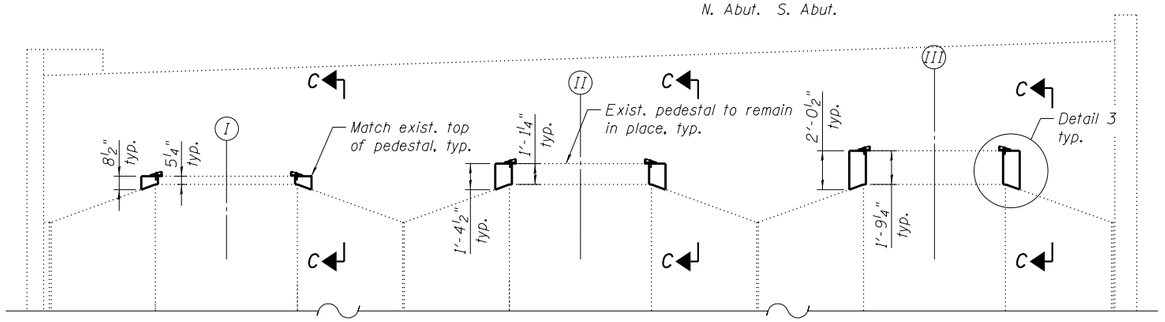
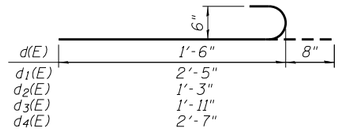


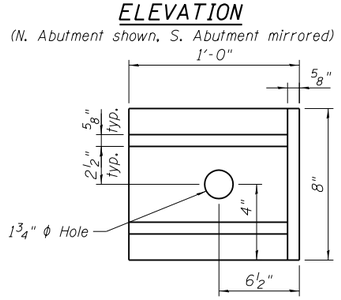
PLAN



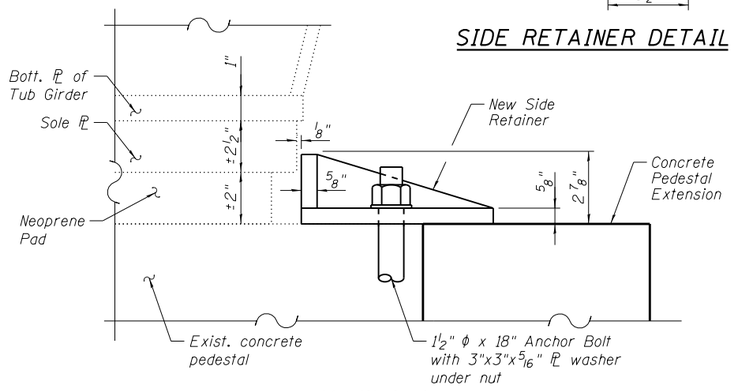
ELEVATION



BARS d(E), d1(E), d2(E) d3(E) & d4(E)

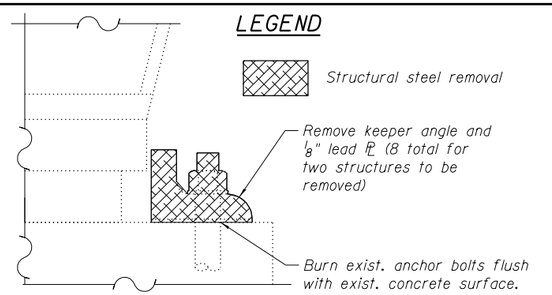


SIDE RETAINER DETAIL



VIEW A-A

VIEW B-B (mirrored)



LEGEND

REMOVAL DETAIL

Notes:

All structural steel shall conform to AASHTO M270 Grade 50.

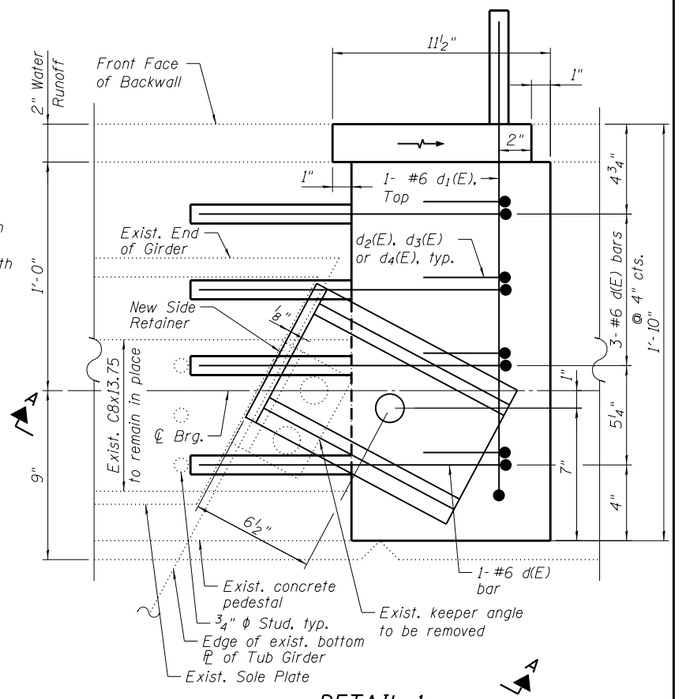
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) Grade 36 of the diameter specified. The corresponding Grade 36 AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for side retainers may be cast in place or installed in holes drilled after pedestal extension is completed.

