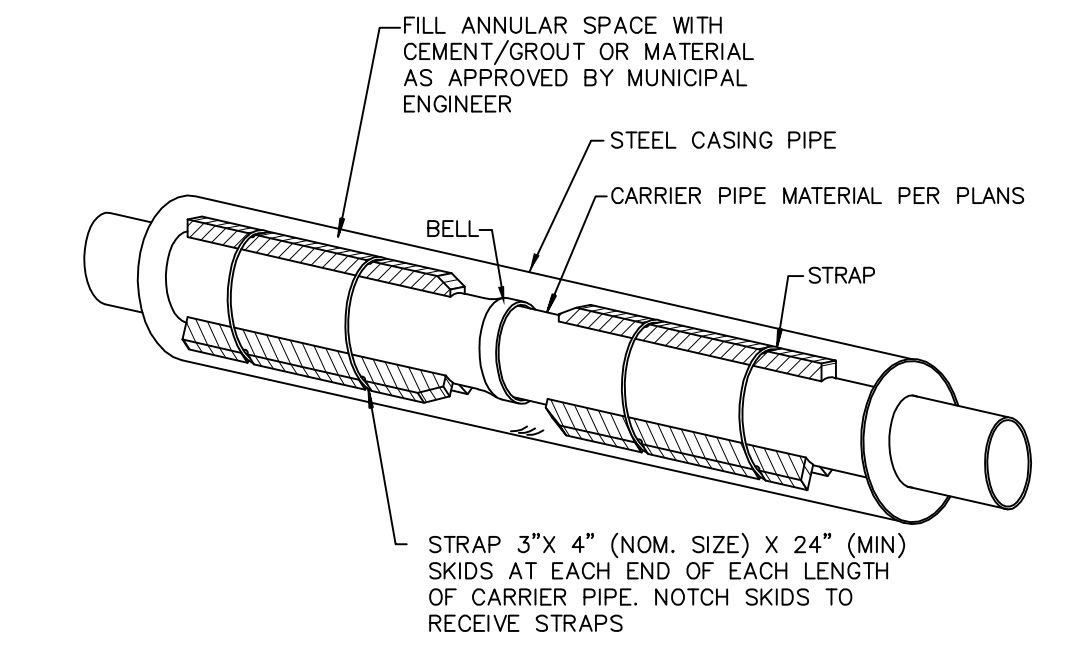
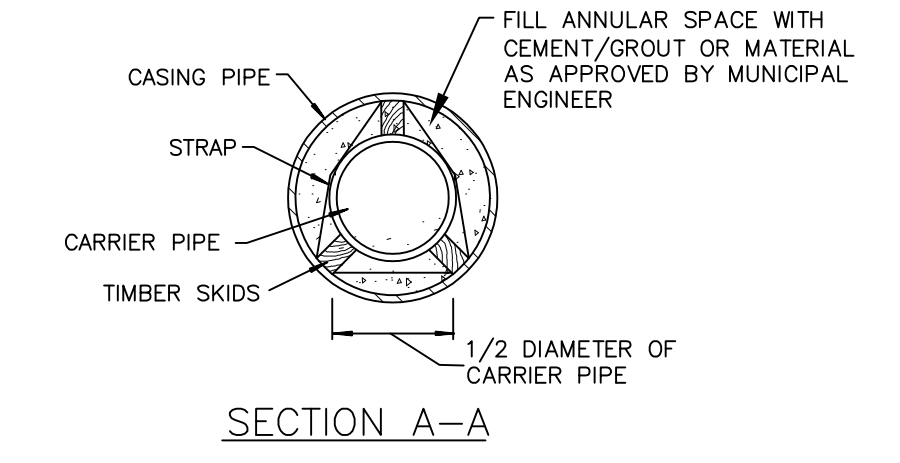




