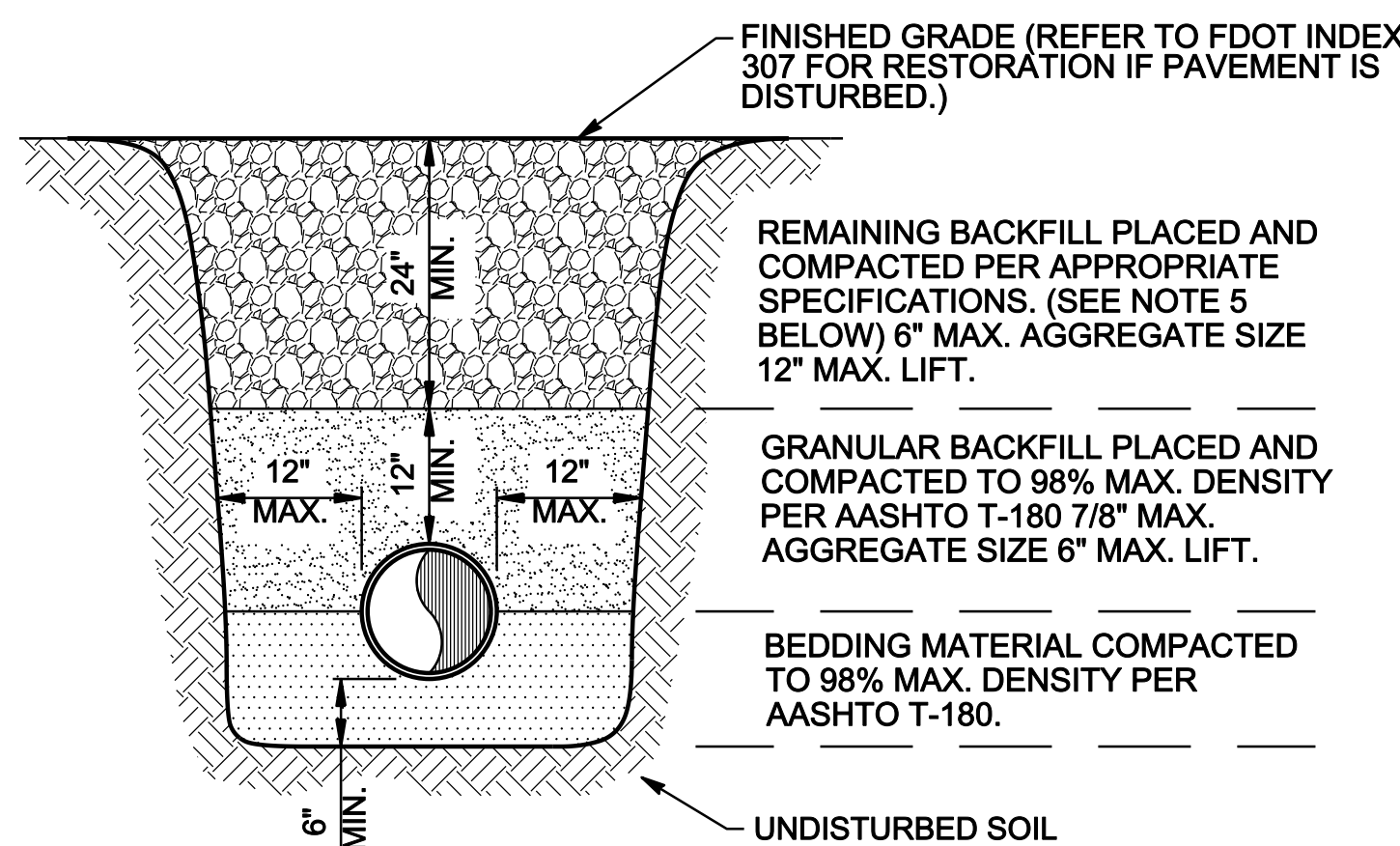


MARKING TAPE AND MESSAGES		
SYSTEM PIPE	TAPE COLOR	MESSAGE TEXT
PVC STORM WATER	WHITE	CAUTION STORM WATER OR STORM DRAIN BELOW
POTABLE WATER MAIN	BLUE	CAUTION POTABLE WATER MAIN BELOW
REUSE WATER MAIN	PURPLE	CAUTION REUSE WATER MAIN BELOW
SEWER FORCE MAIN	GREEN	CAUTION SEWER FORCE MAIN BELOW
SWR & SERV LATERALS	GREEN	CAUTION SEWER MAIN BELOW

