

From: [Daly, Keith](#)
To: ["vernonu@americanconstco.com"](mailto:vernonu@americanconstco.com);
cc: ["Kevin Culbert \(KevinC@americanconstco.com\)"](mailto:Kevin.Culbert@americanconstco.com); [Green, Frank](#); [Peppers, Nicki](#);
[Degenhart, Mark](#);
Subject: FW: Contract 8078 - Bubble Curtain Shop Drawing submittal
Date: Monday, January 31, 2011 11:26:02 AM
Attachments: [8078 - Rainer Bubble Curtain Shop Plans.pdf](#)

Vernon,

Please find attached Approved as Noted Bubble Curtain Shop Drawings. Please let me know if you have any questions.

Thanks,

Keith Daly
Assistant Business Manager

Columbia River Crossing Project | <mailto:dalyk@columbiarivercrossing.org>
700 Washington St. Suite 300, Vancouver, WA 98660
office: 360.816.8870 | Office: 503.256.2726 Ext. 8870
Fax: 360.737.0294

From: Olk, John [<mailto:OlkJ@wsdot.wa.gov>]
Sent: Monday, January 31, 2011 11:14 AM
To: Green, Frank; Daly, Keith
Cc: Peppers, Nicki
Subject: RE: Contract 8078 - Bubble Curtain Shop Drawing submittal

This is Approved as Noted.

John Olk P.E.
WSDOT Bridge Construction Support Engineer
360-705-7395
Check Submittal Status Online: <http://www.wsdot.wa.gov/eesc/bridge/conlog/>

From: Green, Frank [<mailto:greenf@columbiarivercrossing.com>]
Sent: Wednesday, January 26, 2011 8:38 AM
To: Olk, John
Cc: Daly, Keith; Lewis, Ron
Subject: FW: Contract 8078 - Bubble Curtain Shop Drawing submittal

John,

Attached is a .pdf of the shop drawings our contractor is in the process of submitting for C8087. The hard copies are in the mail.

From: Vernon Uy [mailto:vernonu@americanconstco.com]
Sent: Tuesday, January 25, 2011 4:40 PM
To: Green, Frank
Cc: Daly, Keith; Peppers, Nicki
Subject: Contract 8078 - Bubble Curtain Shop Drawing submittal

Hi Frank.

Attached you'll find the shopdrawing submittal for the Bubble Curtain rings (bottom and upper rings). This is to satisfy Section 1-01.3.

I still need to mail hard copies (11x17 sheets). Please provide me an address (and contact) to mail the shopdrawings to.

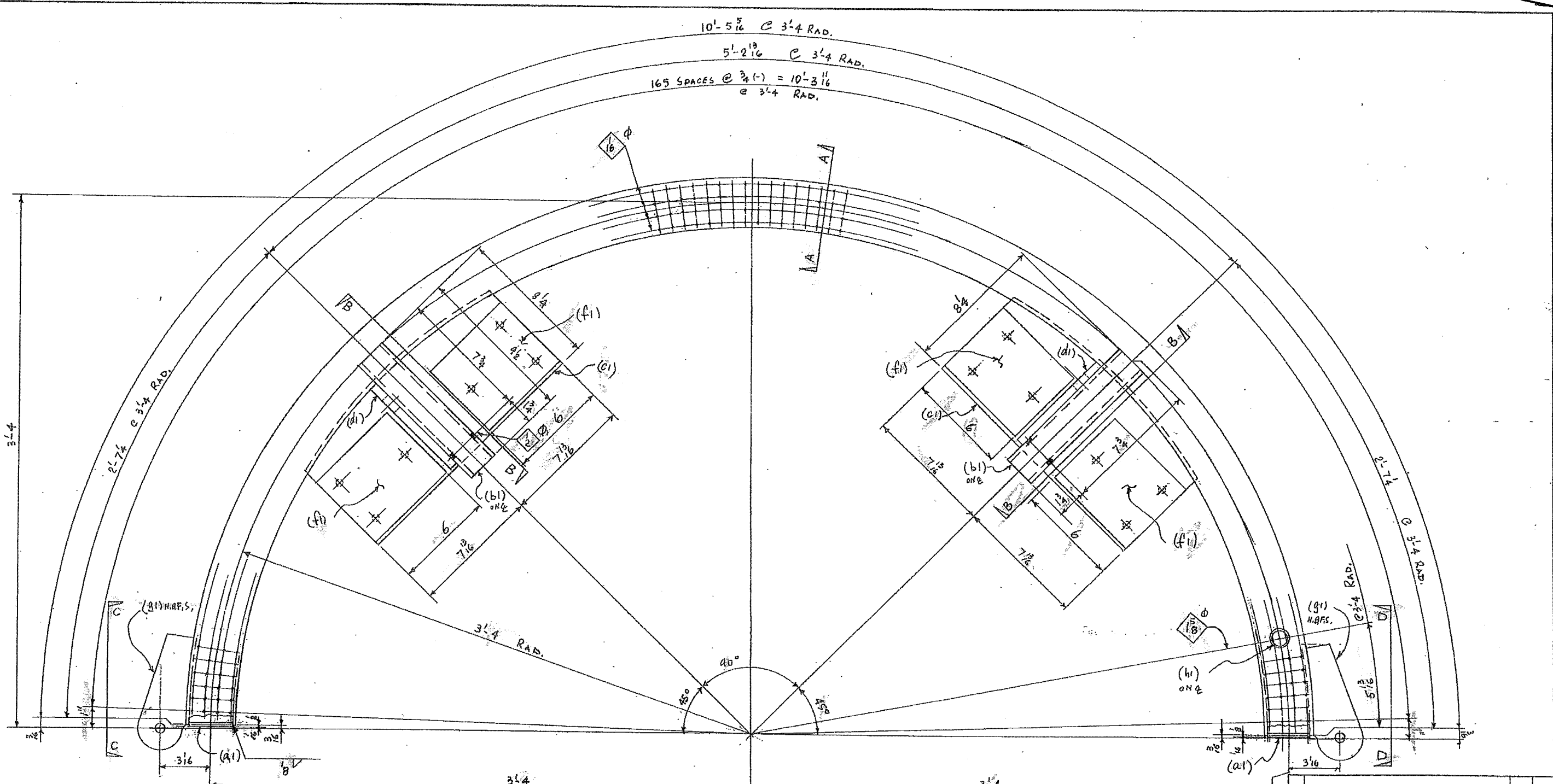
Thanks.

Vernon Uy
American Construction Company, Inc.
(425) 870-3217

*** eSafe scanned this email for malicious content ***
*** IMPORTANT: Do not open attachments from unrecognized senders ***

*** eSafe2 scanned this email for malicious content ***
*** IMPORTANT: Do not open attachments from unrecognized senders ***

*** eSafe scanned this email for malicious content ***
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WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION
BRIDGE AND STRUCTURES OFFICE
BY: CONSTRUCTION SUPPORT ENGINEER