**SANITARY SEWER CONSTRUCTION NOTES**

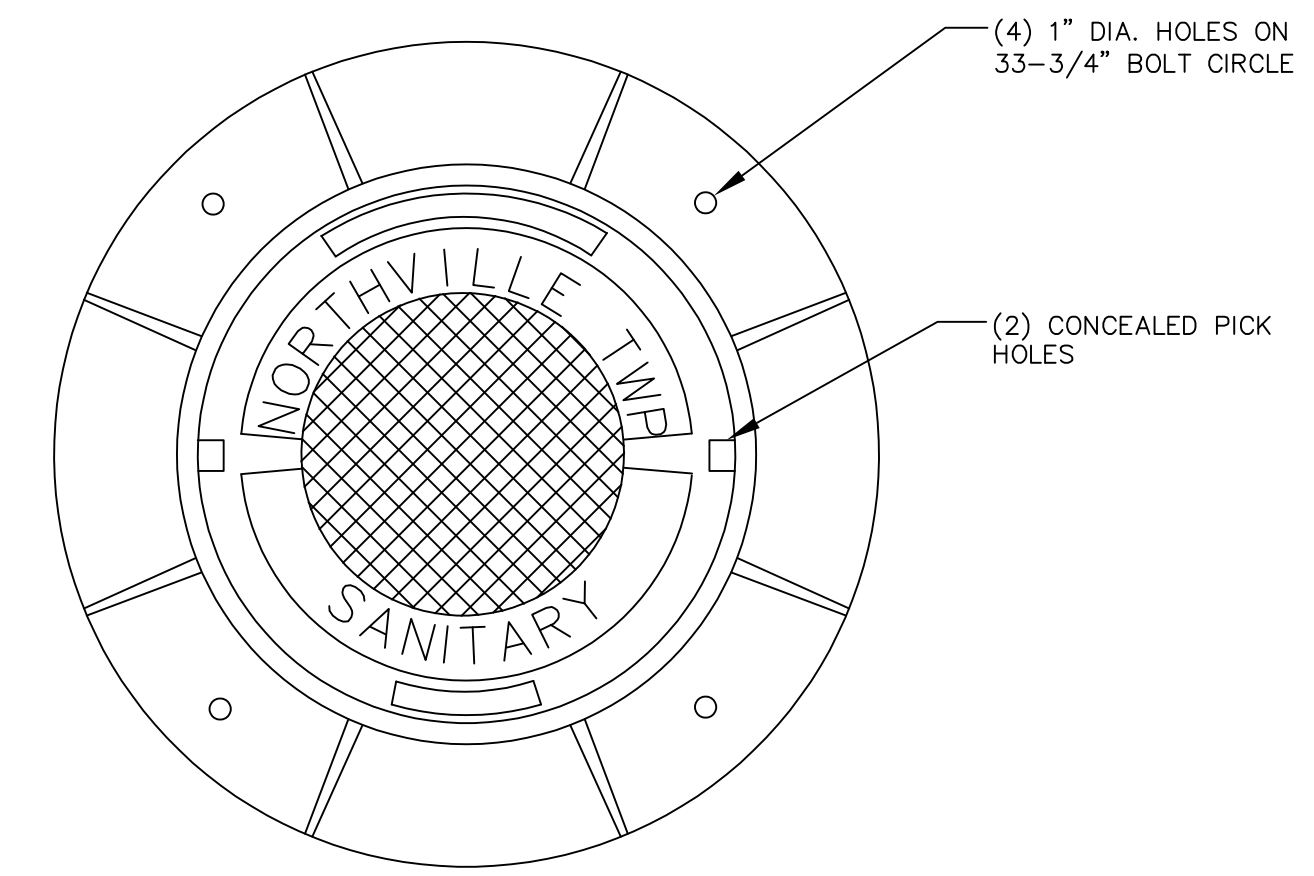
1. ALL WORKMANSHIP, MATERIALS, AND TESTING SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CHARTER TOWNSHIP OF NORTHVILLE AND THE WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES.
2. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED TWO WEEKS PRIOR TO THE EXPECTED START OF CONSTRUCTION WITH THE TOWNSHIP DEPARTMENT OF PUBLIC SERVICES AND THE TOWNSHIP ENGINEER. THE CONTRACTOR SHALL CONTACT THE TOWNSHIP DEPARTMENT OF PUBLIC SERVICES TO ARRANGE THE MEETING.
3. CONTRACTOR SHALL SUBMIT THREE (3) COPIES OF SHOP DRAWINGS TO THE TOWNSHIP ENGINEER FOR REVIEW OF COMPLIANCE WITH THE TOWNSHIP STANDARDS FOR ALL MATERIALS PROPOSED FOR CONSTRUCTION.
4. CONTRACTOR SHALL NOTIFY THE TOWNSHIP WATER AND SEWER DEPARTMENT AT (248) 348-5820 AND THE TOWNSHIP ENGINEER 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
5. CONTRACTOR SHALL CALL MISS DIG AT (800) 482-7171 PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO ANY EXISTING UTILITY DURING CONSTRUCTION.