NOTES:

- #12 GAUGE INSULATED COPPER TRACING WIRE SHALL BE ATTACHED TO TOP OF PIPE AT 20" INTERVALS ON ALL RECLAIMED WATER, FORCE OR POTABLE WATER MAINS.
- INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- CONFLICTS - UTILIZE 45 DEGREE AT FITTINGS WITH SEPARATION PER ENGINEER.

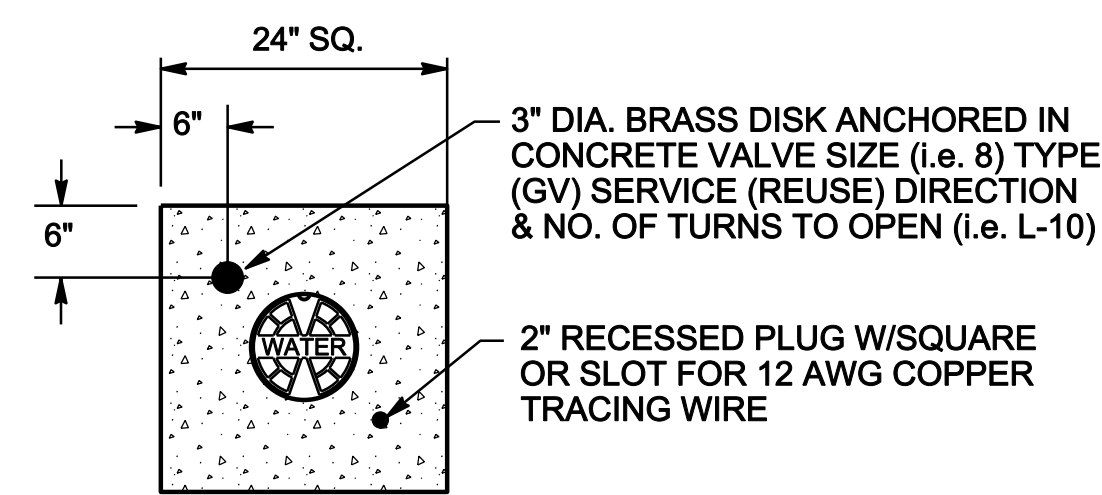
1 WATER MAIN MARKING/TRACING INSTALLATION DETAIL
C-501 NO SCALE



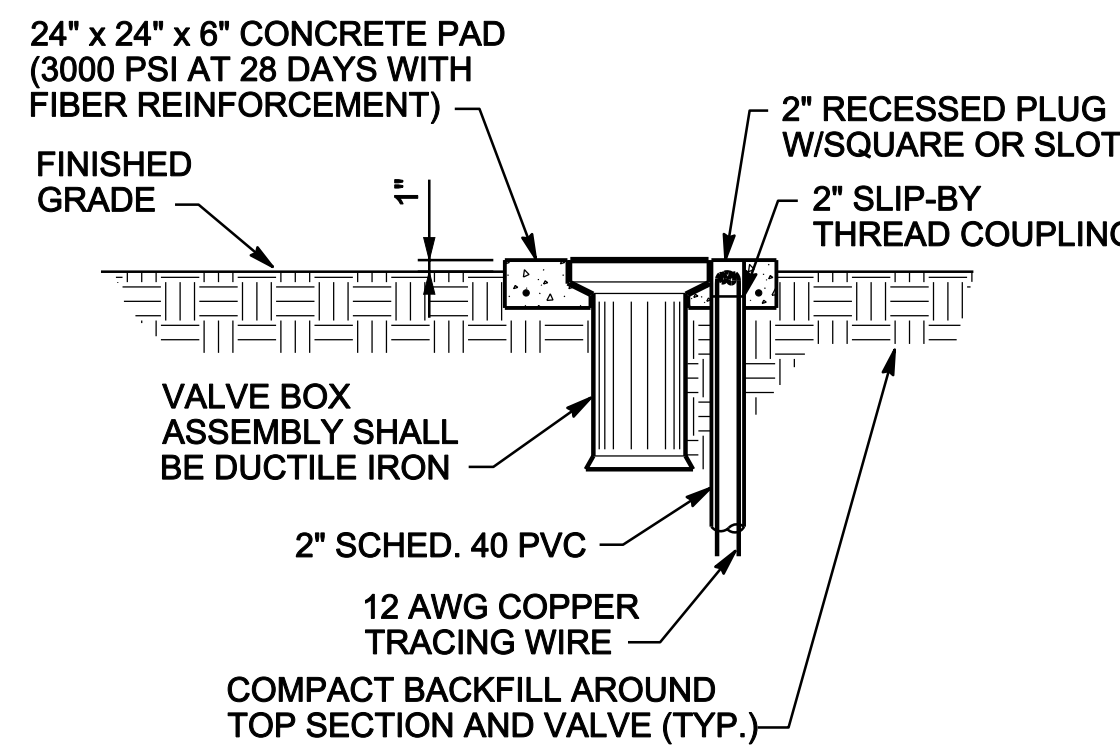
NOTES:

- UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGE ROCKS SHALL BE REMOVED. BEDDING MATERIAL AND BACKFILL CONSISTING OF WASHED AND GRADED LIMEROCK 3/8" TO 7/8" SIZING.
- THE PIPE AND/OR STRUCTURE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
- THE PIPE AND/OR STRUCTURE SHALL BE PLACED IN A DRY TRENCH.
- BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK MUCK AND DEBRIS.