DATE JAN 31 2011

GEOMETRY NOT REVIEWED

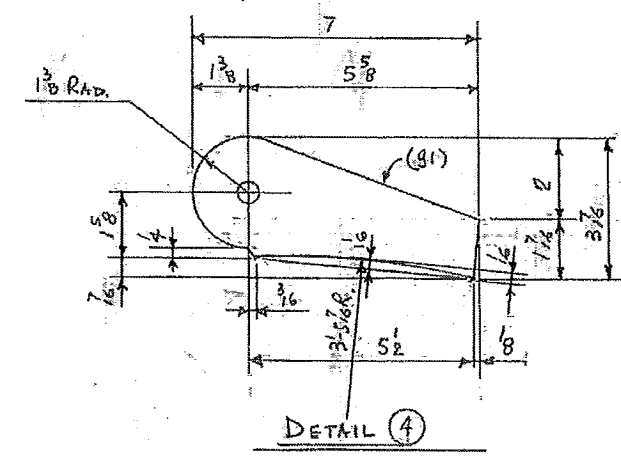
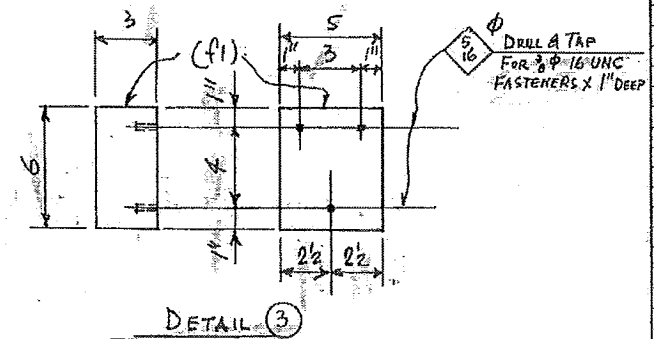
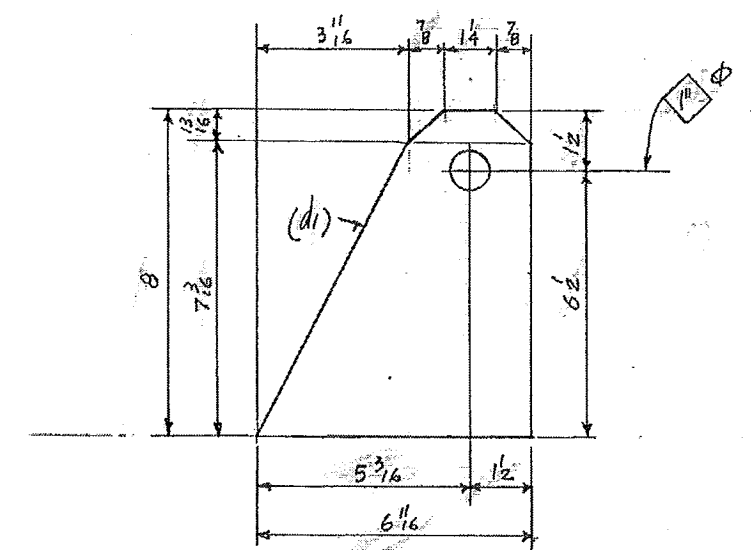
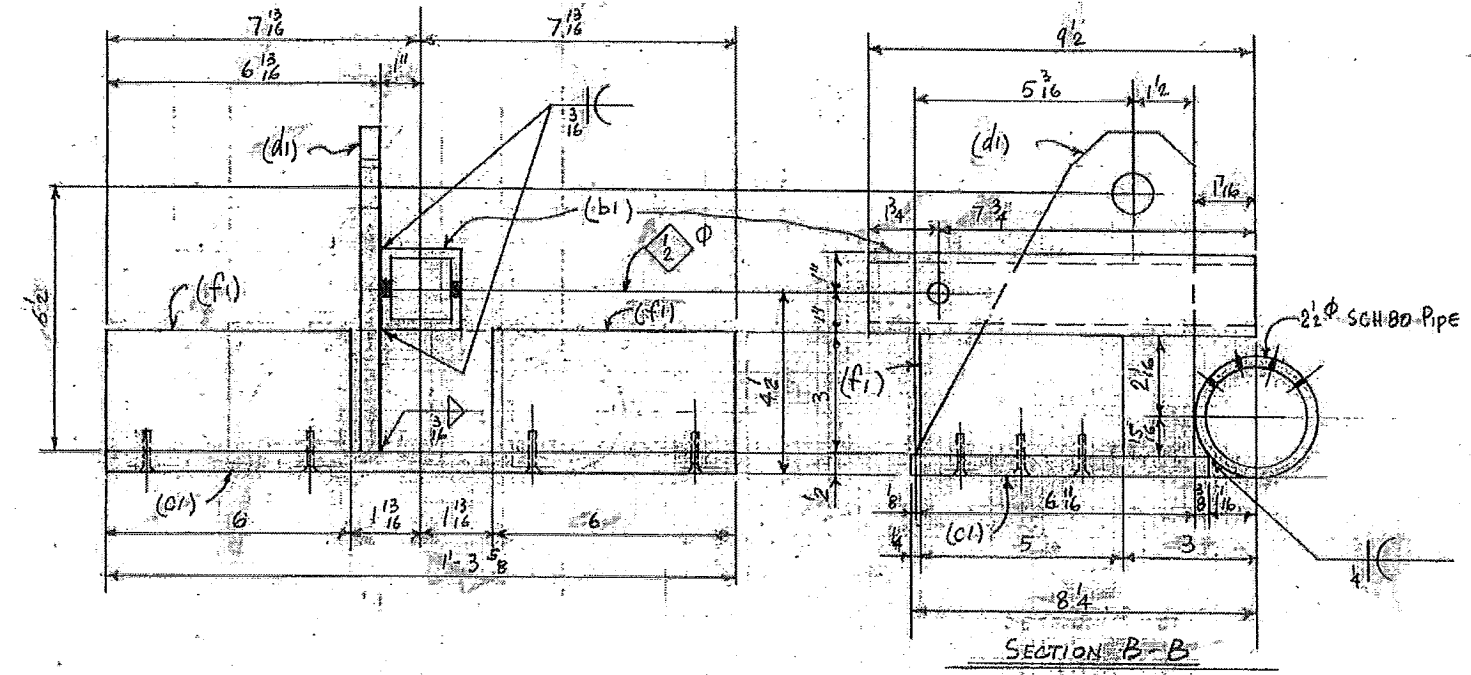
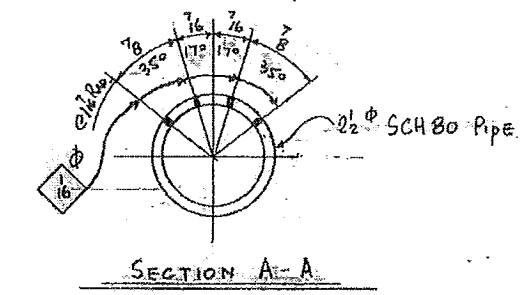
MAKE ONE ~ 2 1/2" SCH 80 PIPE x 10'-5 5/16" ~ MK 1A
ALUMINUM PIPE FOR BOTTOM RING, REF. NO 2

WORK THIS DWG. WITH DWG. 2
FOR FIELD BOLT LIST SEE DWG. 9

APPROVED JAS 1-28-2011

NO.	DESCRIPTION	DATE	BY
REVISION			
1	W.A.B.O.		
PARTS			
	DATE	REV	APPL
OVERCAGES			
13/16 UN			
PART NO PAINT			
RAINIER WELDING			
19020 NE 84TH STREET - REDMOND, WA 98053			
(425) 866-1300 FAX (425) 866-8872			
STEEL AND ALUMINUM FABRICATING			
ITEM BOTTOM RING			
JOB COLUMBIA RIVER BRIDGE			
TEMPORARY PILE TEST			
LOCATION I-5, WA.			
CONTRACT AMERICAN CONST.			
DESIGNED BY	DATE	JOB NO	CONTRACT NO
PE	J.M.R.	01-20-11	2860
			1

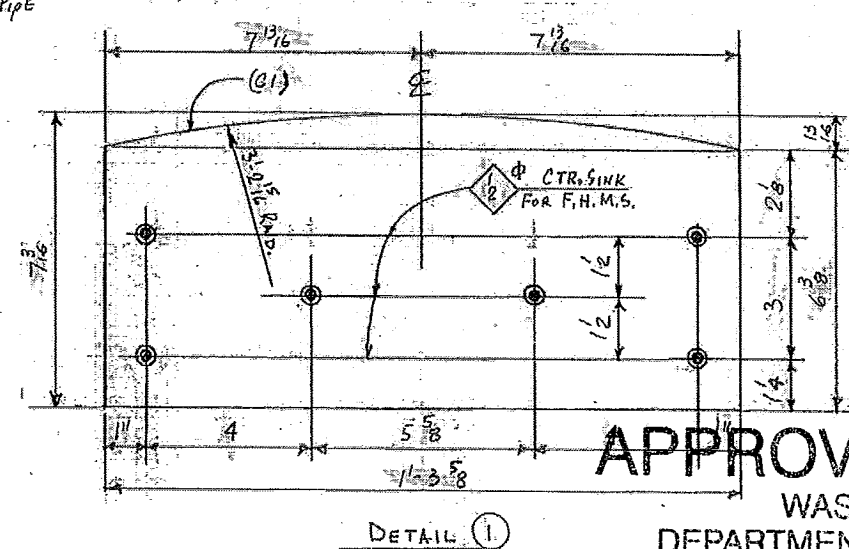
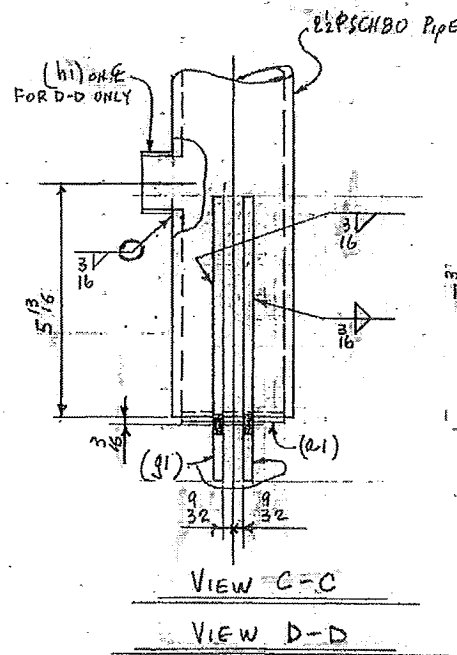
2 7/8 OD



