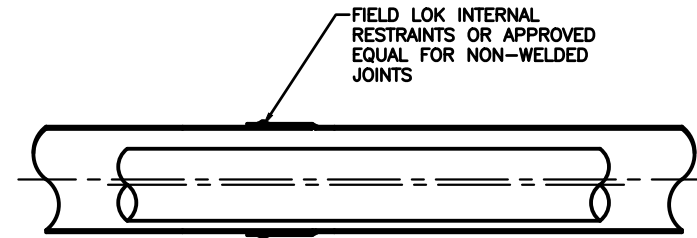
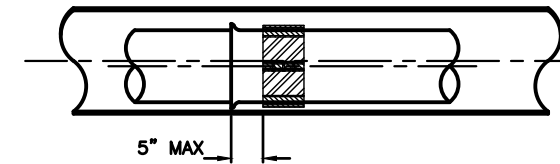


**NOTES:**

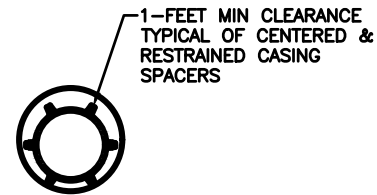
- CARRIER PIPE SHALL BE USED AS REQUIRED WITHIN CITY RIGHT-OF-WAY.
- ALL IRRIGATION PIPE LOCATED WITHIN CITY RIGHT-OF-WAY SHALL BE PVC C900 OR AS APPROVED BY CITY.
- ALL JOINTS THROUGHOUT CASING SHALL BE RESTRAINED WITH FIELD LOC INTERNAL RESTRAINTS OR APPROVED EQUAL.
- RESTRAIN CARRIER PIPE ONE JOINT BEYOND END SEALS.
- MANUFACTURED CASING SPACER INTERVAL PER MANUFACTURER'S SPECIFICATIONS BUT NOT MORE THAN 10- FEET. MINIMUM 3 SPACERS PER PIPE LENGTH.
- CASING SHALL BE WELDED STEEL OR DUCTILE IRON FOR INSTALLATIONS LESS THAN 3- FEET BELOW ROAD GRADE. CPE MAY BE SUBSTITUTED FOR AREAS OUTSIDE OF PAVED ROADWAY.
- CASING PIPE LENGTHS SHALL BE OF THE LONGEST AVAILABLE LENGTH OF PIPE FROM MANUFACTURER
- NON- WELDED STEEL CASING SHALL BE EXTERNALLY RESTRAINED AT ALL JOINTS UNLESS FIELD LOK GASKET IS USED.
- 3M MARKER BALL TO BE PLACED DIRECTLY ABOVE JOINT RESTRAINT AT END OF PIPE.
- DETECTABLE MARKER TAPE TO BE INSTALLED 12- INCH TO 14- INCH ABOVE PIPE CASING. COLOR SHOULD BE ACCORDING TO APWA UNIFORM COLOR CODE FOR MARKING UNDERGROUND UTILITIES. DETECTABLE MARKING TAPE SHALL CONSIST OF INERT POLYETHYLENE PLASTIC THAT IS IMPERVIOUS TO ALL KNOWN ALKALIS, ACIDS, CHEMICAL REAGENTS, AND SOLVENTS LIKELY TO BE ENCOUNTERED IN THE SOIL, WITH A METALLIC FOIL CORE TO PROVIDE FOR THE MOST POSITIVE DETECTION AND PIPELINE LOCATION. DETECTABLE MARKING TAPE SHALL BE NO LESS THAN 2- INCH WIDE, TYPE OF BURIED UTILITY SHOULD BE CLEARLY MARKED CONTINUOUSLY ALONG THE LENGTH OF THE RIBBON WITH MINIMUM 1-1/2 INCH LETTERS IN THE FOLLOWING FORMAT: "CAUTION BURIED (UTILITY TYPE) LINE"



**NON WELDED JOINT DETAIL**  
N.T.S.



**SPACER DISTANCE FROM BELL DETAIL**  
N.T.S.



**CASING SPACERS DETAIL**  
N.T.S.

**STANDARD DETAIL**  
**CARRIER PIPE**



SCALE: AS SHOWN	DESIGNED BY JB	APPROVED BY	DATE APPROVED	REVISIONS					
				DATE	INITIAL	BY	CAW	AJS	JTB
2/21/2006	SK			12/20/2017	LBV				
				10/27/2020	CAW				
				01/01/2022	AJS				
				03/23/2023	JTB				

DETAIL NO.  
**D-400**

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