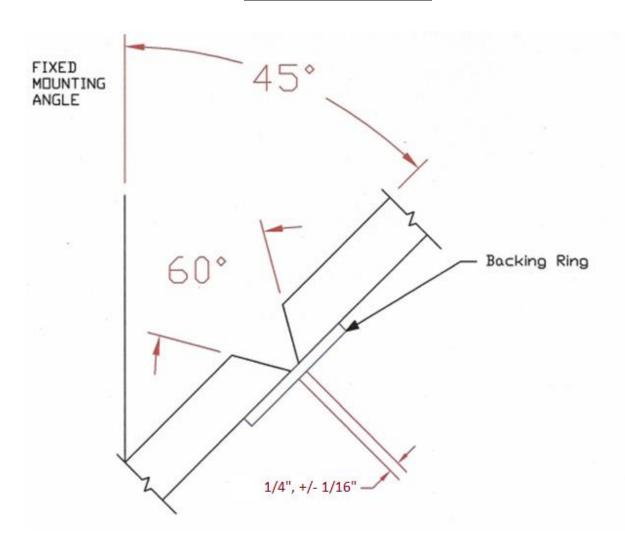
## NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 6G PIPE CERTIFICATION TEST (BRIDGE WELDER) WELDING PROCEDURE SPECIFICATION (WPS) AWS D1.1

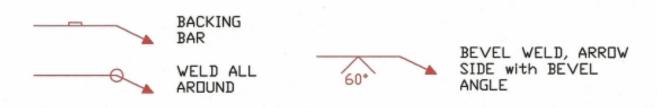
Specifications & Codes:		:	NCDOT Standard Specifications & AWS D1.1					
Material Specifications:					ASTM A-50	00, 7/16" THICK		
Welding Process: SMAN			AW	Manual or S 		omatic or	Manual	
Filler Metal Specification:			WS A5.1	VS A5.1 Classifica		E-7018 Position of	-	
Manufacturer: Made in the US						Weld	ALL	
Welding Current:		DC	Polarity:	Posi	tive	Progression:	Vertical - up	
Root Trea	tment:			N/A				
Preheat Temp: 50° m		)° minimum	Interpass	SS: 450° maximum		Post Heat:	N/A	
Pass Num.	Electrode Size	Welding Amperes	Current Volts	Travel Speed		Joint Details		
All All	3/32" 1/8"	70 - 110 90 - 140	Ampere Controlled	4–11 ipm 4–11 ipm		SEE ATTACHMENT		
PREHEAT Thickness Min. Temp. Up to 3/4" 50°			The Rem	COMMENTS: The backing bar must be in close contact with the test material.  Remove all rust and mill scale within one inch of the area to be welded prior to fit-up. Remove all slag and spatter between passes. Clean the completed weld of all debris, slag, and spatter.				
Fill the groove to the full cross section of the member.								
		6G Pipe ification Test	Written By:		Michae	Michael Pulley, CWI, Metals Products Specialist		
			Signa	iture:	Mic	chael Pulley	Date: <b>11/04/2021</b>	
WPS #:		40209010	Autho	orized By:	Randy	Porter, CWI, Metal	ls Engineer	
Revision #	#: <u> </u>	4	Signa	iture:				
Revision I	Date: <b>1</b>	1/04/2021	4/2021		_Sta	phen R Port	ter Date: 11/04/2021	

## WPS 6G PIPE CERTIFICATION TEST 040209010 R4 JOINT DETAIL ATTACHMENT



## 6G Pipe Groove Weld Joint Details

Weld Symbol definitions per AWS A2.4:2007



## Illustrations for Pipe Weld Tests





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