BILL OF MATERIAL										
NO. TO EMP.	SHIP MARK	PART MARK	NO. POS.	SECTION	LENGTH		REMARKS	UNIT WT.	WEIGHT	P.O. NO.
					FT.	IN.				
ONE 1A				2 7/8 SCH 80 PIPE	10	5 7/8	ROLL			
		a1	2	PL 4 x 2 3/8	0	2 3/8				
		b1	2	TS 2 x 2 x 4	0	4 1/2				
		c1	2	PL 2 x 7 3/8	1	3 3/8	DET. 1			
		d1	2	PL 2 x 6 1/8	0	8	DET. 2			
		f1	4	PL 3 x 5	0	6	DET. 3, A36			
		g1	4	PL 4 x 3 1/8	0	7	DET. 4			
		h1	1	1 1/4" COMP. LANT.						
			12	3/8 F.H.M.S.	0	1	ST. ST.			

MATERIAL: AL 6061-T6, U.N.
MILL CERTS. REQ'D.

WORK THIS DWG. WITH DWG. 1



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BRIDGE AND STRUCTURES OFFICE
BY: CONSTRUCTION SUPPORT ENGINEER

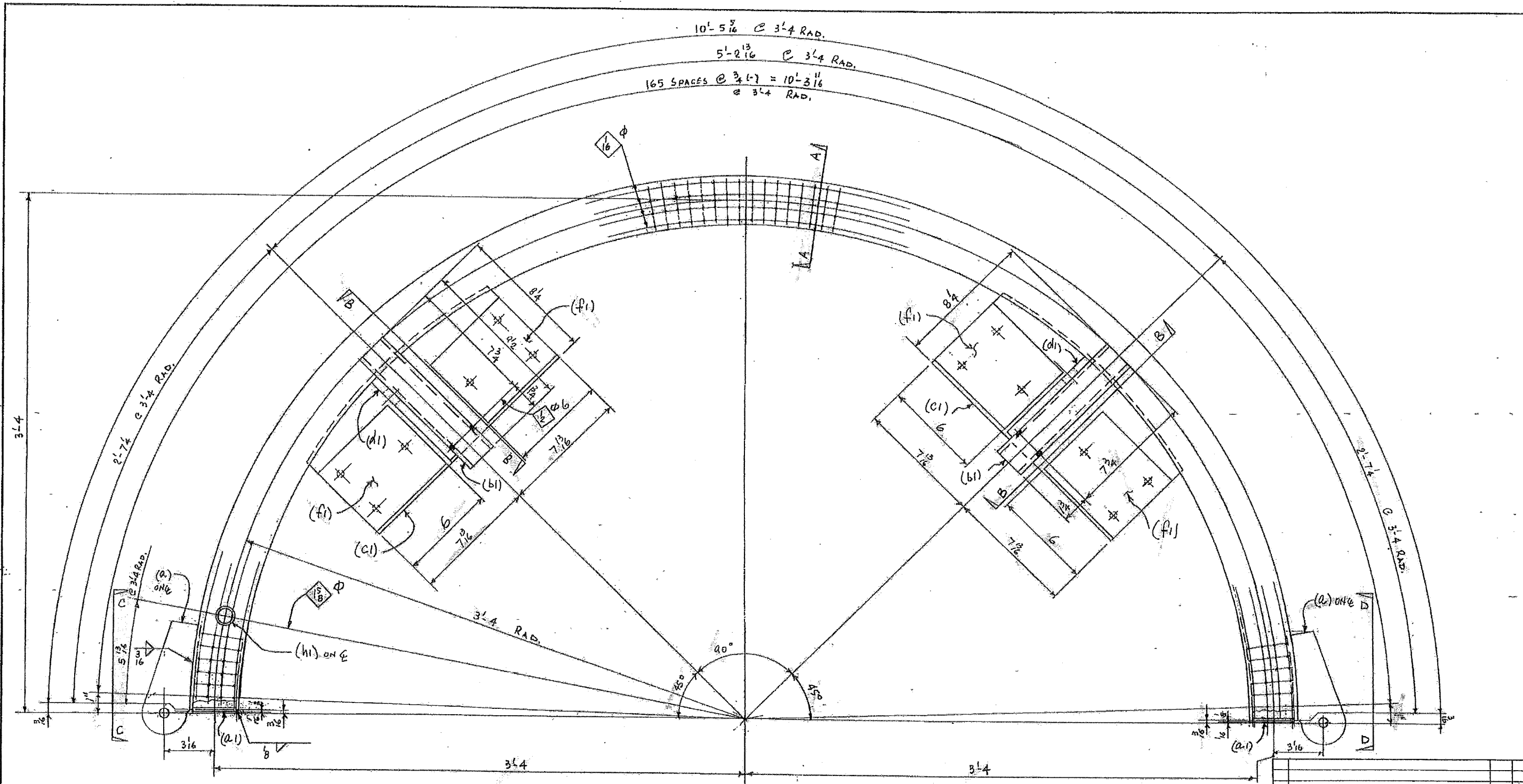
JAN 31 2011

DATE _____

GEOMETRY NOT REVIEWED

APPROVED JRS 1-28-2011

NO.	DESCRIPTION	DATE	BY
	REVISION		
	W. A. B. O.		
	DATE REV.	APPL.	SHOP
	FIELD		
	OPENHOLES 13/16 U.N.		
	NO. & LOC. OF DRILLS U.N.		
	PAINT NO PAINT		
RAINIER WELDING			
19020 NE BATH STREET - REDMOND, WA 98053			
(425) 888-1300 FAX (425) 888-8872			
STEEL AND ALUMINUM FABRICATING			
ITEM BOTTOM RING - SECTIONS - DETAILS			
JOB COLUMBIA RIVER BRIDGE			
TEMPORARY PILE TEST			
LOCATION I-5 WA			
CONTR. AMERICAN CONST.			
DATE	DESIGN BY	DATE	JOB NO.
PF	J.M.R.	01-21-11	2860
			DRWG. NO.
			REV
			2



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 BY: CONSTRUCTION SUPPORT ENGINEER
 JAN 31 2011