6. CONTRACTOR SHALL SCHEDULE A FINAL INSPECTION OF THE COMPLETED SEWER SYSTEM WITH THE TOWNSHIP ENGINEER AND DEPARTMENT PERSONNEL. A PUNCH LIST WILL BE SUBMITTED TO THE CONTRACTOR IN LETTER FORM, ENCLOSED WITH A LIST OF ITEMS NECESSARY FOR THE FINAL ACCEPTANCE OF THE PROJECT. ITEMS NECESSARY TO RECEIVE ACCEPTANCE INCLUDE (1) BILL OF SALE CONVEYING THE SEWER AND ALL APPURTENANCES TO THE TOWNSHIP, (2) CONSTRUCTION RECORD DRAWING, (3) A ONE YEAR MAINTENANCE BOND, (4) A FINAL WAIVER OF LIEN FROM ALL CONTRACTORS AND SUBCONTRACTORS THAT WORKED ON THE PROJECT, AND (5) CONSTRUCTION RECORD EASEMENTS (IF APPLICABLE) SIGNED ON THE CURRENT TOWNSHIP EASEMENT FORM.
7. NO CONNECTION RECEIVING STORM WATER, SURFACE WATER OR GROUNDWATER SHALL BE MADE TO SANITARY SEWER.
8. INFILTRATION FOR ANY SECTION OF SEWER BETWEEN MANHOLES SHALL NOT EXCEED 100 GALS./INCH DIA./MILE/24 HOURS.
9. ALL ELEVATIONS ARE BASED ON WAYNE COUNTY DATUM (USC&GS).
10. NO FOOTING DRAINS SHALL BE CONNECTED TO THE BUILDING SEWER.
11. DIFFERENTIAL OF EXCAVATION AROUND EXISTING MANHOLES SHALL NOT EXCEED SIX FEET.
12. CONTRACTOR SHALL NOTIFY WAYNE COUNTY DEPARTMENT OF PUBLIC SERVICES, ENGINEERING DIVISION, PERMIT OFFICE, 48 HOURS PRIOR TO START OF CONSTRUCTION. [(734) 595-6504]



