

San Antonio Water System Standard Specifications for Construction

ITEM NO. 820

CONCRETE STEEL CYLINDER PIPE INSTALLATION

- 820.1** **DESCRIPTION:** This item shall consist of concrete steel cylinder pipe installation in accordance with these specifications and as directed by the Engineer.
- 820.2** **MATERIALS:** The materials for concrete steel cylinder pipe installation shall conform to the specifications contained within the latest revision of SAWS Material Specification "Prestressed Concrete Pressure Pipe Steel Cylinder Type", Item 05-20.
- 820.3** **CONSTRUCTION METHOD:** Concrete steel cylinder pipe shall be installed as specified within "Water Main Installation", Item No. 812 of these specifications. Bell holes for concrete steel cylinder pipe shall be of sufficient size to properly join the pipe and place the required grout. Subject to the above provisions, the length of excavation for bell holes below grade of the trench bottom shall be kept to a minimum.
- 820.4** **MEASUREMENT:** Concrete steel cylinder water main installed will be measured as outlined in "Water Main Installation", Item No. 812 of these specifications.
- 820.5** **PAYMENT:** Payment for concrete steel cylinder water main installed will be made as outlined in "Water Main Installation", Item No. 812 of these specifications.

Extra Brush coat

3' 2'

2' 3'

C.S.C. PIPE WITH EXTRA BRUSH COAT

5/16" O smooth steel rod or
as required for suitable weld

Primary field welds

1/4" - 2 Pass fillet weld
(See enlarged detail at left)

Screed coating on spigot end to
allow access for field welding

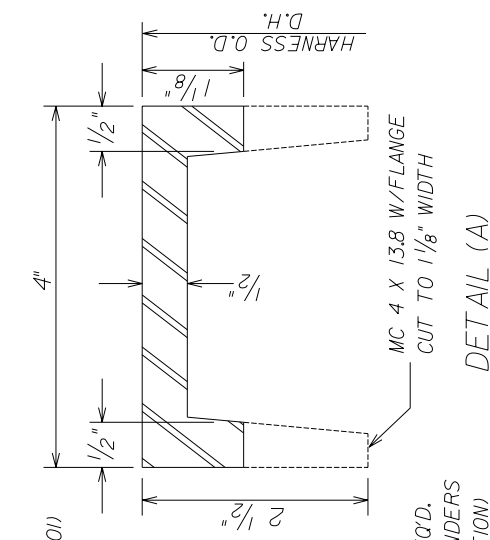
Outside mortar applied after
completion of field weld

3/4"

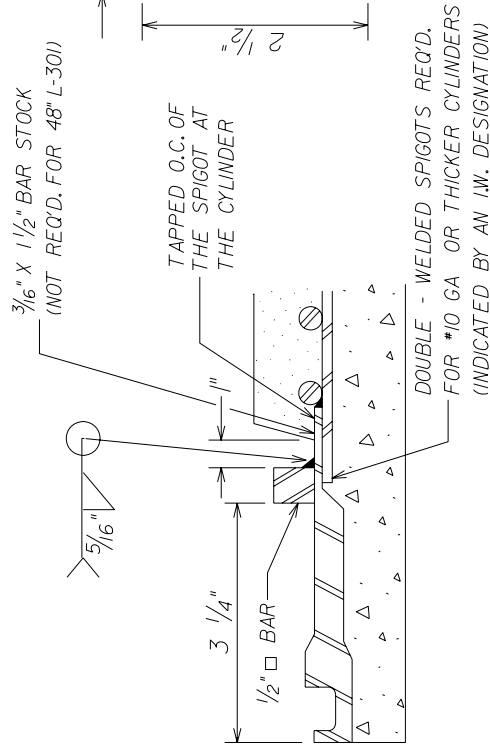
In normal manner ^{aced}

continuous and need not be watertight. (No Skip Weld)