DATE _____

GEOMETRY NOT REVIEWED

MAKE ONE ~ 2 1/2" ϕ SCH 80 PIPE x 10'-5 5/16" ~ MK 3A
 ALUMINUM PIPE FOR BOTTOM RING, REF. NO. 2

WORK THIS DWG. WITH DWG. 4
 FIELD BOLT LIST FOR THIS DWG. SEE DWG. 9

APPROVED JRS 1-28-2011

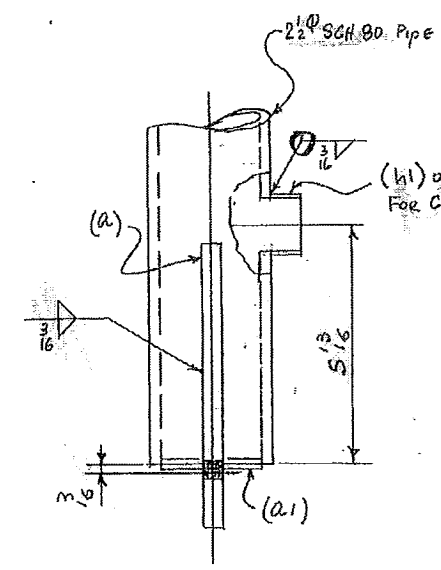
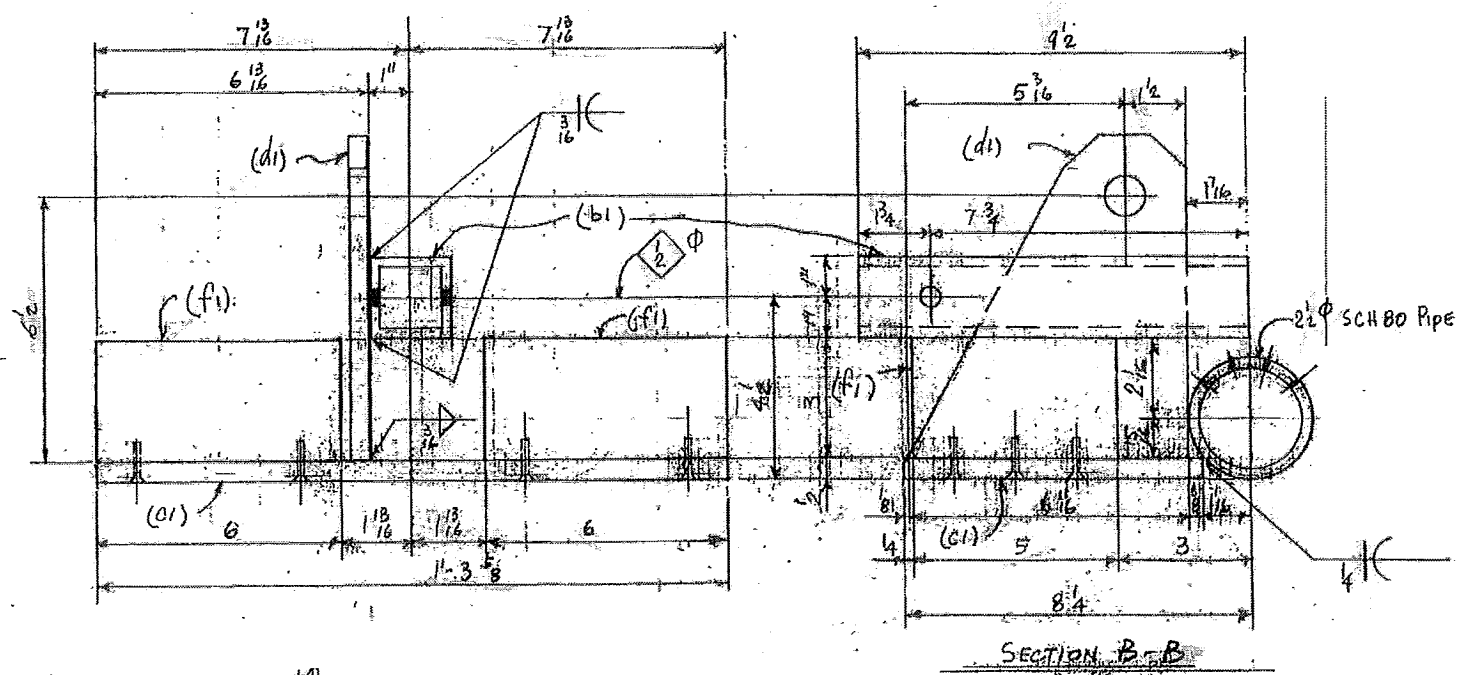
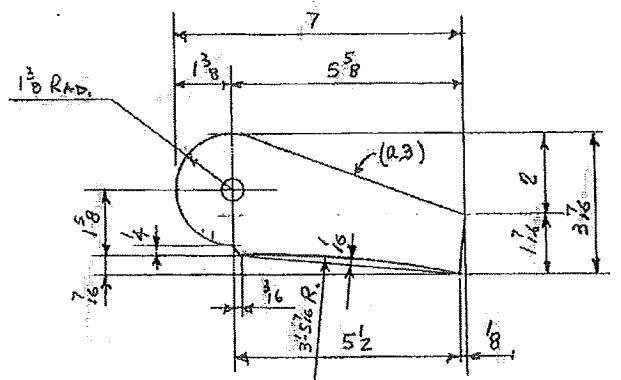
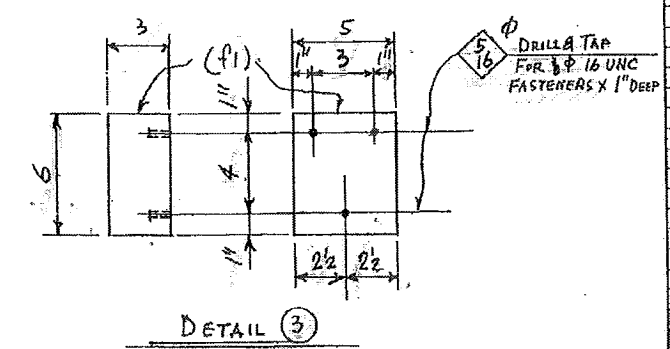
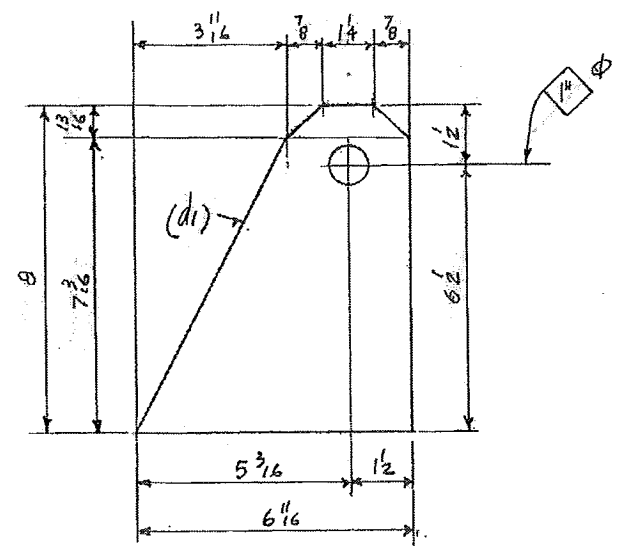
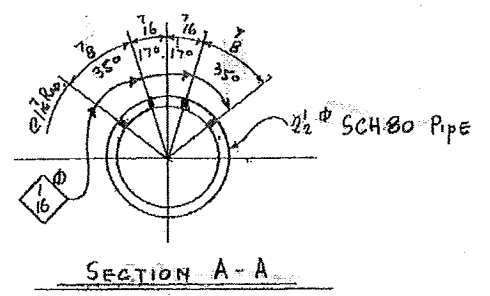
NO.	DESCRIPTION	DATE	BY
REVISION			
1	W.A.B.O.		
CONTRACTOR: RAINIER WELDING 19020 NE 84TH STREET - REDMOND, WA 98053 (425) 888-1300 FAX (425) 866-8872 STEEL AND ALUMINUM FABRICATING			
ITEM: BOTTOM RING			
JOB: COLUMBIA RIVER BRIDGE			
JOB: TEMPORARY PILE TEST			
LOCATION: I-5, WA.			
CONTRACTOR: AMERICAN CONST.			
DRAWN BY: PF	DATE: 01-21-11	JOB NO: 2860	DRWG NO: 3

BILL OF MATERIAL

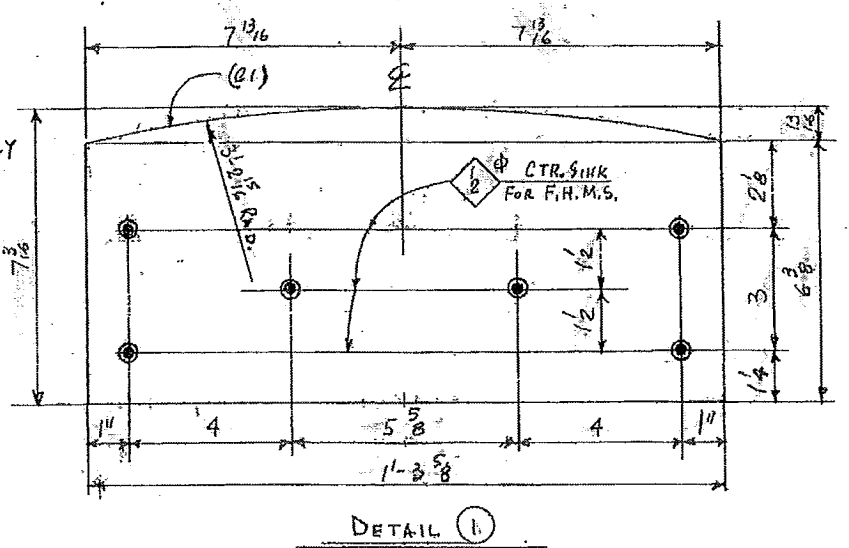
NO. TO SHIP	QTY	PART MARK	ASMT MARK	NO. PCS.	SECTION	LENGTH		REMARKS	UNIT WT.	P.O. NO.
						FT.	IN.			
ONE 3A					2 1/2" SCH 80 PIPE	10	5 5/8	ROLL		
	2	a2			PL 1/2 x 3 3/8	0	7 1/2	DET. 4		
	2	a1			PL 1/2 x 2 1/2	0	2 7/8			
	2	b1			TS 2 x 2 x 1/4	0	9 1/2			
	2	c1			PL 1/2 x 7 3/8	1	3 1/8	DET. 1		
	2	d1			PL 1/2 x 6 1/8	0	8	DET. 2		
	4	f1			PL 3/8 x 5	0	6	DET. 3, A36		
	1	h1			1/4" HALF COUPLER					
	12				3/8" F.H.M.S.	0	1	ST. ST.		