- COMPACT BACKFILL TO 98% DENSITY UNDER PAVEMENT AND TO 95% DENSITY ELSEWHERE. (AASHTO T-180)
- COMPACTION AND DENSITY TESTS SHALL BE COMPLETED DURING BACKFILL OPERATIONS. FAILURE TO COMPLY WITH THIS PROCEDURE, SHALL REQUIRE THE CONTRACTOR TO RE-EXCAVATE THE AREA IN QUESTION, DOWN TO THE BEDDING MATERIAL, THEN REPLACE BACKFILL FOLLOWING THE ABOVE PROCEDURE.
- IF ASHALT IS DAMAGED, USE THE FOLLOWING FOR RESTORATION: REFERENCE FDOT SECTION 125 STD SPECIFICATION AND INDEX NO. 307 ON SHEET C-708.
- USE FDOT 57 STONE WHERE COMPACTION CANNOT BE OBTAINED. (E.G. BETWEEN PIPES CROSSING IN TRENCH).
- ANY DISTURBED AREAS WITHIN R.O.W. SHALL BE RESTORED AND THEN SOD SHALL BE INSTALLED WHERE NEEDED.

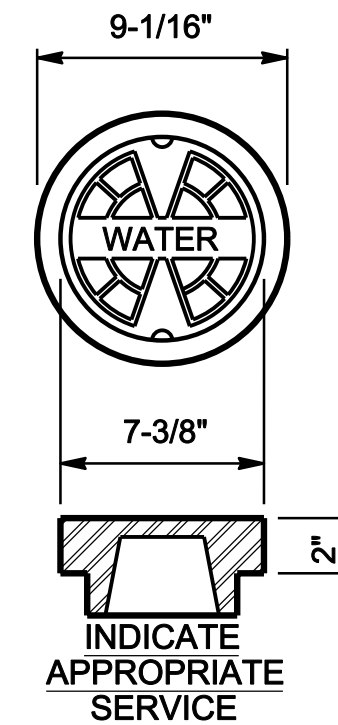
4 TYPICAL PIPE TRENCH BACKFILL DETAIL
C-501 NO SCALE



