


JACK AND BORE DETAIL

STANDARD NUMBER OF RUNNERS REQUIRED

UP TO 14" CARRIER PIPE	- 4 REQUIRED
OVER 14" THROUGH 36" CARRIER PIPE	- 6 REQUIRED
OVER 36" THROUGH 48" CARRIER PIPE	- 7 REQUIRED

NOTE:

- THIS CASING INSTALLATION DETAIL IS APPLICABLE FOR 4-INCH DIAMETER AND LARGER CARRIER PIPE WHERE JACKING AND BORING IS REQUIRED FOR PIPE INSTALLATION.
- SPACERS SHALL BE BOLT-ON STYLE WITH A TWO PIECE SOLID SHELL MADE FROM T-304 STAINLESS STEEL OF A MINIMUM 14 GAUGE THICKNESS. THE SHELL SHALL BE LINED WITH A RIBBED PVC SHEET OF A 0.090" THICKNESS THAT OVERLAPS THE EDGES. RUNNERS SHALL BE MADE FROM UHMW POLYMER TO INSULATE SPACERS FROM CASING. RISERS SHALL BE MADE FROM T-304 STAINLESS STEEL OF A MINIMUM 14 GAUGE THICKNESS AND SHALL BE ATTACHED TO THE SHELL BY MIG WELDING. ALL WELDS SHALL BE FULLY PASSIVATED. ALL FASTENERS SHALL BE MADE FROM T-304 STAINLESS STEEL.
- GENERALLY ONE SPACER SHALL BE PLACED NOT MORE THAN TWO FEET FROM EACH END OF CASING. SUBSEQUENT SPACERS SHALL BE PLACED AT 6' TO 10' INTERVALS WITHIN THE CASING, OR IN ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDATIONS.
- FOR PVC CARRIER PIPE, ONE SPACER SHALL BE PLACED ON THE SPIGOT END OF EACH SEGMENT AT THE LINE MARKING THE LIMIT OF INSERTION INTO THE BELL. WHEN THE JOINT IS COMPLETE, THE SPACER SHALL BE IN CONTACT WITH THE BELL OF THE JOINT SO THAT THE SPACER PUSHES THE JOINT AND RELIEVES COMPRESSION WITHIN THE JOINT. SUBSEQUENT SPACERS SHALL BE PLACED AT 6' TO 10' INTERVALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL CARRIER PIPE SHALL BE CENTERED WITHIN CASING BY USE OF STAINLESS STEEL CASING SPACERS. PVC CARRIER LESS THAN 12" DIAMETER ARE PERMITTED TO BE PLACED IN CASING PIPE BY USE OF HDPE CASING SPACERS.

	REVISIONS	AMERICAN WATER MILITARY SERVICES GROUP CIVIL CASING INSTALLATION DETAIL	
		AMERICAN WATER MILITARY SERVICES GROUP CAMDEN, NJ 08102	
		AMERICAN WATER M.S.G. 1 WATER STREET CAMDEN, NJ 08102	 AMERICAN WATER.
		DRAWN BY PDK PROJECT ENG'R PDK APPROVED	DATE 06-30-2013 PROJECT N/A USE DIMENSIONS ONLY SCALE N.T.S.
		USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES	MSG-ST-03-HAFB

FINAL

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