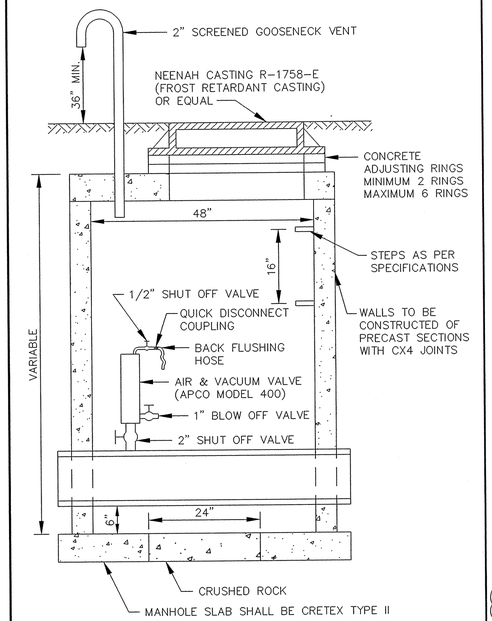
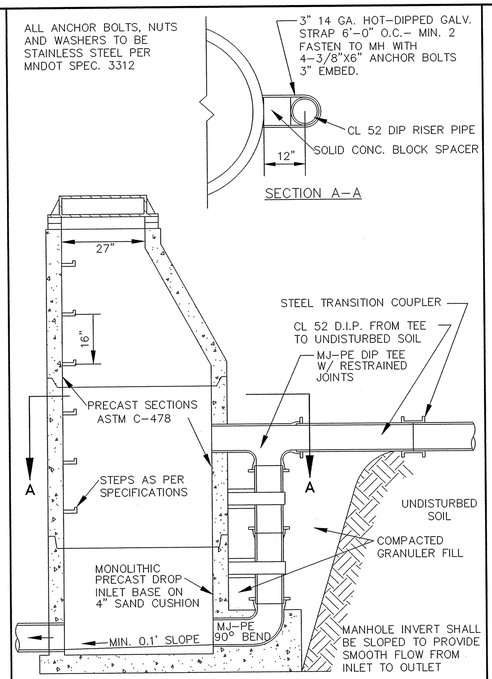
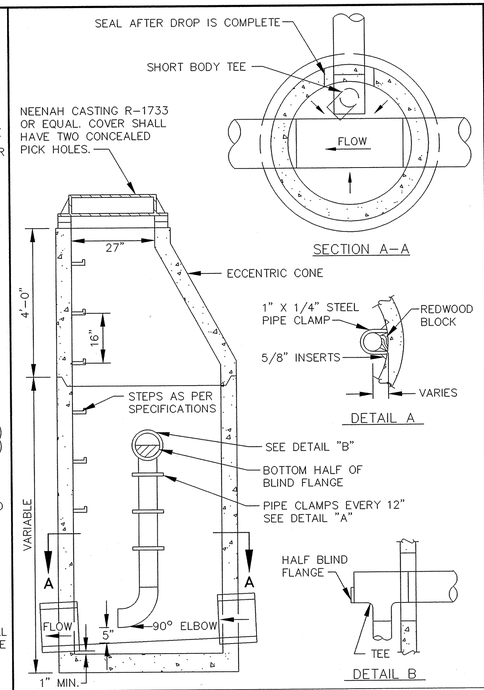