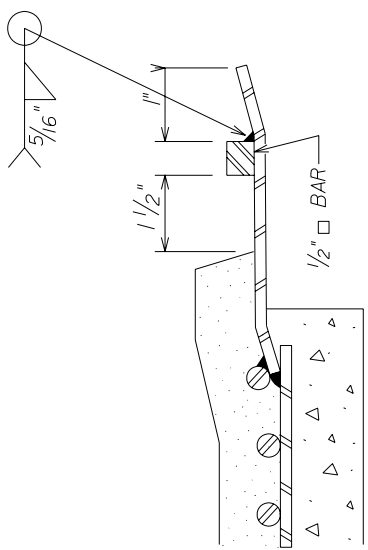
FIELD WELDED JOINT DETAIL



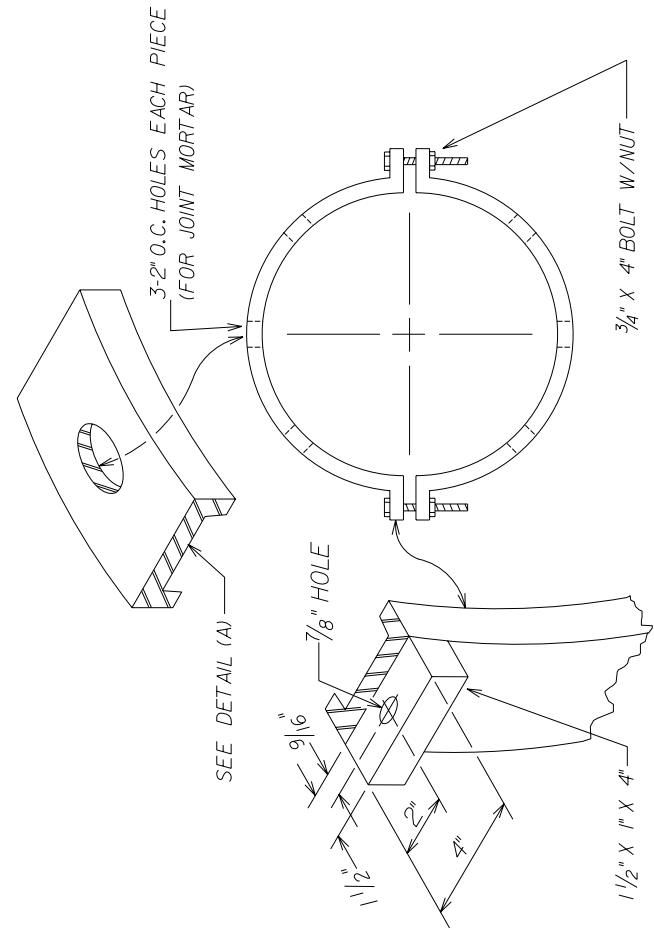
DETAIL (A)