MATERIAL: AL 6061-T6, U.N.
MILL CERTS. REQ'D.

WORK THIS DWG. WITH DWG. 3



VIEW C-C
VIEW D-D

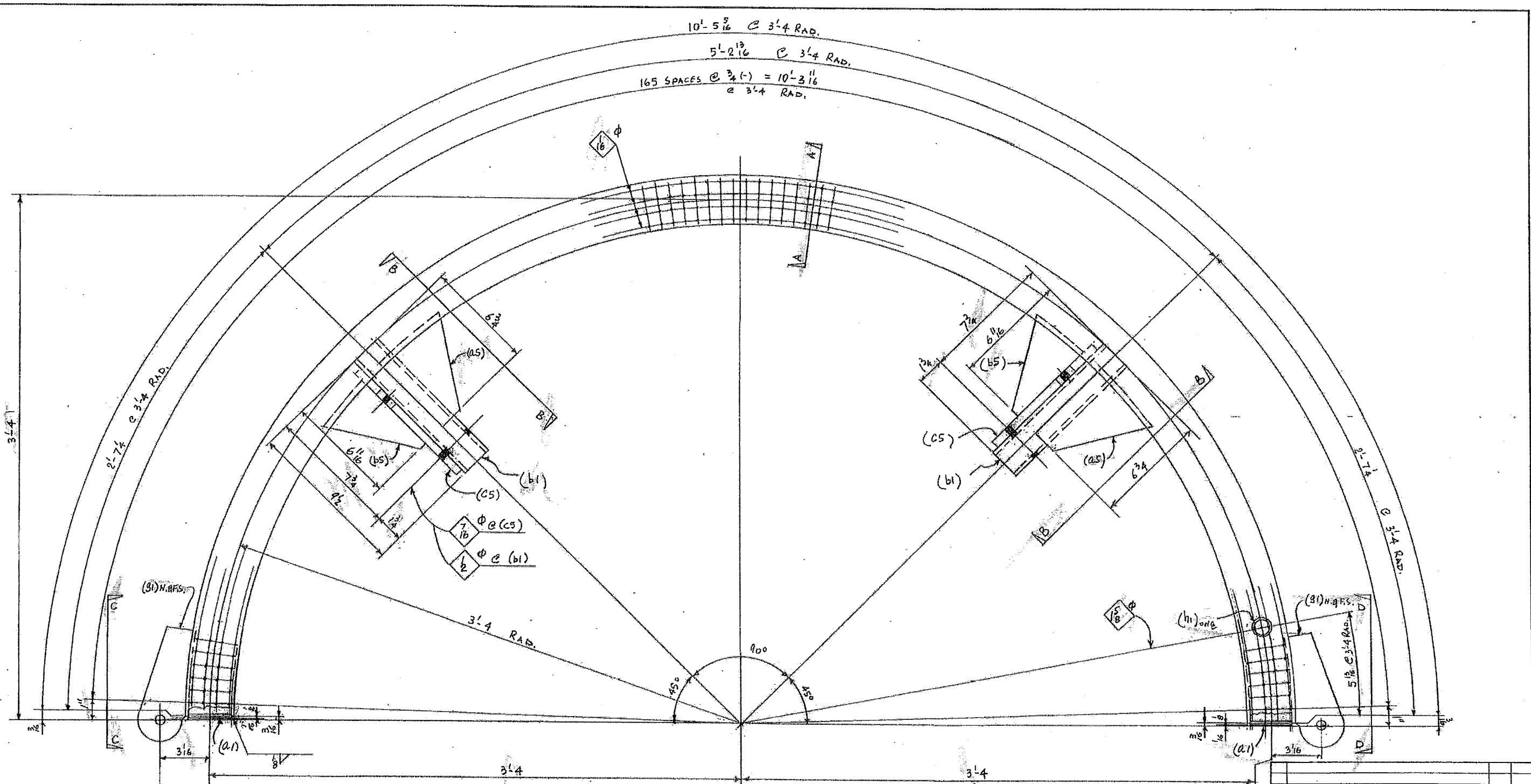


DETAIL 1

APPROVED AS NOTED
WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION
BRIDGE AND STRUCTURES OFFICE
BY: CONSTRUCTION SUPPORT ENGINEER
DATE: JAN 31 2011

GEOMETRY NOT REVIEWED
APPROVED JRR (2011)

NO.	DESCRIPTION	DATE	BY
	REVISION		
	W.A.B.O.		
	NO. PAINT		
<p>RAINIER WELDING 19020 NE 84TH STREET - REDMOND, WA 98053 (425) 888-1300 FAX (425) 888-8872 STEEL AND ALUMINUM FABRICATING</p>			
<p>BOTTOM RING ~ SECTIONS, DETAILS COLUMBIA RIVER BRIDGE TEMPORARY PILE TEST I-5, WA, AMERICAN CONST.</p>			
DRWN BY	CHKD BY	DATE	JOB NO.
PF	J.M.R.	01-21-11	2860
			DRWG NO
			4



APPROVED AS NOTED

WASHINGTON STATE
 DEPARTMENT OF TRANSPORTATION
 BRIDGE AND STRUCTURES OFFICE
 BY: CONSTRUCTION SUPPORT ENGINEER

DATE JAN 31 2011

GEOMETRY NOT REVIEWED

MAKE 6 ~ 2 1/2" SCH. 80 PIPE x 10'-5 5/16" ~ MK 5A
 ALUMINUM PIPE FOR UPPER RINGS, REF. NO 3

WORK THIS DWG. WITH DWG. 6
 FIELD BOLT LIST SEE DWG. 9

APPROVED 1-28-2011

NO.	DESCRIPTION	DATE	BY
REVISION			
	W.A.B.D.		
RAINIER WELDING 19020 NE 84TH STREET - REDMOND, WA 98083 (425) 868-1300 FAX (425) 868-8872 STEEL AND ALUMINUM FABRICATING			
ITEM <u>UPPER RINGS</u> JOB <u>COLUMBIA RIVER BRIDGE</u> <u>TEMPORARY PILE TEST</u> LOCATION <u>I-5, WA.</u>			
CONTR.	AMERICAN CONST.		
DRAWN BY	PF	DATE	01-24-11
CHKD BY	J.M.R.	JOB NO	2860
		ISSUE NO	5
		REV.	

BILL OF MATERIAL

NO.	QTY	DIM.	SECTION	LENGTH		REMARKS	UNIT	WEIGHT	P.O. NO.
				FT	IN				
6	5A		2" SCH. 80 PIPE	10	5 1/16	ROLL			
	a1	12	1/2" x 2 1/16	0	2 3/16				
	b1	10	1/2" x 2 1/16	0	4 1/16				
	a1	24	1/2" x 3 1/16	0	7	DET. 4			
	b1	6	1/2" x 3 1/16	0	7	DET. 4			
	a5	12	1/2" x 4 1/16	0	5 1/16	DET. 2			
	b5	12	1/2" x 3 1/16	0	5 1/16	DET. 1			
	c5	12	1/2" x 3 1/16	0	9	DET. 3			

