CORPORATION STOP-

AREAS WITH CURB AND GUTTER

VALVE BOX DETAIL

FOR VALVES 12" AND LARGER

1 OF 1 DATE 3-12-99 APP H. COREY

SHEET DWG. NO. W-6 DWG N. WOOTEN WATER RESOURCES ENGINEERING

## PROJECT TYPICAL DETAILS

CONC. TO PROVIDE DRAINAGE FROM

JNFORMED CONC.

SHEET DWG. NO.W-4

M.J. 45° BEND (DIP) W/ MECHANICAL RESTRAINT DEVICE

SEE GUC ENGINEERING DEPT.

ALL JOINTS TO BE RESTRAINED IN ACCORDANCE WITH MANUAL.

PLACE CONC. BLOCKING SUCH THAT IT WILL

PIPE LENGTHS SHALL BE AS REQUIRED TO CONSTRUCT CROSSING.

WATER MAIN AND STORM DRAIN CROSSING

1 OF 1 DATE 3-12-99 APP H. COREY

FIRE HYDRANT INSTALLATION

(FOR AREAS WITH CURB AND GUTTER)

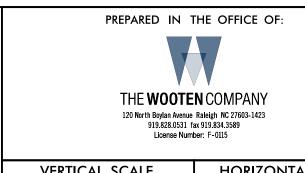
1 OF 1 DATE 3-12-99 APP H. COREY

DWG N. WOOTEN

LENGTH OF RESTRAINED PIPE

SHEET DWG. NO. W-14 DWG N. WOOTEN WATER RESOURCES ENGINEERING

W/ MECHANICAL RESTRAINT



HYDRANT TO BE PLUMB. IF ADJUSTMENT

VALVE BOX SHALL NOT BE INSTALLED IN CURB & GUTTER. MECHANICAL RESTRAINT DEVICES WILL

NOT BE ALLOWED ON THE PIPE

-6" GATE VALVE

LENGTH OF RESTRAINED PIPE

ONE JOINT OF DIP-

-M.J. 45° BEND (DIP)
W/ MECHANICAL RESTRAINT DEVICE
OR CONCRETE THRUST BLOCKING

PER SECTION 3.4.6.9.1

M.J. 45° BEND (DIP) W/ MECHANICAL RESTRAINT

GREENVILLE UTILITIES

WATER RESOURCES ENGINEERING

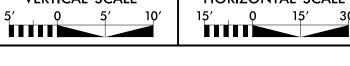
U-5606 UC-3A DESIGNED BY: JRG DRAWN BY: TK & CB CHECKED BY: DGM APPROVED BY: DGM 29997 NORTH CAROLINA DEPARTMENT OF **TRANSPORTATION** 

PROJECT REFERENCE NO.

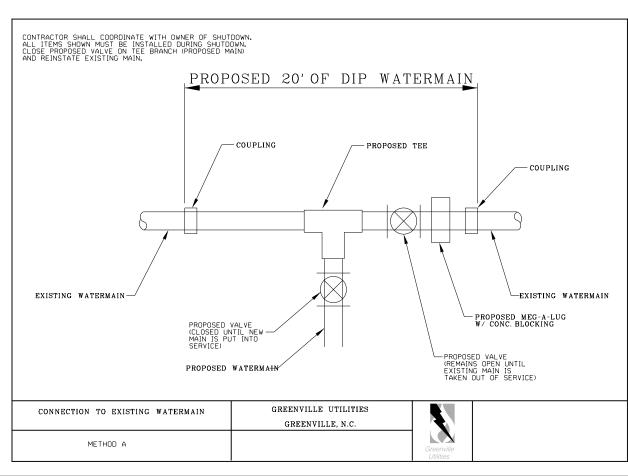
FAX: (919) 250-4151

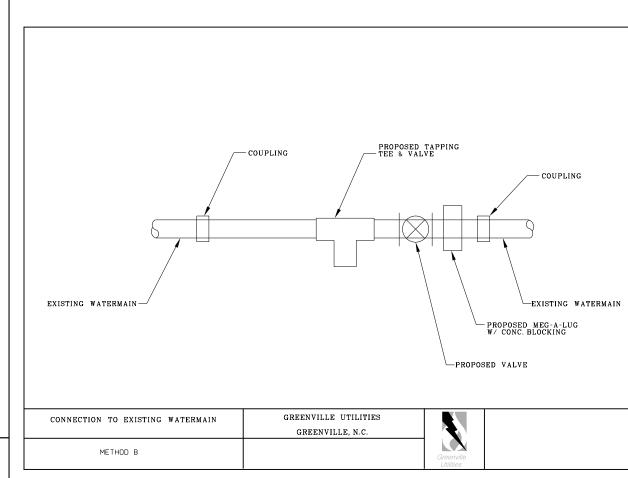
Document Not Considered Final Unless All Signatures Completed UTILITY CONSTRUCTION UTILITIES ENGINEERING SEC. PHONE: (919) 707–6690

