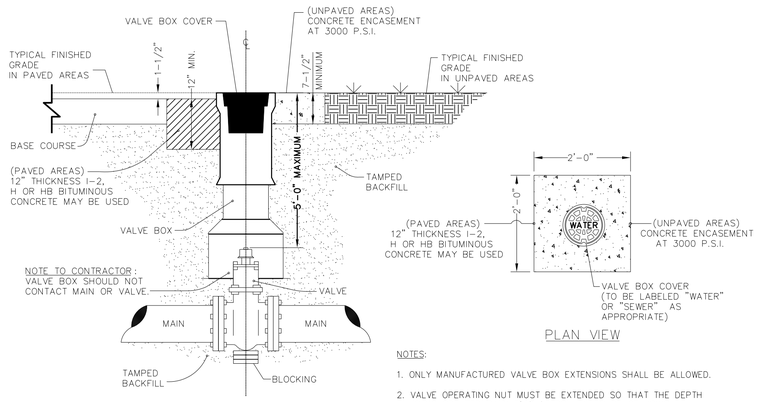
PROJECT REFERENCE NO.	SHEET NO.
17BP.2.R.56	UC-4

UTILITIES ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 11274 ENGINEER BRYCE EDWARD EATMON III
DocuSigned by: Bryce Eatmon
5/17/2018 8:46:24 AM
2/23/2018

UTILITY CONSTRUCTION DETAILS SHEET



SECTION VIEW

PLAN VIEW

NOTES:

1. ONLY MANUFACTURED VALVE BOX EXTENSIONS SHALL BE ALLOWED.
2. VALVE OPERATING NUT MUST BE EXTENDED SO THAT THE DEPTH IS NO GREATER THAN 5' (ft.) FROM THE SURFACE USING A MANUFACTURER APPROVED EXTENSION KIT.
3. PRECAST CONCRETE ENCASEMENT IS ALLOWED OUTSIDE OF PAVED AREAS.

TYPICAL VALVE BOX

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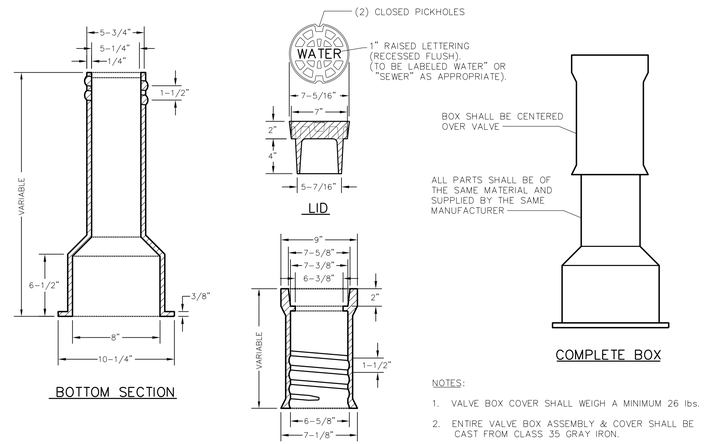

BOTTOM SECTION

LID

TOP SECTION

COMPLETE BOX

NOTES:

1. VALVE BOX COVER SHALL WEIGH A MINIMUM 26 lbs.
2. ENTIRE VALVE BOX ASSEMBLY & COVER SHALL BE CAST FROM CLASS 35 GRAY IRON.
3. ASSEMBLY SHALL BE DOMESTICALLY MADE AND MANUFACTURED IN THE U.S.A.

TYPICAL VALVE BOX

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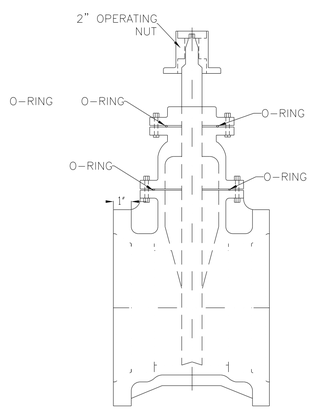

TYPICAL RESILIENT MECHANCIAL JOINT GATE VALVE DETAIL

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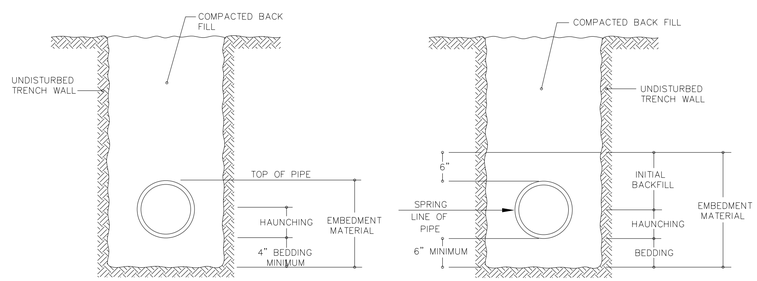

STANDARD BEDDING FOR 3' TO 14' DEPTHS

SPECIAL BEDDING FOR 14'-20' DEPTHS

NOTES:

1. EMBEDMENT MATERIAL MUST BE CLASS I (NO. 67 OR NO. 78M WASHED STONE IS TYPICALLY USED).
2. EMBEDMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY FOR CLASS I MATERIAL.
3. STANDARD BEDDING SHALL BE UTILIZED FOR ALL CASES WHERE TRENCH BOTTOMS ARE UNSTABLE DUE TO SOIL TYPE, OR MOISTURE CONDITIONS.

TYPICAL BEDDING FOR FLEXIBLE & SEMI-RIGID PIPE

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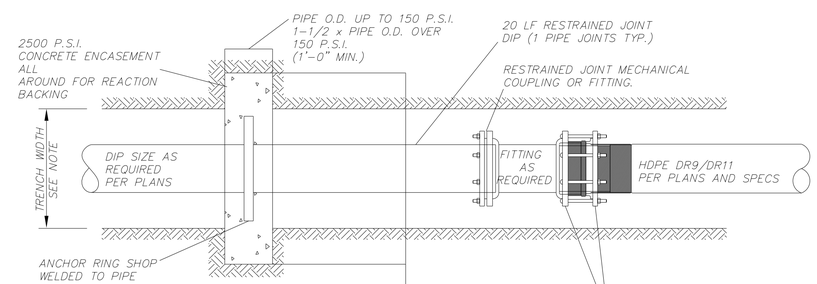

ANCHOR RING DIMENSIONS		
NOMINAL PIPE SIZE	O.D. OF RINGS	THICKNESS
4" – 12"	PIPE O.D. + 6"	1/2"
16" – 24"	PIPE O.D. + 7"	3/4"
30" & 36"	PIPE O.D. + 8"	1"

TYPICAL DIP TO HDPE TRANSITION DETAIL WITH THRUST COLLAR

NTS

8/17/99

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