

THE FOLLOWING OFTEN—USED SOIL VALUES FOR THE DEPTHS OF 4 FEET ARE LISTED ONLY AS A GUIDE\*. THE ENGINEER SHOULD SELECT THESE BEARING VALUES FOR EACH SOIL TYPE AND DEPTH OF COVER ENCOUNTERED ON THE SPECIFIC PIPELINE PROJECT. APPROPRIATE SAFETY FACTORS SHOULD BE APPLIED TO COVER FUTURE CHANGES IN PIPE DEPTH, SOIL BEARING CAPACITIES, ETC.

BEARING LOAD (lbs/sq.ft.)

O
1.000
1.500
1.500
SOIL TYPE.
SOIL TYPE.

ON RESPONSIBILITY CAN BE ASSUMED FOR THE ACCURACY OF THE DATA IN THIS TABLE DUE TO THE WIDE VARIATION OF BEARING LOAD CAPABILITIES FOR EACH SOIL TYPE.

CHARLOTTE-MECKLENBURG

UTILITY DEPARTMENT

ENGINEERING DIVISION CHARLOTTE, NORTH CAROLINA

PROFILE Hor. NTS LOWERING OF 6" TO 12"

Surveyed By Designed By Drawn By Project-Engr Approved By Date 29

As Built Date

STANDARD DETAIL

WATER

WATER MAIN

\_\_CONCRETE \_\_THRUST\_BLOCK

TRANSITION COUPLING\_

PROFILE VIEW

( IF REQUIRED )

( IF REQUIRED )

\_\_CONCRETE \_\_THRUST\_BLOCK

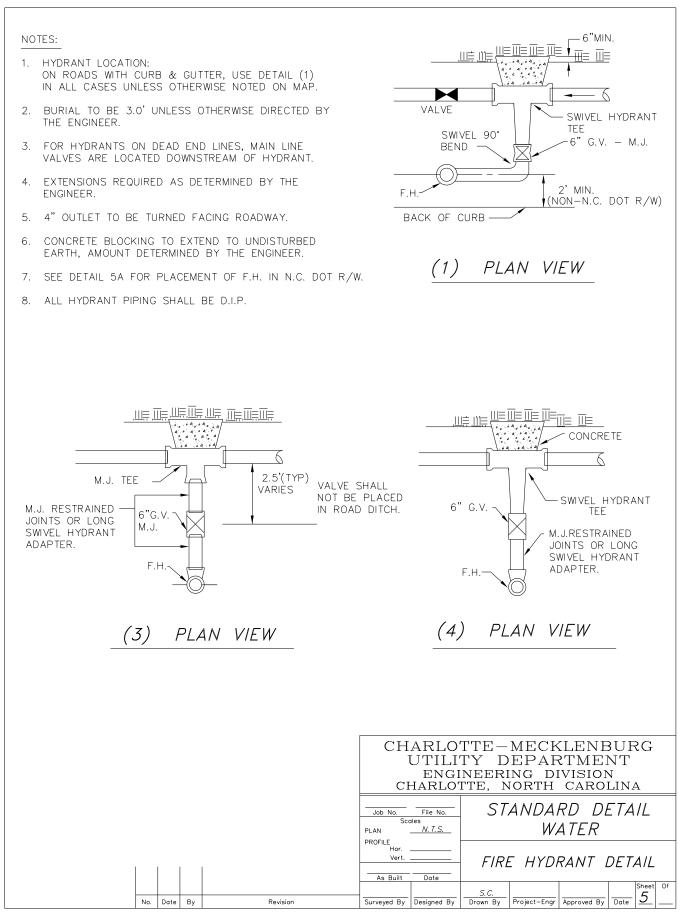
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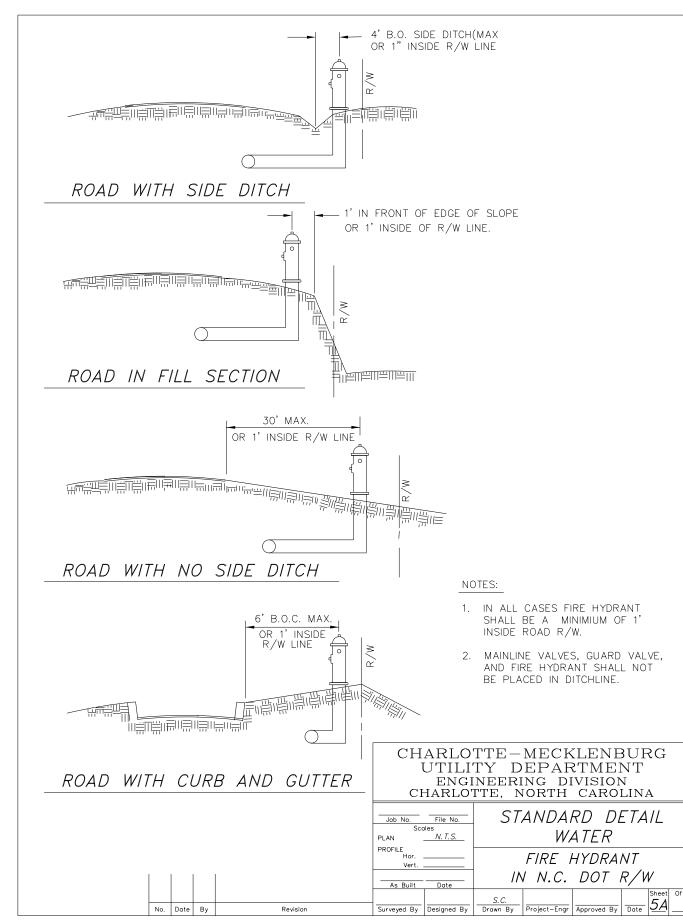
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SECTION A-A