PLAN VIEW



SECTION VIEW

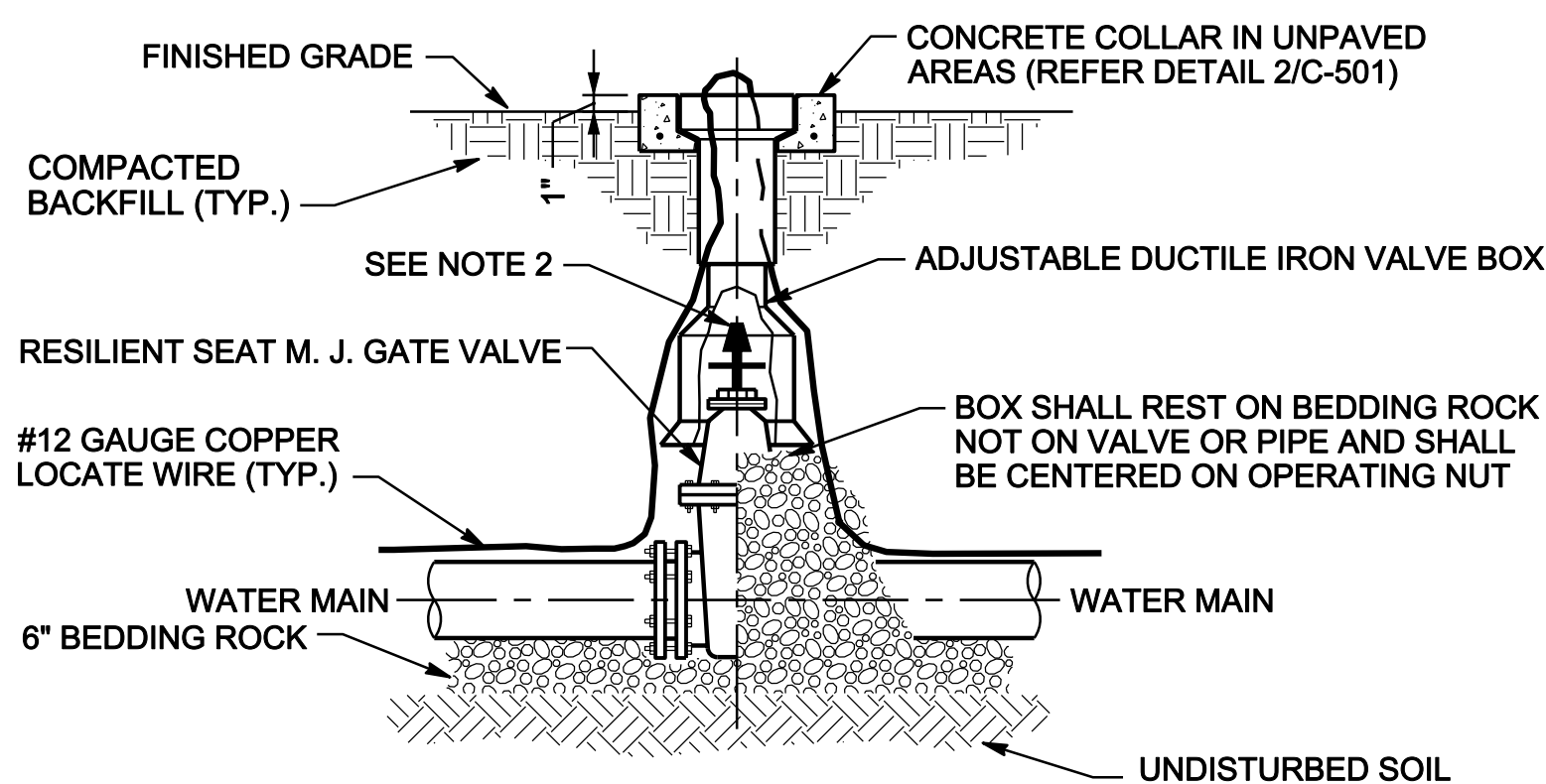


COVER DETAIL

NOTES:

- PAVED AREAS: SET CONCRETE PAD AND COVER FLUSH WITH FINISHED PAVEMENT SURFACE.
- UNPAVED AREAS: SET PAD AND COVER 1 INCH ABOVE FINISHED GRADE.
- VALVES LOCATED IN DITCH AND OVER 4' DEPTH (LINE) MUST USE TRENCH ADAPTER VALVE BOX (AMERICAN FLOW CONTROL).

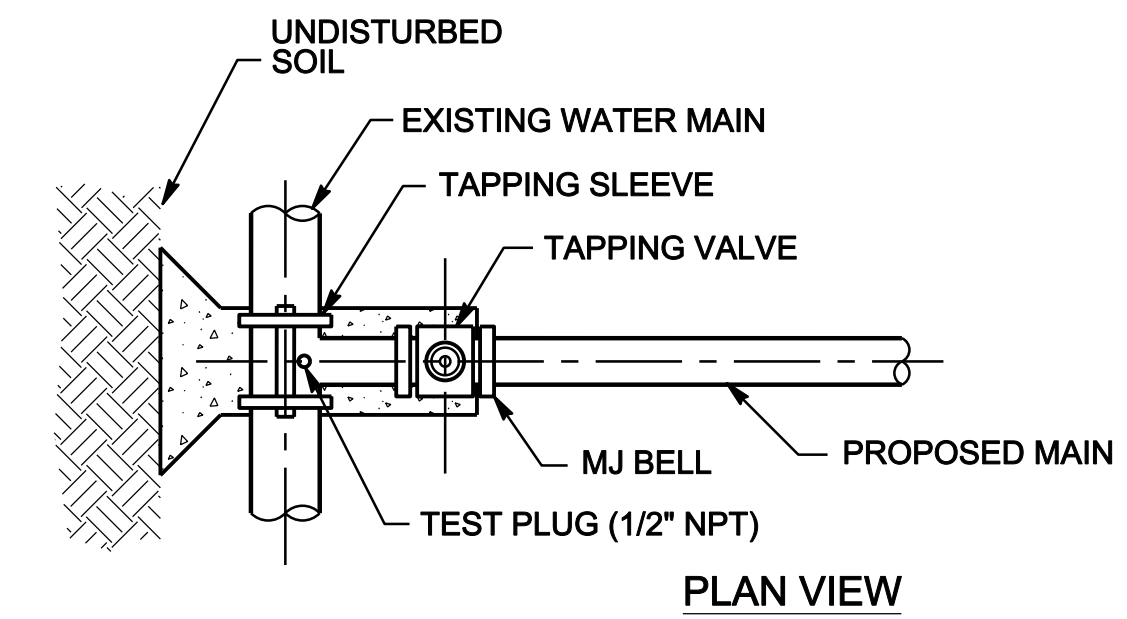
2 TYPICAL VALVE BOX INSTALLATION DETAIL
C-501 NO SCALE



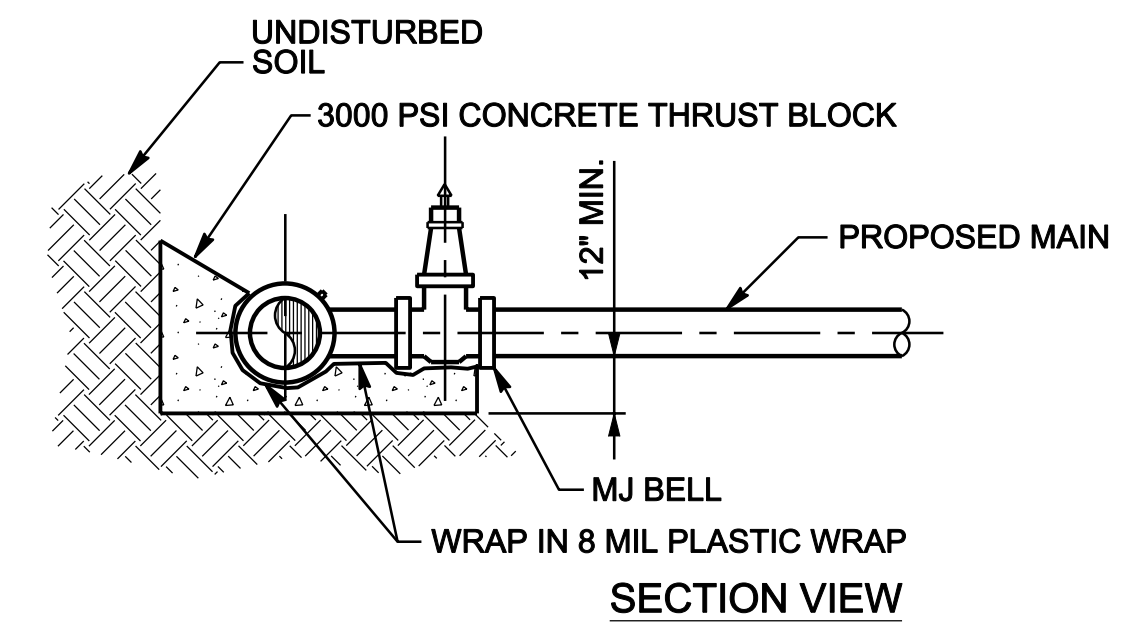
NOTES:

- PVC EXTENSIONS MAY BE USED ON VALVE BOX INSTALLATION.
- THE ACTUATING NUT FOR VALVES FOUR FOOT DEEP AND DEEPER SHALL BE EXTENDED TO WITHIN 6" OF FINAL GRADE.
- LOOP #12 GAUGE LOCATE WIRE UP THRU VALVE BOX.
- NO VALVES SHALL BE MORE THAN 4' DEEP UNLESS APPROVED BY TOWN ENGINEER.

5 GATE VALVE & CONCRETE COLLAR DETAIL
C-501 NO SCALE



PLAN VIEW



SECTION VIEW

NOTES:

- EXISTING MAIN SHALL NOT BE TAPPED UNTIL THE ASSEMBLED SLEEVE AND VALVE ARE TESTED IN PLACE PER SPECIFICATION.