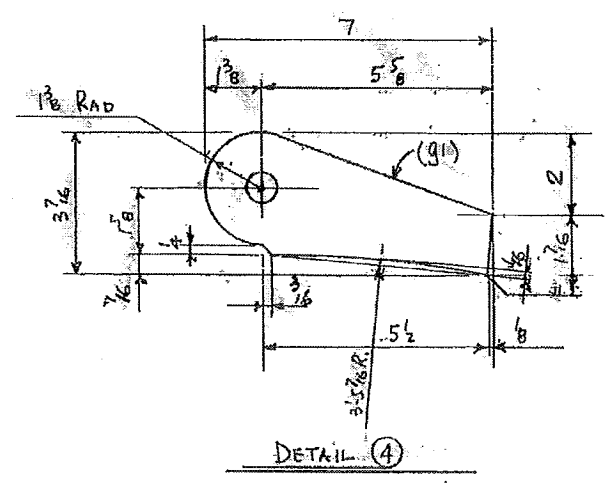
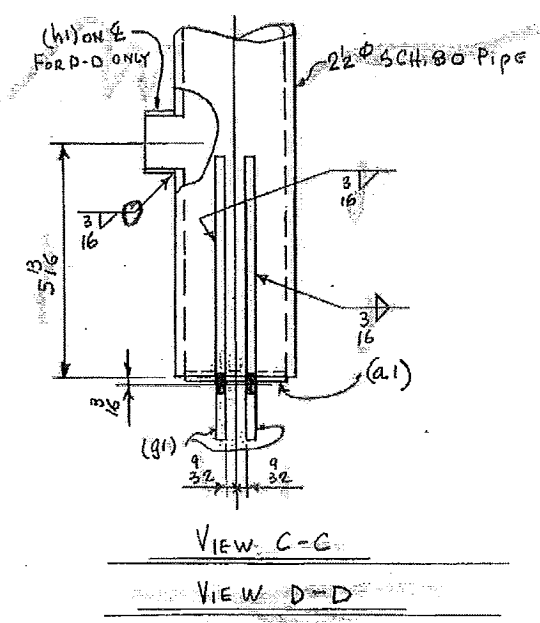
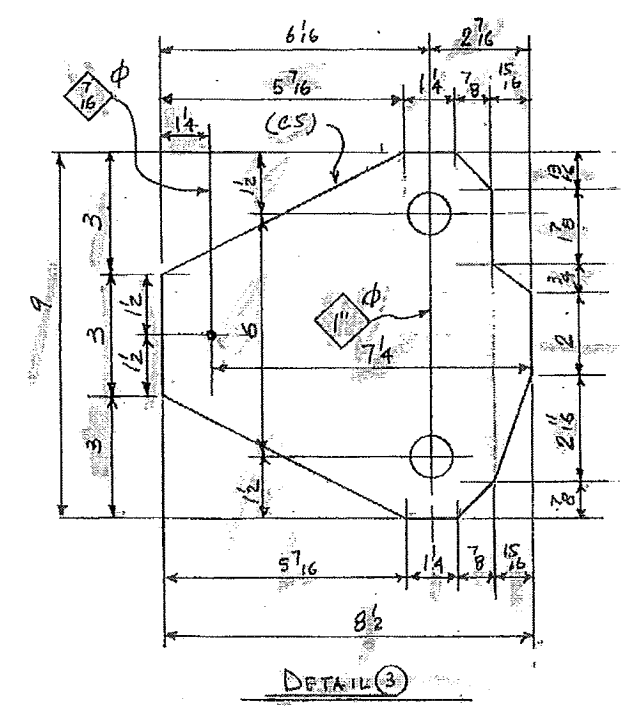
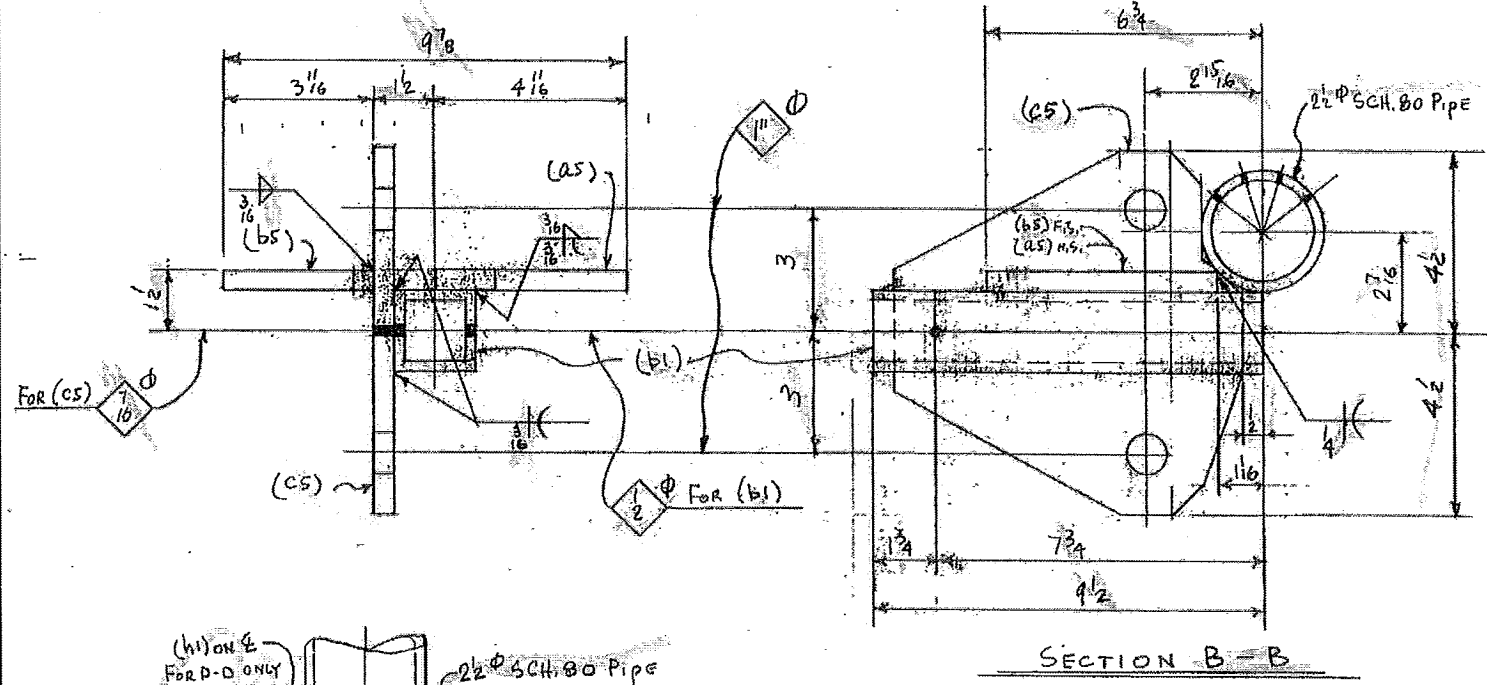
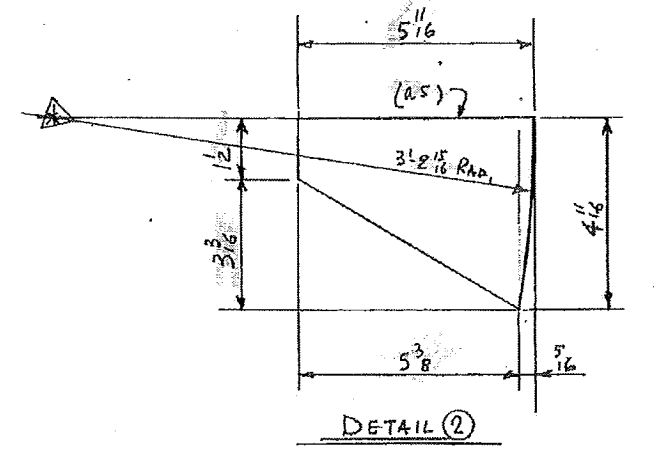
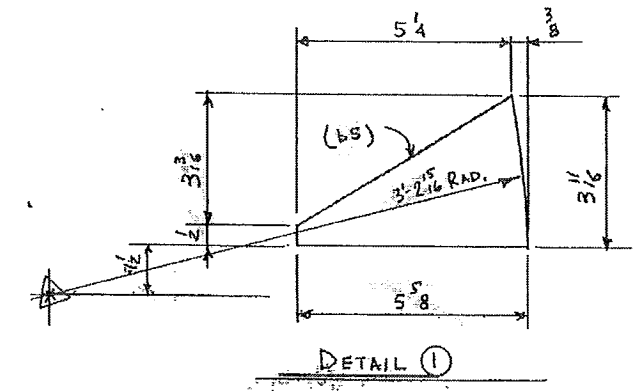
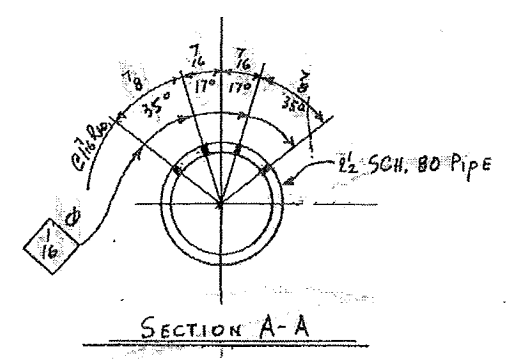
MATERIAL: AL 6061-T6
MILL CERTS. REQ'D