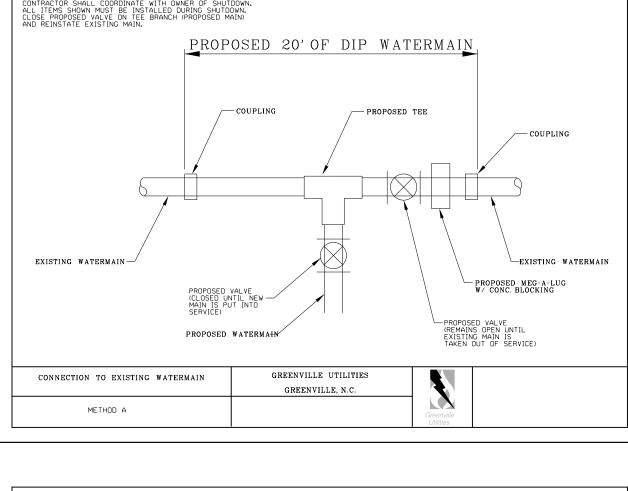
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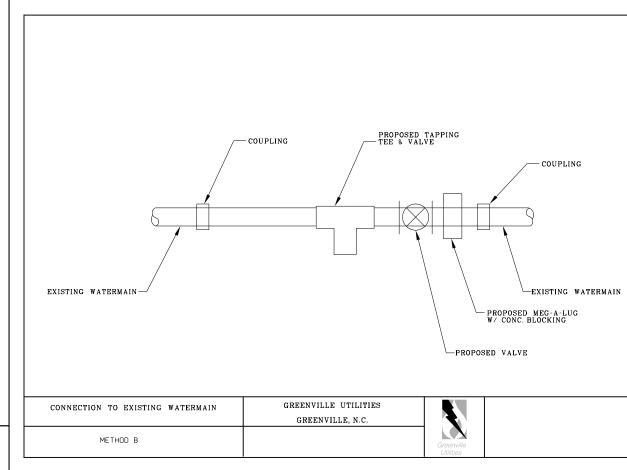


## UTILITY CONSTRUCTION









BACKFILL

FOUNDATION CONDITIONING FABRIC AS REQUIRED

-FOUNDATION

CONDITIONING AS REQUIRED

TRENCH DETAIL

PLACE FOUNDATION CONDITIONING MATERIAL BELOW
BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER.
PIPE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1)
OR CLASS III. TRENCH BACKFILLED IN LOOSE 6"
LAYERS COMPACTED TO TOP OF TRENCH USER LOCAL

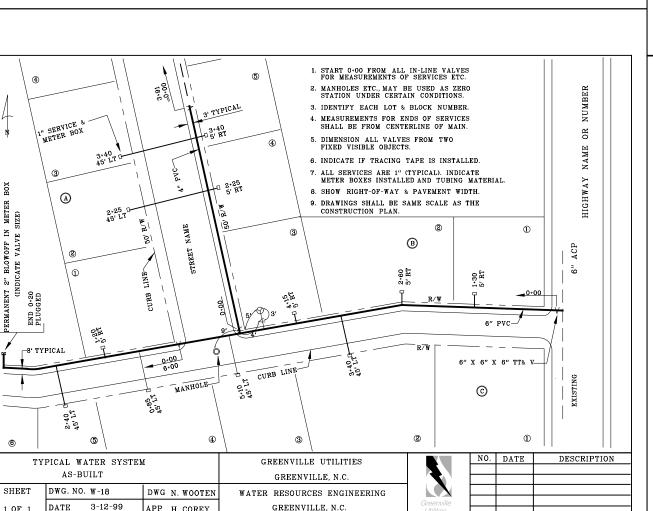
EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREÉ

OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH.

DEPARTMENT OF TRANSPORTATION.

