



NOTES:

1. STEPS TO BE CAST, UNALTERED, IN MANHOLE WALL IN A STRAIGHT LINE, VERTICALLY. AT SAME TIME THE BARREL OR CONE SECTIONS ARE CAST.
2. IF STEPS ARE NOT CAST INTO THE MANHOLE BARREL SECTIONS AS MENTIONED ABOVE. STEPS SHALL BE INSTALLED BY THE "PRESS FIT" METHOD, UTILIZING A SPECIALLY TAPERED PIN TO FORM THE INSERT HOLE AS SHOWN. FOLLOWING MANUFACTURES RECOMMENDED PROCEDURE AND SHALL NOT BE GROUDED IN PLACE.
3. INSTALLED STEPS SHALL BE CAPABLE OF WITHSTANDING A PULL OUT FORCE OF 2500 LBS. PER LEG FOR A MINIMUM PERIOD OF TWO MINUTES.
4. PINS MUST BE SMOOTH AND CONTINUOUSLY TAPERED. DIMENSIONS OF THE PIN AND THE INSERTED PORTION OF THE MANHOLE STEP ARE TYPICAL ONLY. W.M.D. INSTALLATIONS REQUIRE A MATCHED COMBINATION OF A TAPERED INSERT PIN AND MANHOLE STEP, AS RECOMMENDED OR REQUIRED BY SPECIFIC MANUFACTURER OF THE STEP TO BE USED.
5. THIS STEP CAN ALSO BE USED IN TOE POCKET INSTALLATIONS PROVIDED 5" TOE CLEARANCE IS ALLOWED.

DRAWN BY: JSH

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APPROVED BY:
DIRECTOR OF PUBLIC WORKS

CITY OF BOULDER, COLORADO
POLYPROPYLENE
REINFORCED PLASTIC
MANHOLE STEP

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DRAWING NO.

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