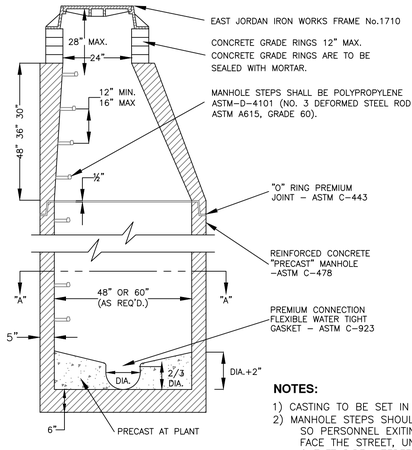


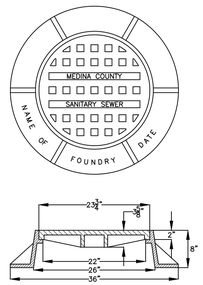
STANDARD MANHOLE

NOTES:

1) CASTING TO BE SET IN BED OF MORTAR.
2) MANHOLE STEPS SHOULD BE CONSTRUCTED SO PERSONNEL EXITING THE MANHOLE FACE THE STREET, UNLESS AN INLET OR OUTLET PIPE INTERFERES.
3) MINIMUM TWO FOOT PIPE SECTION MUST CONNECT INTO THE MANHOLE
4) MANHOLE BASE TO BE SET ON A MINIMUM OF 6" CRUSHED #57 LIMESTONE.

MANHOLE DIAMETER TABLE		
PIPE SIZE	INSIDE DIA. OF MANHOLE	TYPE OF MANHOLE
8"–30"	48"	PRECAST
36"–48"	60"	PRECAST
54"–60"	72"	PRECAST
72"–84"	96"	PRECAST

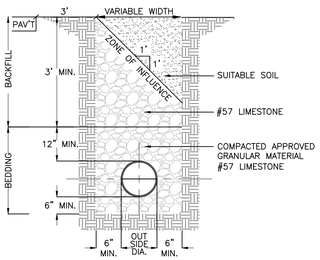
DROP PIPE DIAMETER TABLE	
PIPE SIZE	DROP PIPE SIZE
6"–10"	6"
12"–15"	8"
18"–21"	10"
24"	12"
27"	15"
30"	18"
36"	24"
RESIDENTIAL ONLY	
4"	4"



MANHOLE CASTING & LID

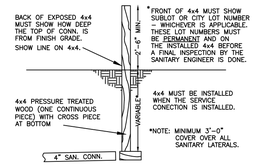
NOTES:

1) BOLT DOWN MANHOLE LIDS ARE REQUIRED ON ALL SANITARY MANHOLES LOCATED IN EASEMENTS. THE CASTING SHALL BE EAST JORDAN IRON WORKS FRAME NO. 1710 TWO (2) BOLT (ALL BOLTS TO BE STAINLESS STEEL).
2) 4"X4" BOX OUT AROUND FRAME IN PAVEMENT AREAS. CONTACT LOCAL ROAD AUTHORITY FOR SPECIFICATIONS. CONCRETE FOR BOX OUT SHALL BE THE SAME AS PAVEMENT.
3) MANHOLE FRAME SHALL BE EAST JORDAN IRON WORKS FRAME 1710 WITH TYPE "A" COVER.
4) WATERTIGHT MANHOLE FRAME & COVER SHALL BE EAST JORDAN 1120 PT WITH FOUR STAINLESS STEEL BOLTS.
5) CASTING TO BE INSTALLED IN BED OF MORTAR.
6) IF PRIVATE MANHOLE "MEDINA COUNTY" SHALL BE REPLACED WITH "PRIVATE" OR LID SHALL STATE "SANITARY SEWER" ONLY.



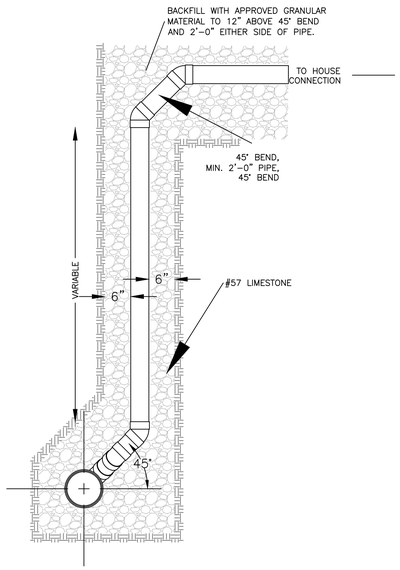
ALL FLEXIBLE PIPE (PVC) BEDDING & BACKFILL SHALL BE IN ACCORDANCE WITH ASTM D-2321