- UPON SUCCESSFUL TAPPING SLEEVE PRESSURE TEST (SEE NOTE 1), THE THRUST BLOCK SHALL BE POURED AND HAVE SET FOR 24 HRS PRIOR TO TAPPING READY-MADE THRUST BLOCKS CAN BE USED WITH CITY APPROVAL.
- STAINLESS STEEL TAPPING SLEEVE SHALL BE FORD OR EQUAL. ALL HARDWARE SHALL BE STAINLESS STEEL. GASKETS SHALL BE VIRGIN SBR COMPOUND FOR WATER SERVICE.
- GATE VALVES SHALL BE RESILIENT WEDGE-TYPE MANUFACTURED BY MUELLER OR EQUAL. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C550, AND BE NSF61 CERTIFIED.

3 TAPPING SLEEVE AND VALVE DETAIL
C-501 NO SCALE

DATE: _____
 REVISIONS: _____
 DESIGNED BY: NO. _____
 PROJECT MANAGER: LAURA S. ANDREWS, PE
 DRAWN BY: ABE
 FILE NAME: LBK_WTR_C-501.DWG
 DATE: 10/17/08
 ACCOUNT: _____
ENGINEERING VISIONS, INC.
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 FL COAW# 26755
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UPSIZE POTABLE WATER TRANSMISSION MAIN
TOWN OF LONGBOAT KEY, SARASOTA COUNTY, FLORIDA
TYPICAL PIPING AND EQUIPMENT INSTALLATION DETAILS I
DRWG. NO: C-501
SHT. 43 OF 55