042597

PROJECT REFERENCE NO.	SHEET NO.
U-2912	UC-8

DESIGNED BY: CSG
DRAWN BY: CSG
CHECKED BY: JAN
APPROVED BY: RBW
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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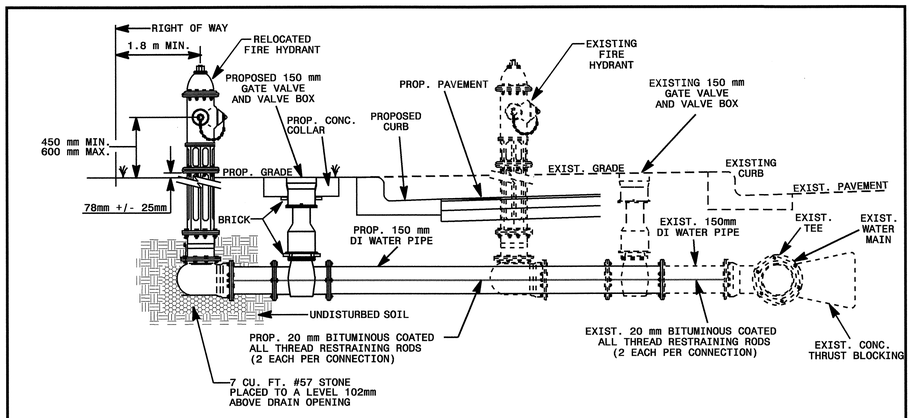
NORTH CAROLINA PROFESSIONAL SEAL 10157 ENGINEER RONALD B. WILKINS
9/8/04
UTILITY CONSTRUCTION PLANS ONLY

METRIC
0
SCALE
NOT TO SCALE

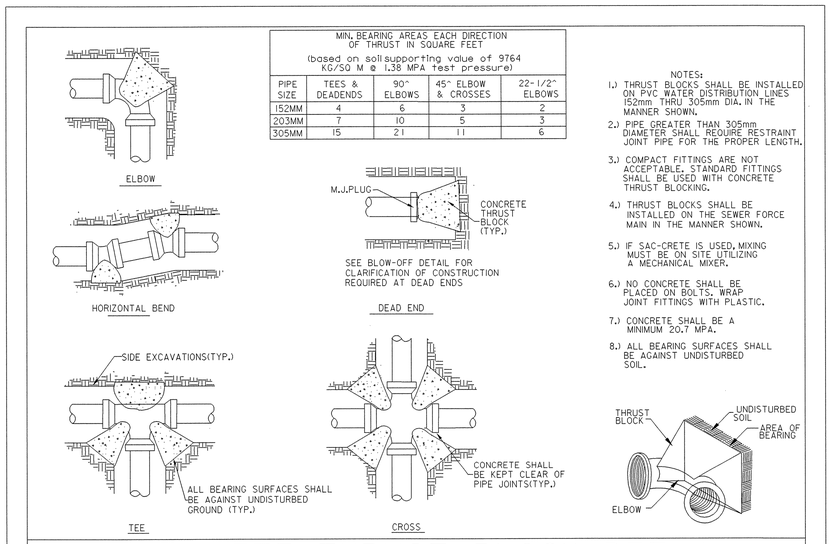
UTILITY CONSTRUCTION

MAXIMUM TRENCH WIDTH AT TOP OF PIPE

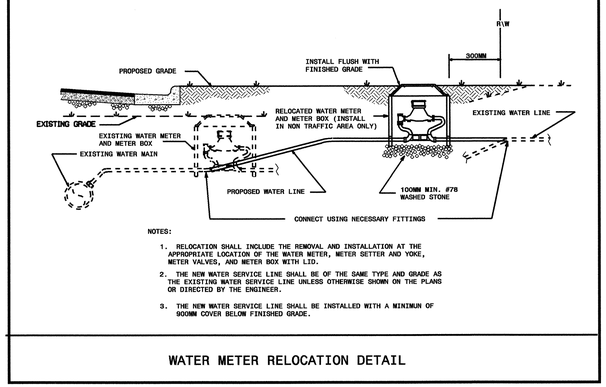
NOMINAL PIPE SIZE (mm)	TRENCH WIDTH (meter)	NOMINAL PIPE SIZE (mm)	TRENCH WIDTH (mm)
100	0.72	500	1.12
150	0.76	600	1.22
200	0.81	750	1.37
250	0.86	900	1.57
300	0.91	1050	1.68
350	0.97	1200	1.83
400	1.02	1400	1.98
450	1.07		