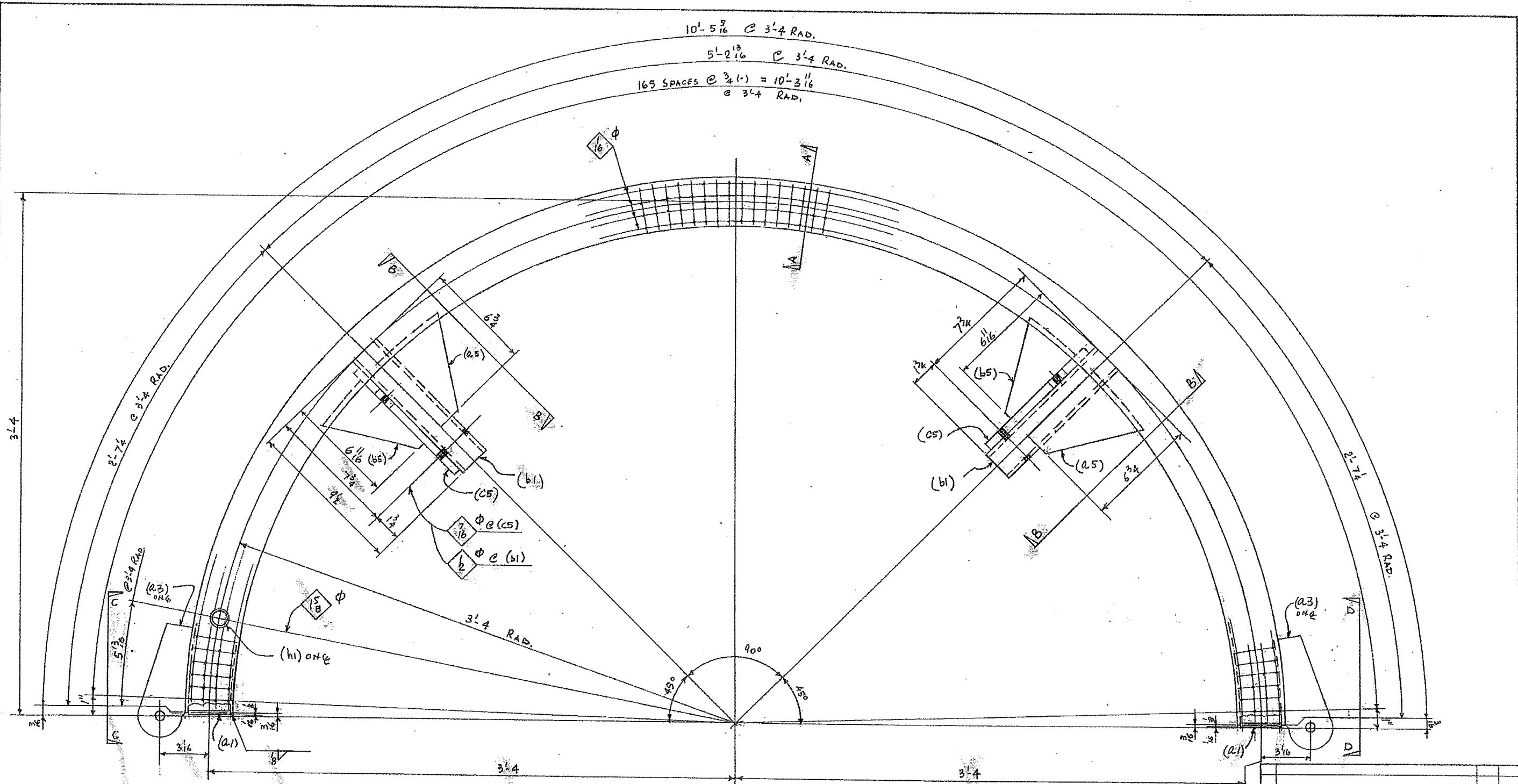
WORK THIS DWG. WITH DWG. 5

NO.	DESCRIPTION	DATE	BY
	REVISION		
CERT. APPROVED: W.A.B.O.			
DATE KEY APPL. ENCL. FILED			
OPEN HOLE: 1/8" U.N. DIA & EDGE DISTANCE U.N.			
PAINT: No PAINT			
RAINIER WELDING 19020 NE 84TH STREET - REDMOND, WA 98083 (425) 868-1300 FAX (425) 868-8872 STEEL AND ALUMINUM FABRICATING			
ITEM: Upper Rings ~ SECTION, DETAILS COLUMBIA RIVER BRIDGE TEMPORARY PILE TEST			
LOCATION: I-5, WA.			
CONTRACTOR: AMERICAN CONST.			
DATE: PF	DRAWN BY: J.M.R.	DATE: 01-24-11	SCALE: 20x0

APPROVED AS NOTED
 WASHINGTON STATE
 DEPARTMENT OF TRANSPORTATION
 BRIDGE AND STRUCTURES OFFICE
 BY: CONSTRUCTION SUPPORT ENGINEER
 DATE: JAN 31 2011
 GEOMETRY NOT REVIEWED

APPROVED SRS 1-2011





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 DEPARTMENT OF TRANSPORTATION
 BRIDGE AND STRUCTURES OFFICE
 BY: CONSTRUCTION SUPPORT ENGINEER
 DATE JAN 31 2011