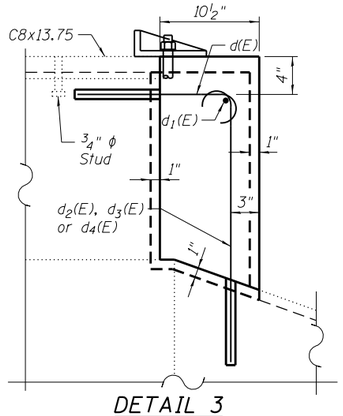
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Cost of removal and disposal of existing anchor bolts, nuts, keeper angles and ⅛" lead ℄'s and installation of new side retainers shall be included with Structural Steel Repair. Estimated new steel weight at each structure = 300 pounds.

Epoxy grout all reinforcement bars in 9" minimum drilled holes according to Section 584 of the Standard Specifications.

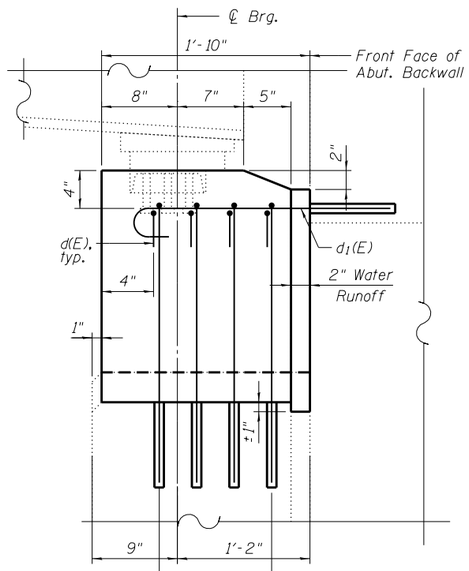


DETAIL 1



DETAIL 3

(East of Girder shown. West of Girder mirrored)

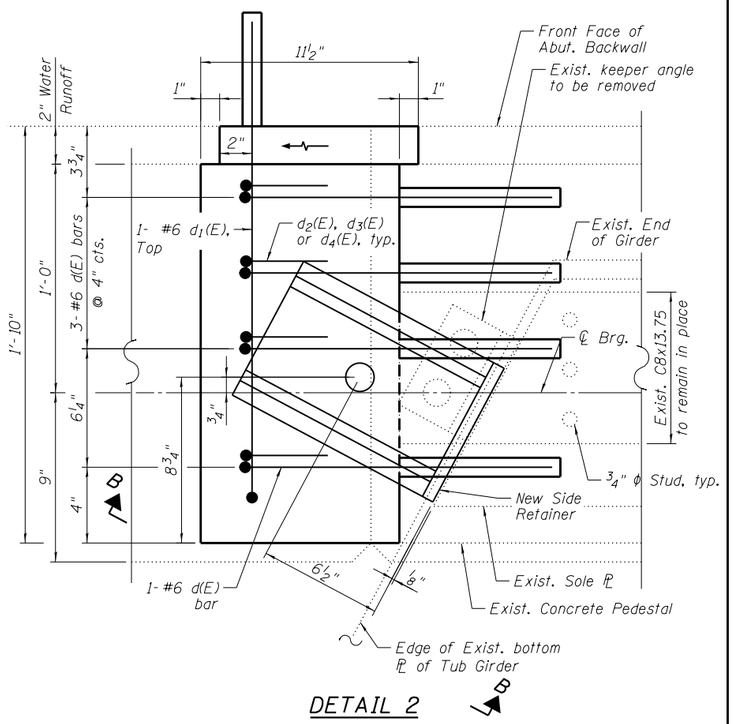


VIEW C-C

FOUR ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	96	#6	2'-2"	
$d_1(E)$	24	#6	3'-1"	
$d_2(E)$	32	#6	1'-11"	
$d_3(E)$	32	#6	2'-7"	
$d_4(E)$	32	#6	3'-3"	
Reinforcement Bars, Epoxy Coated			Pound	800
Concrete Structures			Cu Yd	2.0
Structural Steel Repair			Pound	600
Anchor Bolts, 1½"			Each	24

Girder I — Same spacing as d(E) bars — 4- #6 $d_2(E)$ bars
Girder II — 4- #6 $d_3(E)$ bars
Girder III — 4- #6 $d_4(E)$ bars



DETAIL 2

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - IYL	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN - MTR	REVISED -
PLOT DATE = 03/29/2013	CHECKED - IYL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDE RETAINER REPLACEMENT & PEDESTAL EXTENSIONS
STRUCTURE NOS. 016-2441 & 016-2442
SHEET NO. S-10 OF S-31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2012-059-BR	COOK	631	566
		CONTRACT NO. 60J12		
	ILLINOIS FED. AID PROJECT			

2:55:05 PM
3/29/2013
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