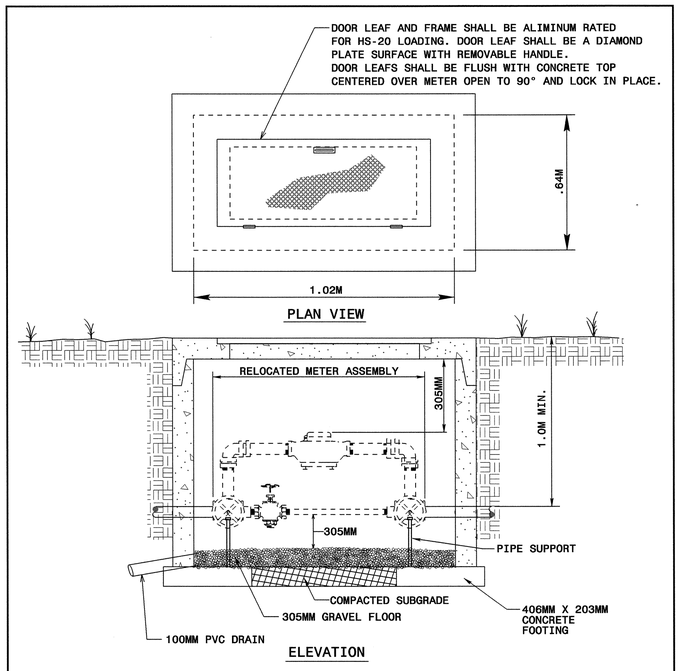
FIRE HYDRANT RELOCATION DETAIL



CONCRETE THRUST BLOCK DETAIL



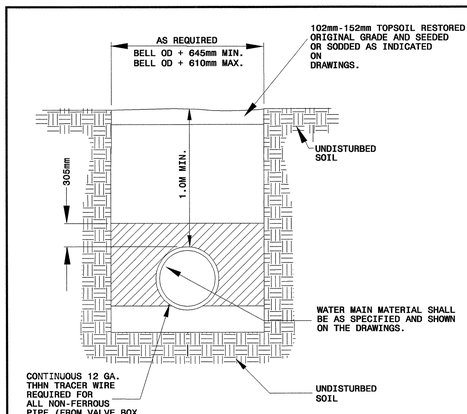
WATER METER RELOCATION DETAIL



1- 100MM DRAIN TO EXISTING DITCH, OR STORM DRAIN- APPROVED BY THE ENGINEER
2- ADJUST WITH CONC. BLOCK TO FINISHED GRADE IF NEEDED, BLOCK SHALL PROVIDE SOLID CONTINUOUS BASE.

RELOCATED WATER METER ASSEMBLY VAULT DETAIL

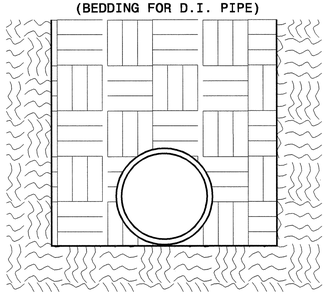
*NOT TO SCALE



PIPE BEDDED IN LOOSE MATERIAL, LIGHTLY TAMPED WITH A MINIMUM OF 150 mm UNDER PIPE. TRENCH BACKFILLED IN LOOSE 150 mm LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL, IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

TYPE 3 TRENCH

TYPE "2"
(BEDDING FOR D.I. PIPE)



PIPE BEDDED IN FLAT-BOTTOM TRENCH. TRENCH BACKFILLED IN LOOSE 150 mm LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL, IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

08-SEP-2004 10:38
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