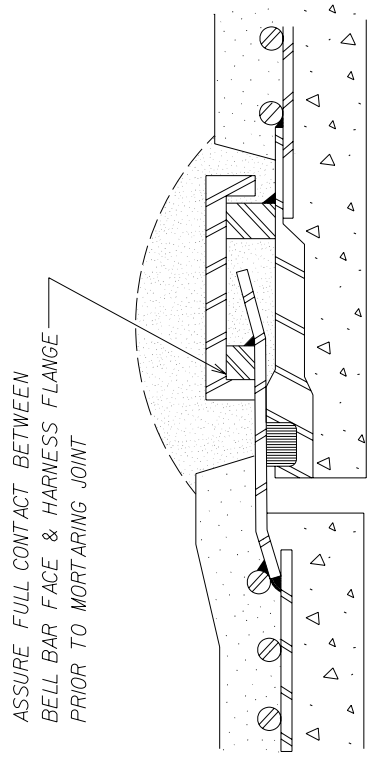
TYPICAL SPIGOT DETAIL FOR JOINT HARNESS



TYPICAL BELL DETAIL FOR JOINT HARNESS



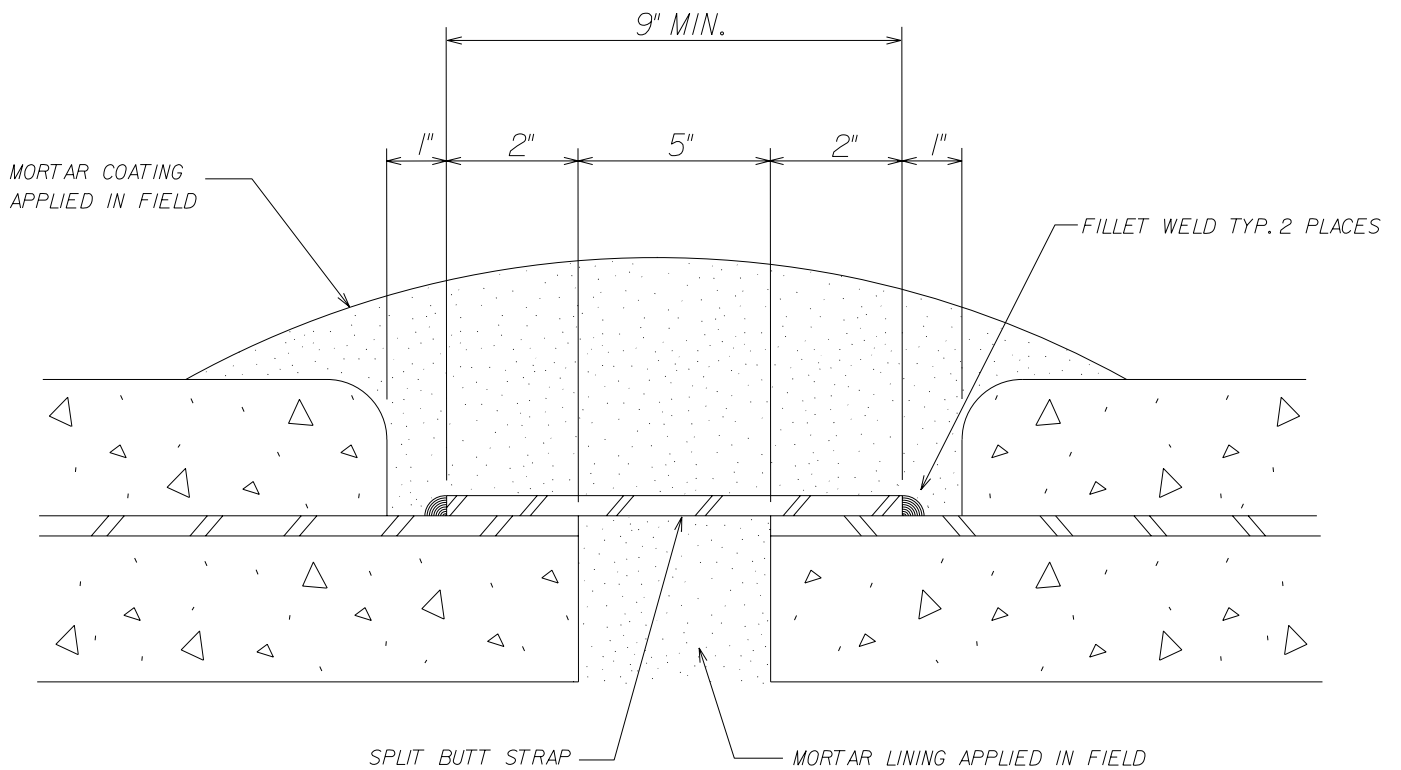
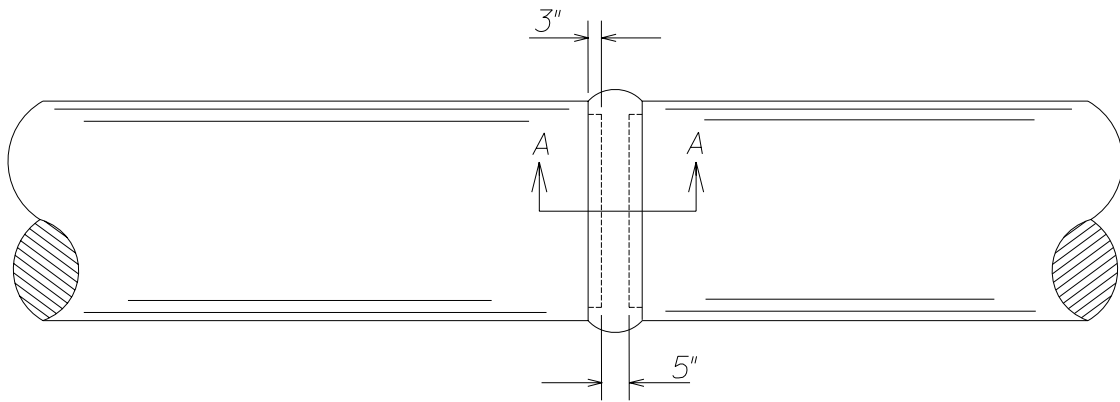
JOINT HARNESS DETAIL



ASSEMBLED JOINT DETAIL WITH JOINT HARNESS

NOTE:
 1. HARNESS JOINT ASSEMBLY HAS BEEN DESIGNED TO PROVIDE 3/4" JOINT FLEXIBILITY DURING INSTALLATION
 2. 12" WIDE JOINT WRAPPER REQUIRED FOR EACH HARNESSSED JOINT

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	JOINT HARNESS ASSEMBLY	APPROVED	REVISED
		MARCH 2008	
		DD-820-01	
		SHEET 2 OF 3	



DETAIL (A)

NOTE:

CEMENT MORTAR MAY BE APPLIED TO INTERIOR AND EXTERIOR OF JOINT FOR C.S.C. PIPE OR TO INTERIOR OF JOINT ONLY FOR STEEL PIPE.

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 SAN ANTONIO, TEXAS

SPLIT BUTT STRAP

APPROVED
 MARCH 2008

REVISED

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SHEET
 3 OF 3