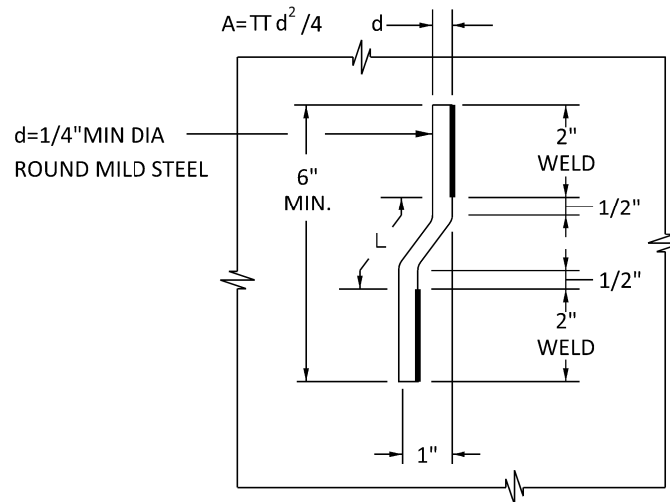
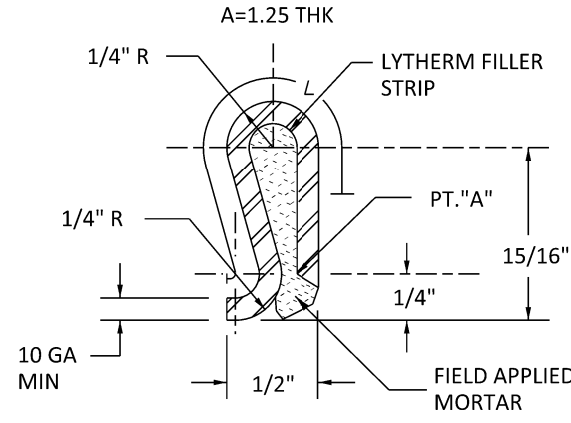


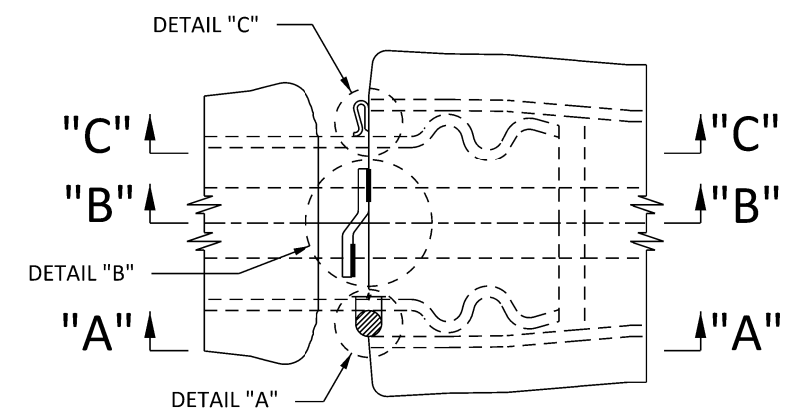
PREROLLED ROD PER MFG'R'S REQMTS  
DETAIL "A"



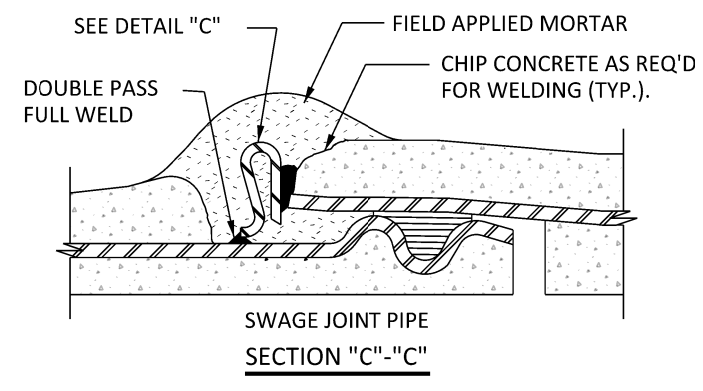
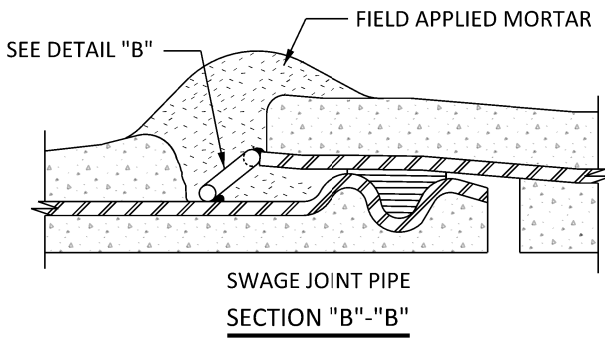
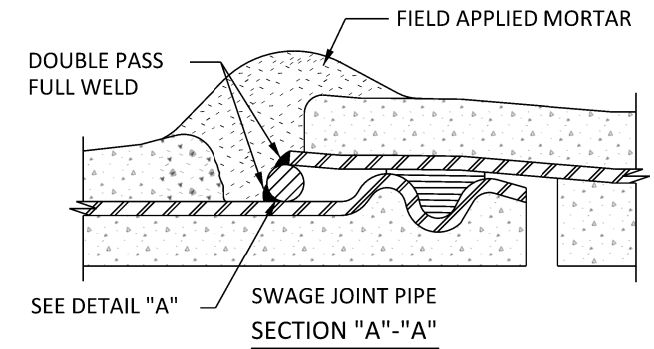
BONDING JUMPER  
DETAIL "B"



BONDING CLIP  
DETAIL "C"