THRUST BLOCK DETAIL

PLAN VIEW







**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED** 

PROJECT REFERENCE NO. SHEET NO. UC-3A U-5108 DESIGNED BY: JKC DRAWN BY: JNA DocuSigned by JKC( CHECKED BY: Clint LEAStevens APPROVED BY: CLS 040370 REVISED: NORTH CAROLINA DEPARTMENT OF ON NGINEEN TRANSPORTATION 3/6/2024 UTILITIES ENGINEERING SEC PHONE: (919)707-6690 UTILITY CONSTRUCTION FAX:(919)250-4151 PLANS ONLY

UTILITY CONSTRUCTION

## LIST OF CLTW STANDARD DETAILS

## WATER:

- AA PRECAST CONCRETE METER BOX 0.75-INCH DOMESTIC WATER SERVICE
- PRECAST CONCRETE METER BOX 1-INCH DOMESTIC AND IRRIGATION WATER SERVICE
- FF CAST IRON VALVE BOX 12-INCH AND SMALLER VALVES
- GG VALVE BOX ADJUSTMENT FOR PAVEMENT RESURFACING
- HH VALVE BOX ASSEMBLY INSTALLATION 12-INCH AND SMALLER VALVES
- MULTIPLE WATER SERVICES SCHEMATIC
- K-1 3-4THS AND 1-INCH DOMESTIC WATER SERVICE CONNECTION PART ONE
- K-2 3-4THS AND 1-INCH DOMESTIC WATER SERVICE CONNECTION PART TWO
- LL DEAD END THRUST WALL BLOCKING WITH 2-INCH BLOW-OFF 14 TO 30-INCH MAINS
- M 1.5 INCH DOMESTIC WATER SERVICE CONNECTION
- MM VALVE BOX CONCRETE GRADE RINGS AND FOOTINGS
- OO PLASTIC WATER METER BOX AND LID 0.75-INCH DOMESTIC WATER SERVICE
- PP WATER METER BOX PLASTIC LID 0.75 AND 1-INCH DOMESTIC WATER SERVICES
- 2-INCH DOMESTIC WATER SERVICE CONNECTION
- SS TYPE 6 20.5-INCH MANHOLE COVER USE WITH 16-INCH AND LARGER VALVES
- TT TYPE F 20.5-INCH MANHOLE FRAME 7-INCH TALL
- TW1-3 WATER TRACER DETAILS
- VV FIRE HYDRAINT PAINT COLOR SCHEMES CMUD-CFD STANDARDS PUBLIC AND PRIVATE HYDRANTS