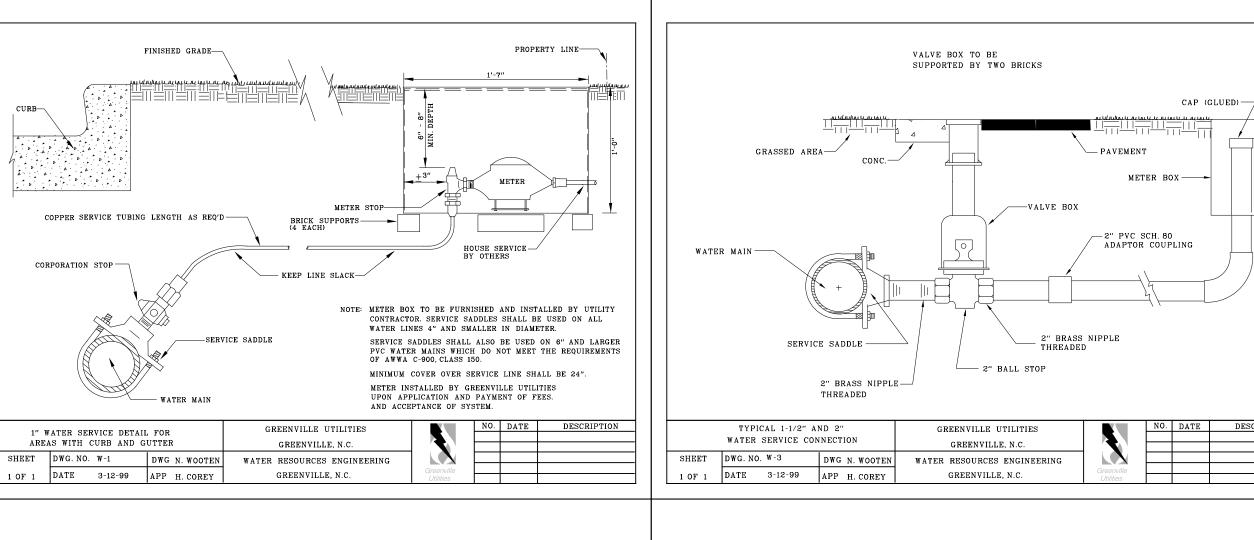
COMPACTION SHALL BE TO APPROXIMATELY 95% DENSITY

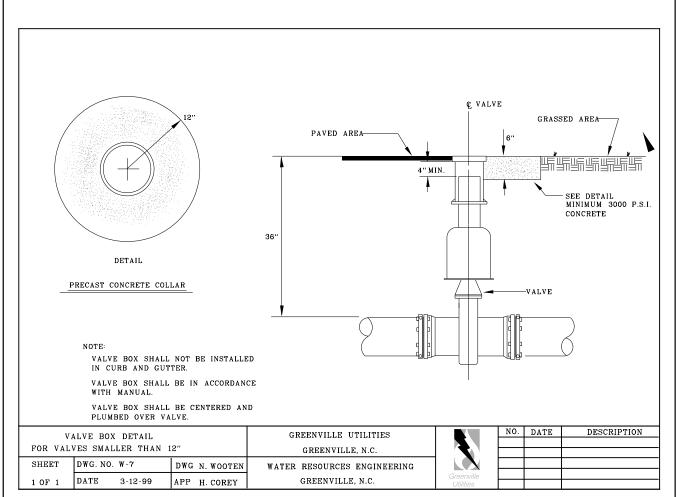
IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE

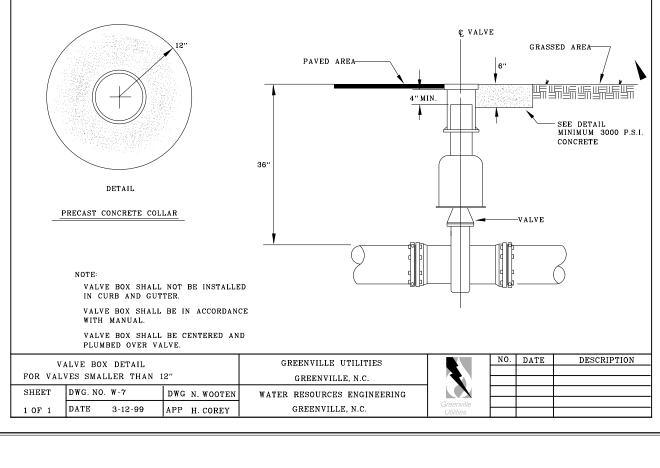


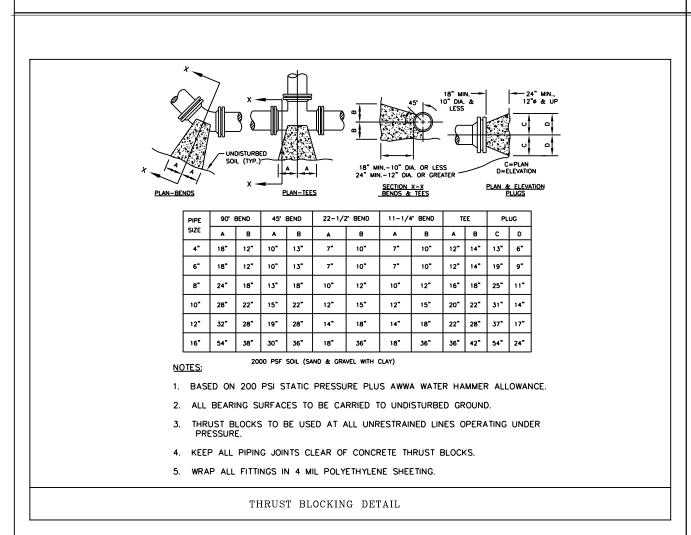
GREENVILLE, N.C.

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GREENVILLE, N.C.

24" PRECAST CONC. COLLAR

- VALVE BOX EXTENSION (IF REQUIRED) IN ACCORDANCE WITH MANUAL

BOTTOM IN ACCORDANCE WITH MANUAL.

