

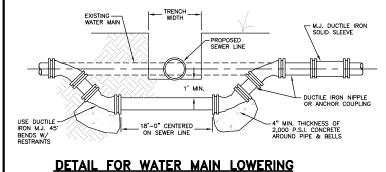
- 1. MANHOLE COVER AND FRAME SHALL HAVE A MINIMUM TOTAL WEIGHT OF 500 LBS.
- 2. MANHOLE FRAME SHALL HAVE A MINIMUM CLEAR OPENING OF 30"

WATER STOP GASKET FOR

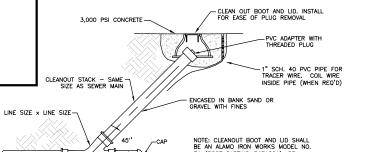
**ALL MANHOLE CONNECTIONS** 

- APPROVED MANHOLE RING AND COVERS ARE AS FOLLOWS: EAST JORDAN IRON WORKS MODEL V-1420 OR APPROVED EQUAL. TWO (2) VENT HOLES SHALL BE PROVIDED IN EVERY THIRD MANHOLE COVER NOT TO EXCEED 1500' SPACING BETWEEN MANHOLE COVERS WITH VENT HOLES.
- 5. AN INFLOW PROTECTOR ACCEPTABLE TO THE CITY OF CALDWELL SHALL BE INSTALLED ON ALL MANHOLES IN DRAINAGE DITCHES OR IN AREAS SUSCEPTIBLE TO STORM WATER INUNDATION, WHEN NOTED ON THE PLANS, A CONCRETE PAD SHALL BE INSTALLED AROUND THE TOP OF MANHOLES SEE PLANS FOR LOCATIONS & SIZE OF CONCRETE PADS.
- 6. BRICK MANHOLES SHALL NOT BE USED NOR SHALL BRICK BE USED TO ADJUST MANHOLE COVERS TO GRADE.

## STANDARD CAST IRON MANHOLE COVER & FRAME

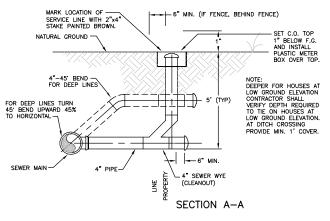


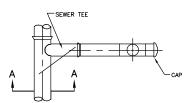
NOTE: ALL M.J. FITTINGS SHALL BE RESTRAINED



# NOTE: CLEANOUT BOOT AND LID SHALL BE AN ALAMO IRON WORKS MODEL NO. 71 (BOOT CASTING—3471001), OR

STANDARD CLEANOUT

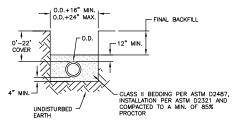




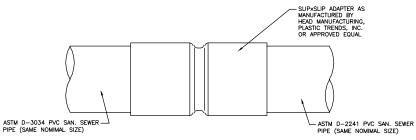
### TYPICAL SERVICE CONNECTION

- NOTES:

  1. ALL SERVICE LINES SHALL BE 4" SDR-26 P.V.C. PIPE.
  2. SERVICE TAPS ON V.C.P. SHALL BE MADE WITH A 4" "T" TAP SADDLE DICKEY MODEL NO. YTO400003 OR EQUAL. A 4" E.T.C.O. ADAPTER DICKEY MODEL NO. 442 ZE 042000 OR APPROVED EQUAL SHALL BE USED TO ADAPT FROM THE ABOVE TAP SADDLE TO 4" SDR-26 P.V.C. PIPE.
  3. SERVICE TAPS ON DUCTILE IRON PIPE SHALL BE MADE WITH A 4" P.V.C. SADDLE AS MANUFACTURED BY GPK PRODUCTS OF FARGO N.D. OR EQUAL.
  4. SERVICE CONNECTIONS FOR P.V.C. PIPE SHALL BE MADE WITH SERVICE TEES OF THE SAME A.S.T.M. DESIGNATION AS THE MAIN LINE.
  5. ALL SERVICE WYES AND P.V.C. SERVICE LINE SHALL BE ENCASED IN SAND OR GRAVEL WITH FINES.



### **EMBEDMENT CROSS** SECTION FOR P.V.C. PIPE



# DETAIL FOR JOINING ASTM D-3034 PVC WITH ASTM D-2241 PVC PIPE

## -UNTAMPED BACKFILL LIGHTLY TAMPED -BACKFILL (70% STANDARD PROCTOR) 0.D./2 TYPE 1 FOR I.D.<16" ONLY TYPE 2 UNTAMPED BACKFILL - UNTAMPED BACKFILL LIGHTLY TAMPED — BACKFILL (70% STANDARD PROCTOR) LIGHTLY TAMPED BACKFILL (70% STANDARD PROCTOR .067 DIA. -0.D./2 CAREFULLY COMPACTED -GRANULAR OR SELECT MATERIAL (80% STANDARD PROCTOR)

# EMBEDMENT CROSS SECTION FOR DUCTILE IRON PIPE

WHEN CALLED FOR ON PLANS MIN. 1 1/2" TYPE D HOT MIX ASPHALTIC CONCRETE AND TACK COAT PER TXDOT ITEM 340, OTHERWISE, START 10" BASE AT PAVEMENT SURFACE. -PRESERVE REINFORCING & BEND TO SIDE OF TRENCH. INSTALL NEW REINFORCING TO MATCH PRE-EXISTING AND REPLACE PAVEMENT WITH 3000 PSI CONCRETE MATCHING THICKNESS OF EXISTING. SIDES, 1" MIN. DEPTH, OR AS NEEDED TO PROVIDE STRAIGHT EDGE FOR REPAIR - SAWCUT EXISTING PAVEMENT BOTH SIDES -10" MIN. THICKNESS CRUSHED LIMESTONE BASE MATERIAL (TYPE A, GRADE 1 OR 2) COMPACTED TO 95% MOD. PROCTOR. COMPACTED TO MIN. 95% STD. PROCTOR WITH A P.I. THAT 5<P.I.<20 **ASPHALT** CONCRETE

> PAVEMENT REPAIR FOR SEWER LINES IN PAVED STREETS, ALLEYS OR DRIVEWAYS

CITY OF CALDWELL
CITY STANDARD DETAILS

**SEWER DETAILS** 

JOB NO. 3901 020 PROJECT MGR



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SECTION VIEW PRECAST CONCRETE MANHOLE DICKEY BANDED TYPE ADAPTER OR APPROVED EQUAL

MANHOLE PLAN VIEW

**DETAIL FOR JOINING PIPES OF** DIFFERENT TYPE MATERIAL

PER ASTM A 746-77 TYPE 1 THRU 5