TYPICAL TRENCH SECTION

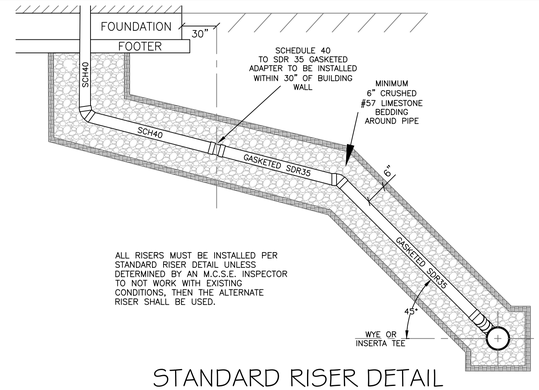


TYP. SEWER CONNECTION MARKER DETAIL

(TO BE PLACED AT THE END OF EVERY SANITARY LATERAL)



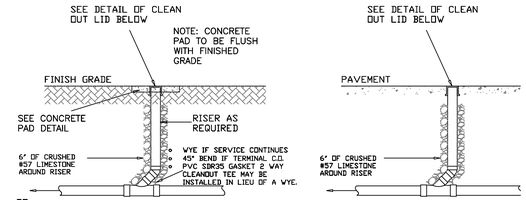
ALTERNATE RISER DETAIL

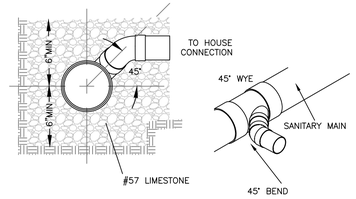


ALL RISERS MUST BE INSTALLED PER STANDARD RISER DETAIL UNLESS DETERMINED BY AN M.C.S.E. INSPECTOR TO NOT WORK WITH EXISTING CONDITIONS, THEN THE ALTERNATE RISER SHALL BE USED.

STANDARD RISER DETAIL

- TRAFFIC / LOAD BEARING - TYPICAL CLEAN OUT DETAIL

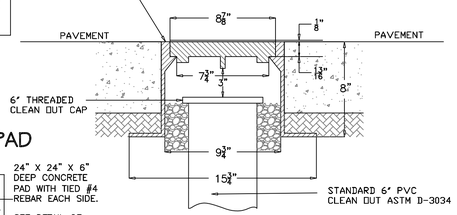




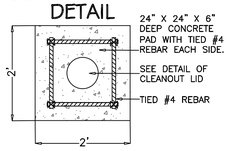
WYE DETAIL

NOTE: THERE MUST BE A 3" GAP FROM THE BOTTOM OF THE STEEL COVER TO THE TOP OF THE PLASTIC CAP

EAST JORDAN HEAVY DUTY LID 1574 OR APPROVED EQUAL

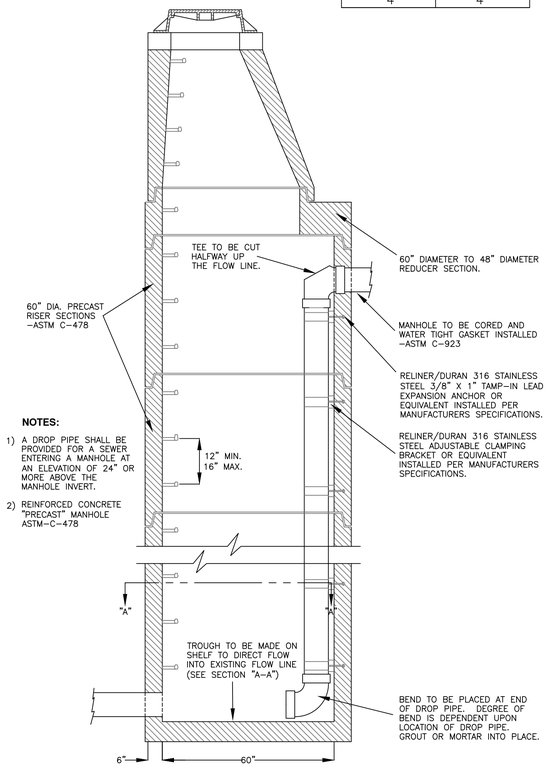


CONCRETE PAD DETAIL



NOTE: MAXIMUM SPACING BETWEEN CLEANOUTS IS 95'