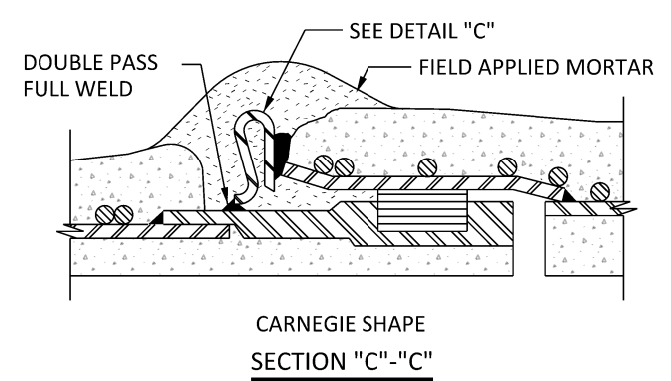
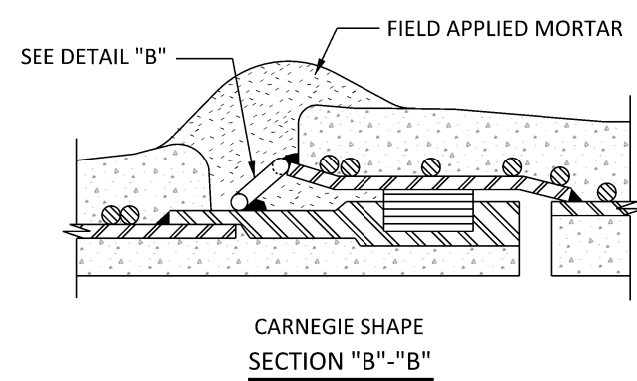
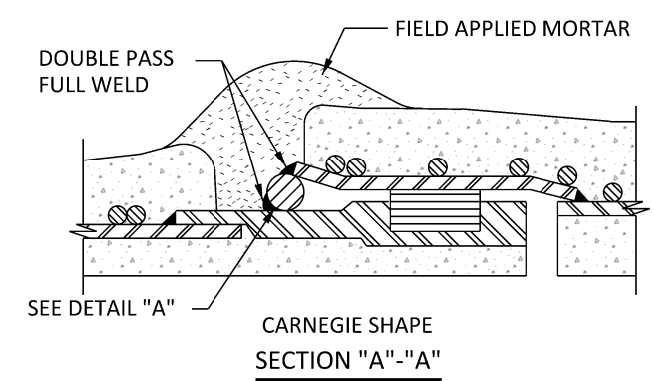


STEEL CYLINDER PLAN



BONDING JUMPER JOINT

BONDING CLIP JOINT



WELDED JOINT DETAILS

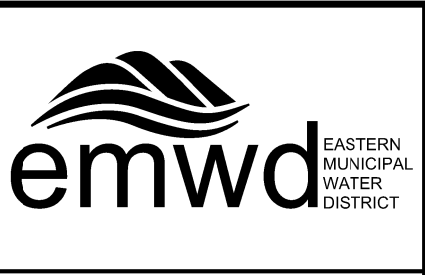
BONDED RUBBER GASKET JOINT DETAILS

**NOTES**

- PIPE SHALL BE CLEANED TO BARE METAL PRIOR TO WELDING BONDING JUMPER OR CLIP.
- PIPE SHALL BE ASSEMBLED IN TRENCH PRIOR TO WELDING BONDING JUMPER OR CLIP.
- BONDING JUMPER OR CLIP SHALL BE PROTECTED DURING FIELD MORTARING OF PIPE JOINT.
- 30" AND LARGER PIPE SHALL HAVE (2) TWO BONDING JUMPERS OR (2) TWO CLIPS MINIMUM.
- STEEL BONDING CLIP MATERIAL SPECIFICATION:  
ASTM A366 (COMMERCIAL QUALITY)  
CUT LENGTH: 2-1/2" ± 1/16"  
WIDTH: 1-1/4" ± 1/16"  
LYTHERM FILLER STRIP TO BE 1"x1-1/2" WIDE TO OVERLAP SIDES OF CLIP.  
CRIMP BONDING CLIP OVER FILLER AT POINT "A" IN DETAIL "C" TO COMPRESS FILLER.
- RUBBER GASKETS AND JOINT BONDS NOT REQUIRED FOR WELDED JOINTS.
- N=MINIMUM NUMBER OF JOINT BONDS PER PIPE JOINT.  
L=LENGTH OF BOND JUMPER OR CLIP (IN.).  
A=AREA OF BOND JUMPER OR CLIP (SQ. IN.).  
W=WEIGHT OF STEEL CYLINDER PER FOOT OF PIPE (LB/FT).  
 $N > 5.12 \times 10^{-4} (LW/A)$

REVISIONS				APPROVALS		
NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE	DATE
3	5/3/19	GS	UPDATED TITLE BLOCK, FONT, DRAWING DETAILS "A" & "B"	AGA	5/3/19	
2	3/23/01	GR	REVISED FILE ID NO			
1	1/15/99	GR	REDRAWN W/CADD ON MYLAR	VJB	5/3/99	

DESIGN	JUS	1/3/86
CONSTRUCTION	JEW	
INSPECTION		
OPERATIONS	DWH	
SUBMITTED	LAM	4/9/86



EASTERN MUNICIPAL WATER DISTRICT  
STANDARD DRAWING

STEEL CYLINDER PIPE FIELD JOINT DETAILS  
WELDED, BONDED & RUBBER GASKETS

REFERENCES: SUPERCEDES B-576  
FILE I.D.: \kauai\eng\std dwgs\B-638.dgn

SCALE: NONE  
DRAWN BY: GS  
RECOMMENDED \_\_\_\_\_  
DIRECTOR OF ENGINEERING DATE

APPROVED James H. Bunts, Jr. 4/22/86  
ASSISTANT GENERAL MANAGER DATE

B-638