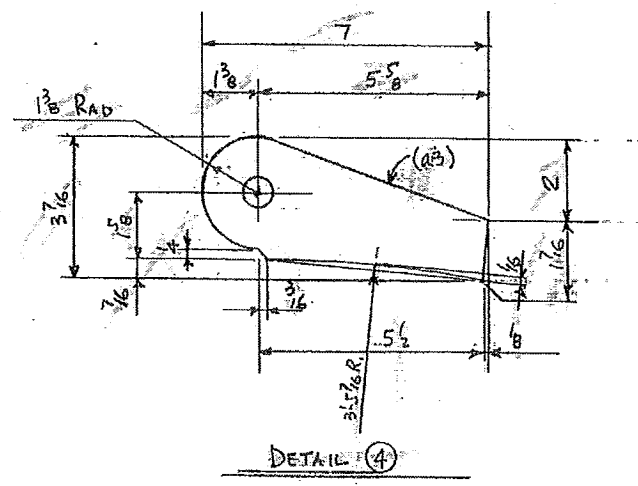
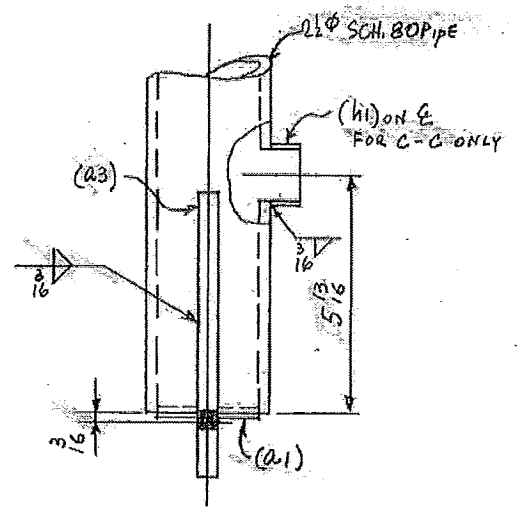
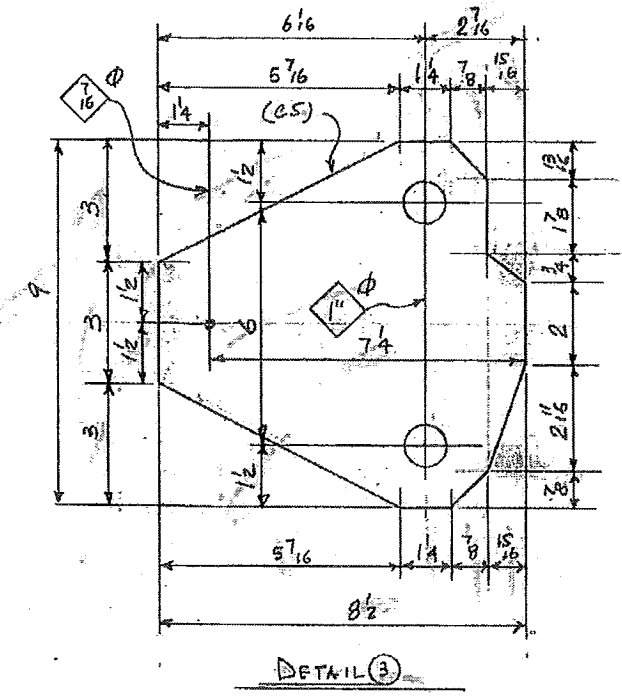
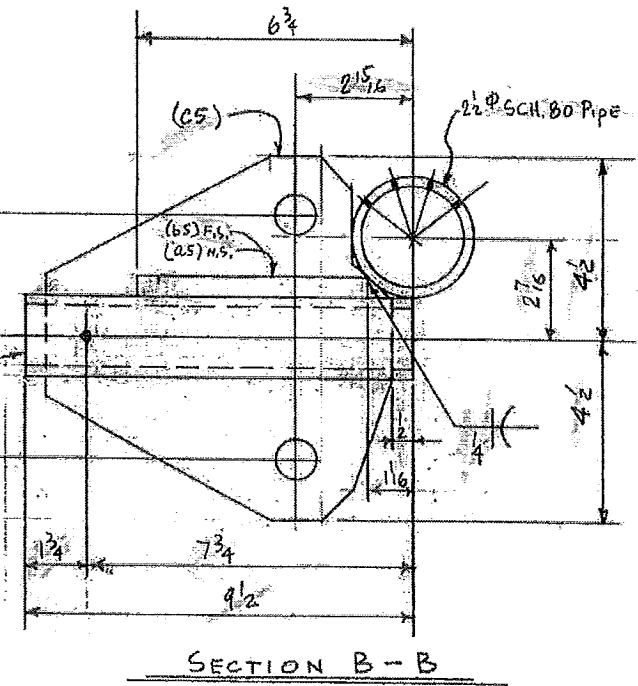
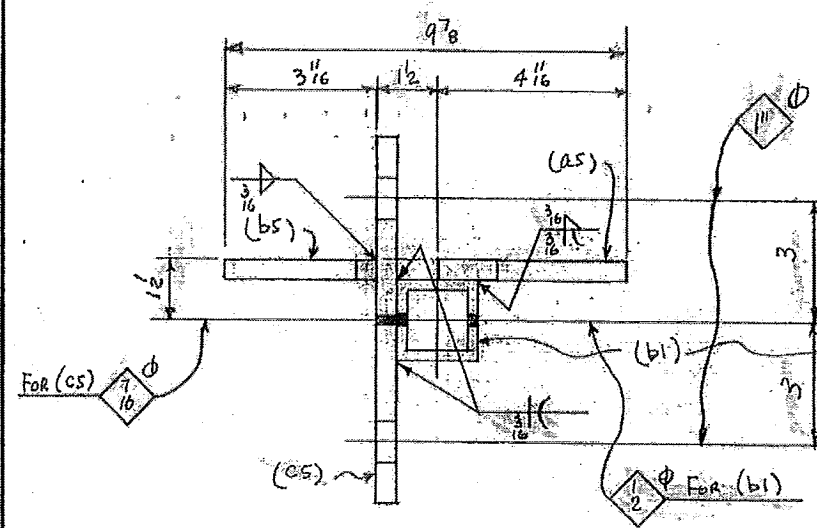
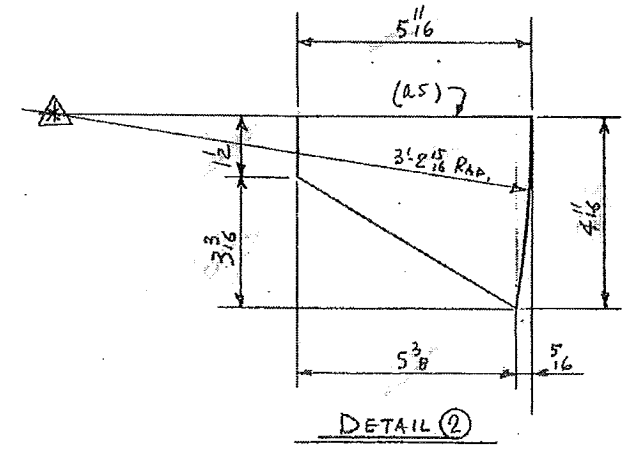
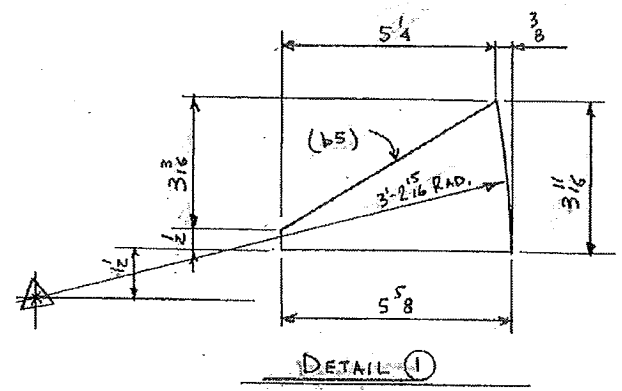
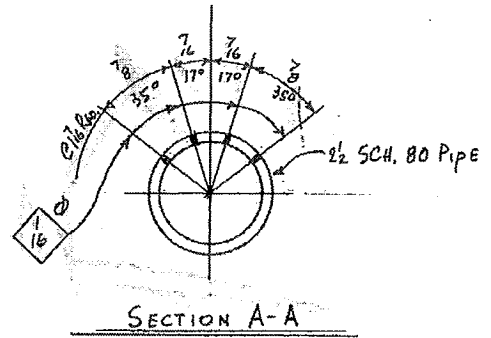
GEOMETRY NOT REVIEWED

MAKE 6 ~ 2 1/2" SCH. 80 PIPE x 10'-5 1/16" ~ M.K.T.A.
 ALUMINUM PIPE FOR UPPER RINGS, REF. NO 3

WORK THIS DWG. WITH DWG. 8
 FIELD BOLT LIST SEE DWG. 9

APPROVED JRS 1-28-2011

NO.	DESCRIPTION	DATE	BY
REVISION			
DESIGNED BY	W.A.B.O.	DATE	REV
APPROVED BY		DATE	REV
FIELD		DATE	REV
DRYER HOLE	13/16 UN	END EDGE DISTANCE	UN
PAINT	NO PAINT		
RAINIER WELDING			
19020 NE 84TH STREET - REDMOND, WA 98033			
(425) 868-1300 FAX (425) 868-8072			
STEEL AND ALUMINUM FABRICATING			
ITEM	UPPER RINGS		
JOB	COLUMBIA RIVER BRIDGE		
	TEMPORARY PILE TEST		
LOCATION	I-5, WA.		
CONTRACTOR	AMERICAN CONST.		
DRAWN BY	PF	CHECKED BY	J.M.R.
DATE	01-24-11	JOB NO	2860
SCALE		FIELD NO	7



BILL OF MATERIAL										
NO. TO SUP.	STEP MARK	ASST MARK	NO. PCS.	SECTION	LENGTH		REMARKS	UNIT	WEIGHT	P.L. NO.
					FT.	IN.				
6	5A			2 1/2 SCH. 80 PIPE	10	5 1/8	Roll			
	a1	12		1/2 x 2 1/8	0	2 1/4				
	b1	12		1/2 x 2 x 1/4	0	4 1/2				
	a2	12		1/2 x 3 7/8	0	7	DET. 4			
	b1	6		1/4 x 2 1/8						
	a5	12		1/2 x 4 1/4	0	5 1/8	DET. 2			
	b5	12		1/2 x 3 1/8	0	5 1/8	DET. 1			
	c5	12		1/2 x 8 1/2	0	9	DET. 3			

MATERIAL: AL 6061-T6
MILL CERTS. REQ'D

WORK THIS DWG. WITH DWG. 7

APPROVED AS NOTED
WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION
BRIDGE AND STRUCTURES OFFICE
BY: CONSTRUCTION SUPPORT ENGINEER
JAN 31 2011
DATE _____

GEOMETRY NOT REVIEWED

APPROVED 1-28-2011 JRS

NO.	DESCRIPTION	DATE	BY
	REVISION		
DESIGNER	W. A. B. O.	DATE	REV.
APPROVER	U.N.	DATE	REV.
PAINT	No PAINT		
RAINIER WELDING 19020 NE 84TH STREET - REDMOND, WA 98053 (425) 868-1300 FAX (425) 868-8872 STEEL AND ALUMINUM FABRICATING			
Upper RINGS - SECTION, DETAILS COLUMBIA RIVER BRIDGE TEMPORARY PILE TEST			
LOCATION I-5, WA.			
COUNTY AMERICAN CONST.			
DESIGNED BY	DATE	SCALE	REV
J.M.R.	01-24-11	2000	8