NOTE: STONE SHALL BE CRUSHED #57 LIMESTONE



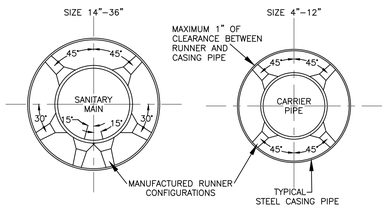
NOTES:

1) A DROP PIPE SHALL BE PROVIDED FOR A SEWER ENTERING A MANHOLE AT AN ELEVATION OF 24" OR MORE ABOVE THE MANHOLE INVERT.
2) REINFORCED CONCRETE "PRECAST" MANHOLE ASTM-C-478

INSIDE DROP MANHOLE

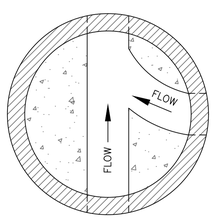
NOTES:

1) CASING SPACERS ARE TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
2) SEWER LINES SHALL BE HELD TO SPECIFIED SLOPE.
3) CASING DIAMETER SHALL BE 3/8" UNLESS UNDER A RAILROAD IN WHICH CASING THICKNESS IS 5/8".
4) CASING PIPE SHALL EXTEND A MIN. OF 10' FEET FROM EDGE OF ROAD PAVEMENT.



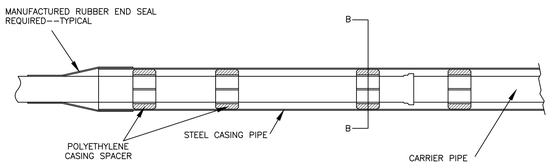
SECTION "B"-"B"

SPACER CROSS SECTION

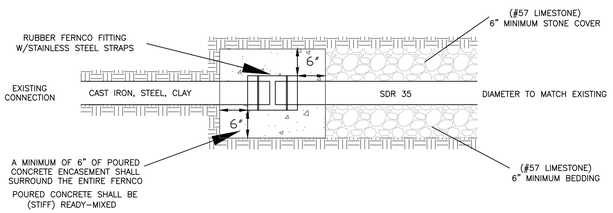


SECTION "A"-"A"

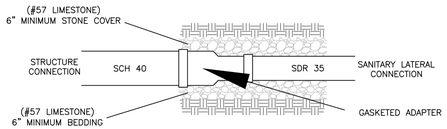
MANHOLE BASE



CASING DETAIL



TYPICAL HOUSE RECONNECTION / REPAIR (CAST IRON, STEEL, CLAY TO PLASTIC)



- GASKETED ADAPTER TO BE INSTALLED WITHIN 30" FROM FOUNDATION. (RESIDENTIAL/COMMERCIAL)
- GREASE/OIL INTERCEPTOR – GASKETED ADAPTER TO BE INSTALLED WITHIN 30" DOWN STREAM OF OUTLET OF INTERCEPTOR.
- * WHEN CONNECTING TO PIPES OF DIFFERENT DIAMETER – ECCENTRIC ADAPTER (MATCHING FLOWLINE) – TO BE INSTALLED.

– PLASTIC PIPES –

- INCLUDES BUT NOT LIMITED TO: PVC, ABS, HDPE PIPE–BURSTING, DIRECTIONALLY DRILLING, OR CASE BORE APPLICATIONS WHEN CONVERTING FROM/TO ASTM D3034 SDR 35 PIPE.

TYPICAL SANITARY CONNECTION (PLASTIC TO PLASTIC)

J:\AUTOCAD\MCSE GENERAL NOTES AND DETAIL SHEETS\SANITARY DETAILS\SANITARY STANDARDS 2024.DWG

SCALES : N/A		
COUNTY: MEDINA	DATE: MAR 2019	BY:
DRAWN BY: N/A	REVIEWED BY:N/A	
03/01/2016	Updated Standard Sanitary Manhole Detail & Diameter	EJ
09/26/2017	Updated Casing Detail	BR
12/12/2017	Updated SAN MH & Inside Drop, Removed Alt MH Base	BR
02/01/2021	Updated Misc.Details	EJ
03/28/2022	Update of language for carrier pipe spacing	EJ
01/23/2023	Revised language for concrete ready-mix	EJ
06/28/2023	Added Load Bearing Clean out Detail	EJ
01/24/2024	Updated Typical Trench Section Detail	EJ

- SANITARY SEWER STANDARDS -
####
####

- PLAN PREPARED BY -
MEDINA COUNTY SANITARY ENGINEER
JEREMY SINKO, P.E.
791 WEST SMITH RD.
MEDINA, OHIO 44256
(330) 723-9585

PROJECT NUMBER

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SHEET NUMBER

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