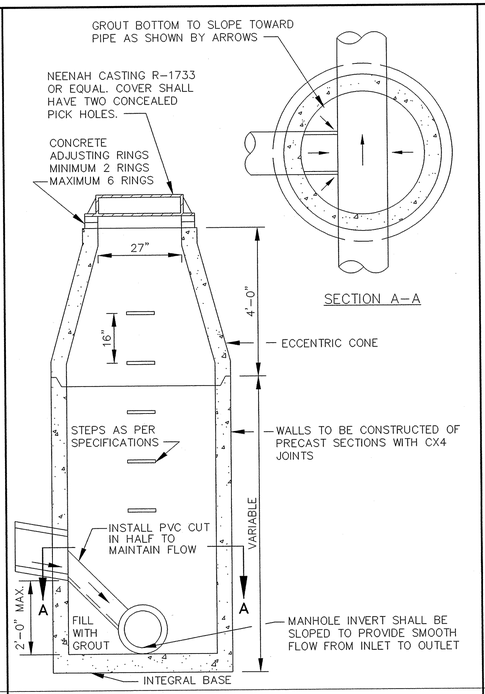
STANDARD AIR RELIEF MANHOLE



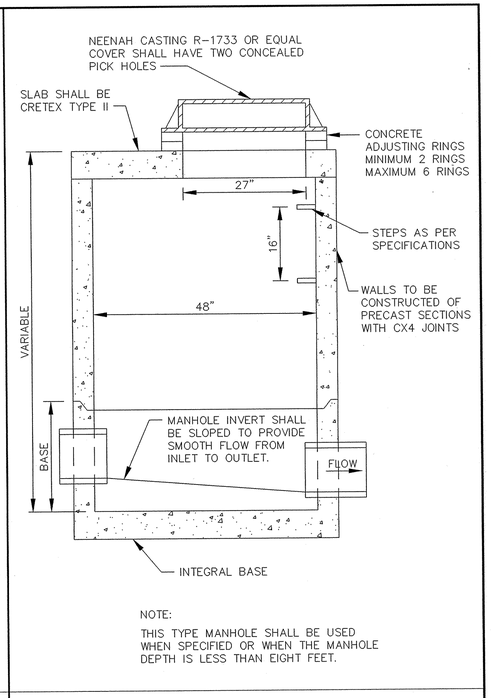
OUTSIDE DROP MANHOLE



INSIDE DROP MANHOLE

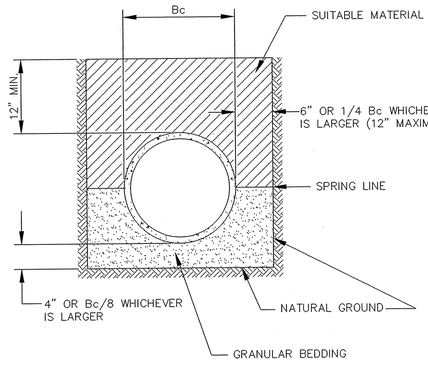


INSIDE DROP MANHOLE (TWO FEET OR LESS)



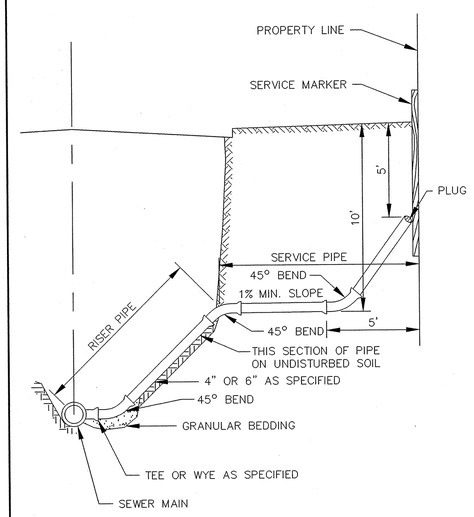
NOTE:
THIS TYPE MANHOLE SHALL BE USED WHEN SPECIFIED OR WHEN THE MANHOLE DEPTH IS LESS THAN EIGHT FEET.

SLAB TOP MANHOLE



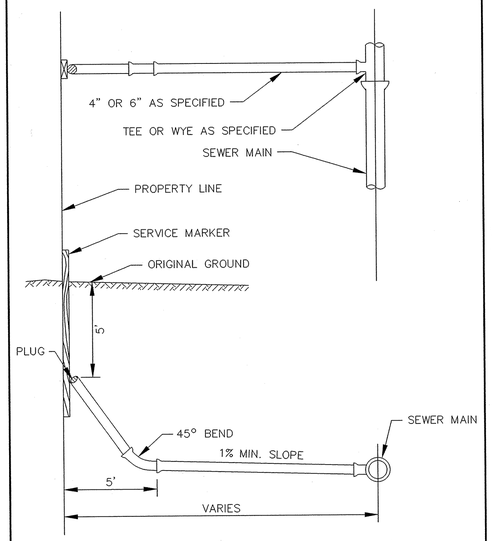
NOTE: ALL COSTS OF EXCAVATION BELOW GRADE AND PLACEMENT OF GRANULAR BEDDING SHALL BE INCLUDED IN THE BID PRICES FOR PIPE ITEMS.

CLASS B PIPE BEDDING

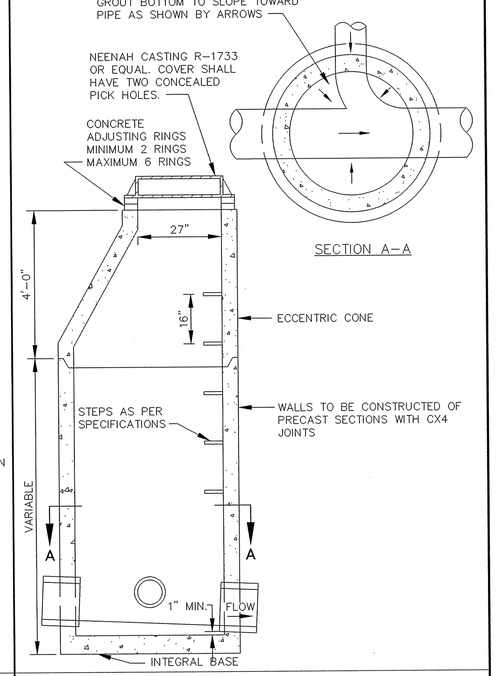


TO BE USED AS SERVICE CONNECTIONS ON DEEP LINES

SERVICE RISER SECTION



TYPICAL HOUSE SERVICE



STANDARD MANHOLE

CONTRACTOR: RYAN CONTRACTING, INC.
RECORD DRAWING
CONFORMING TO CONSTRUCTION RECORDS.
BY S. HUTTNER DATE 7/20/01
WESTWOOD PROFESSIONAL SERVICES

Westwood
Westwood Professional Services, Inc
104 Marty Drive, Suite 3
Buffalo, MN 55313
612 682-2587

PREPARED FOR:
D.R. Horton, INC.
3459 Washington Drive
Suite 204
Eagan, Minnesota 55122

DESIGNED BY: --- DRAWN BY: --
APPROVED: --- JOB NUMBER ---
CAD DATE: April 14, 1999 11:14:59 a.m.
CAD FILE: 230000m\ER-SM.DWG

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE _____ REG.NO. _____

NO.	DATE	BY	REVISION DESCRIPTION

1326 ENERGY PARK DRIVE
ST. PAUL, MINNESOTA 55108
(612) 644-4389
Howard R. Green Company
CONSULTING ENGINEERS

CITY OF ELK RIVER
TROTT BROOK FARMS
SANITARY SEWER DETAILS

SHEET NO. 28 OF 32

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