**CARRIER PIPE WITH CASING PIPE**

**NOTE:**

1. When tunneling of the utility is required it shall be in accordance with the current Wayne County Department of Public Services Requirements for Construction within Road Right of Way or Parks under Jurisdiction of the Board (Revised June 1, 1980).
2. The tunneling shall extend a minimum of 10 feet outside the edges of the road pavement.



EAST JORDAN IRON WORKS 1040-Z FRAME  
 EAST JORDAN IRON WORKS 1040 AGS COVER  
 EAST JORDAN IRON WORKS 1040-A WT (AS REQUIRED)

**MANHOLE COVER**



REV.	NO.	DATE	NOTES
6	11/13		NOTES
5	01/13		MANHOLE COVER
4	08/07		UPDATED PER TOWNSHIP
3	1/06		REVISED PER WAYNE COUNTY COMMENTS
2	9/02		ADDED SANIT. SEWER CONSTR. NOTES 8-13
1	4/01		REVISED PIPE STANDARDS AND ADDED BUILDING LEADS
	11/96		ORIGINAL ISSUE.

DRAWN BY: J.L.P. CHECKED BY: T.M.M.



CHARTER TOWNSHIP OF NORTHVILLE

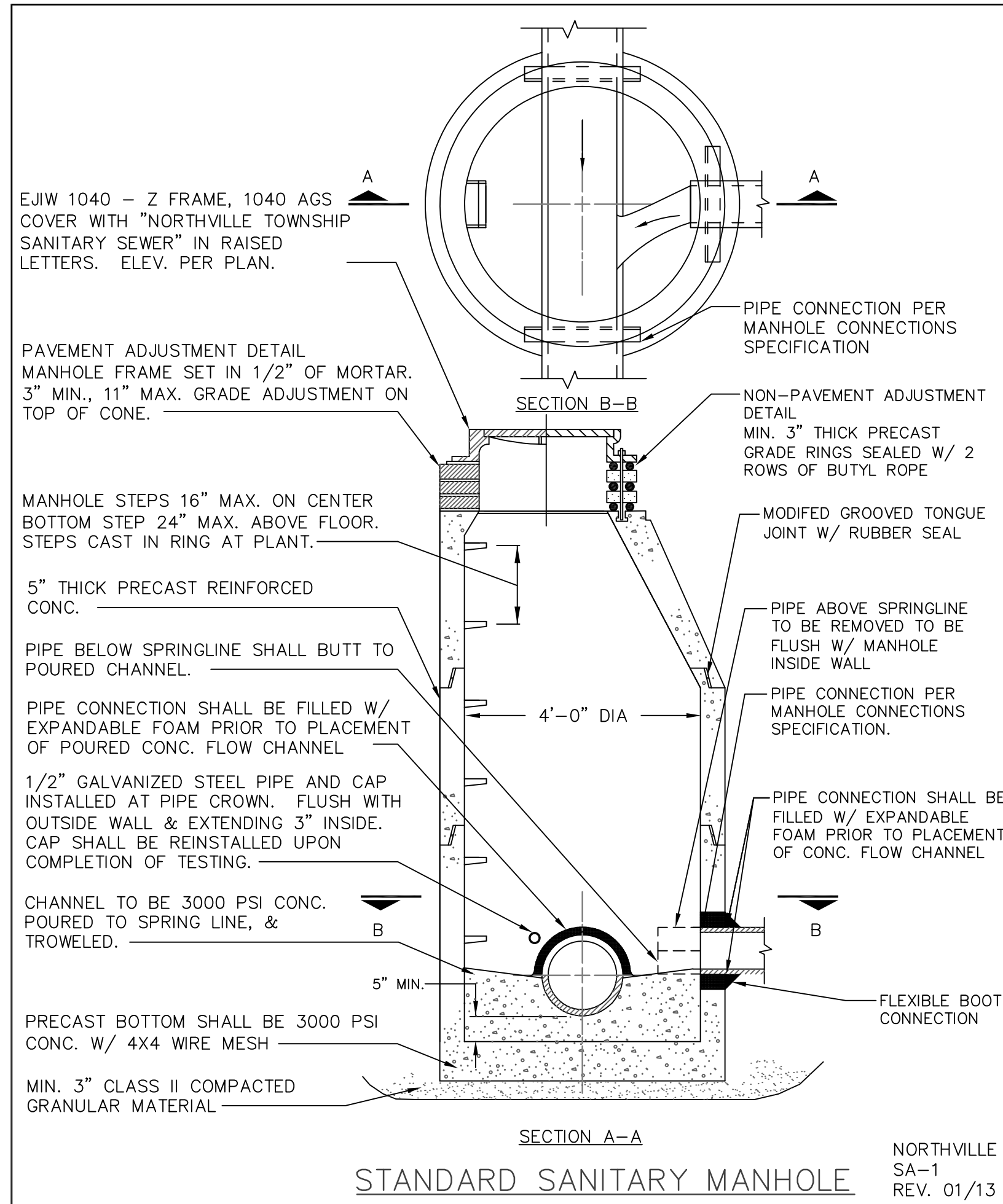
**SANITARY SEWER NOTES/DETAILS**

**Stantec**  
 SCALE: NONE  
 STANTEC  
 3754 RANCHERO DRIVE  
 ANN ARBOR, MI 48108  
 (734) 761-1010  
 stantec.com  
 FILE: S-2.DWG

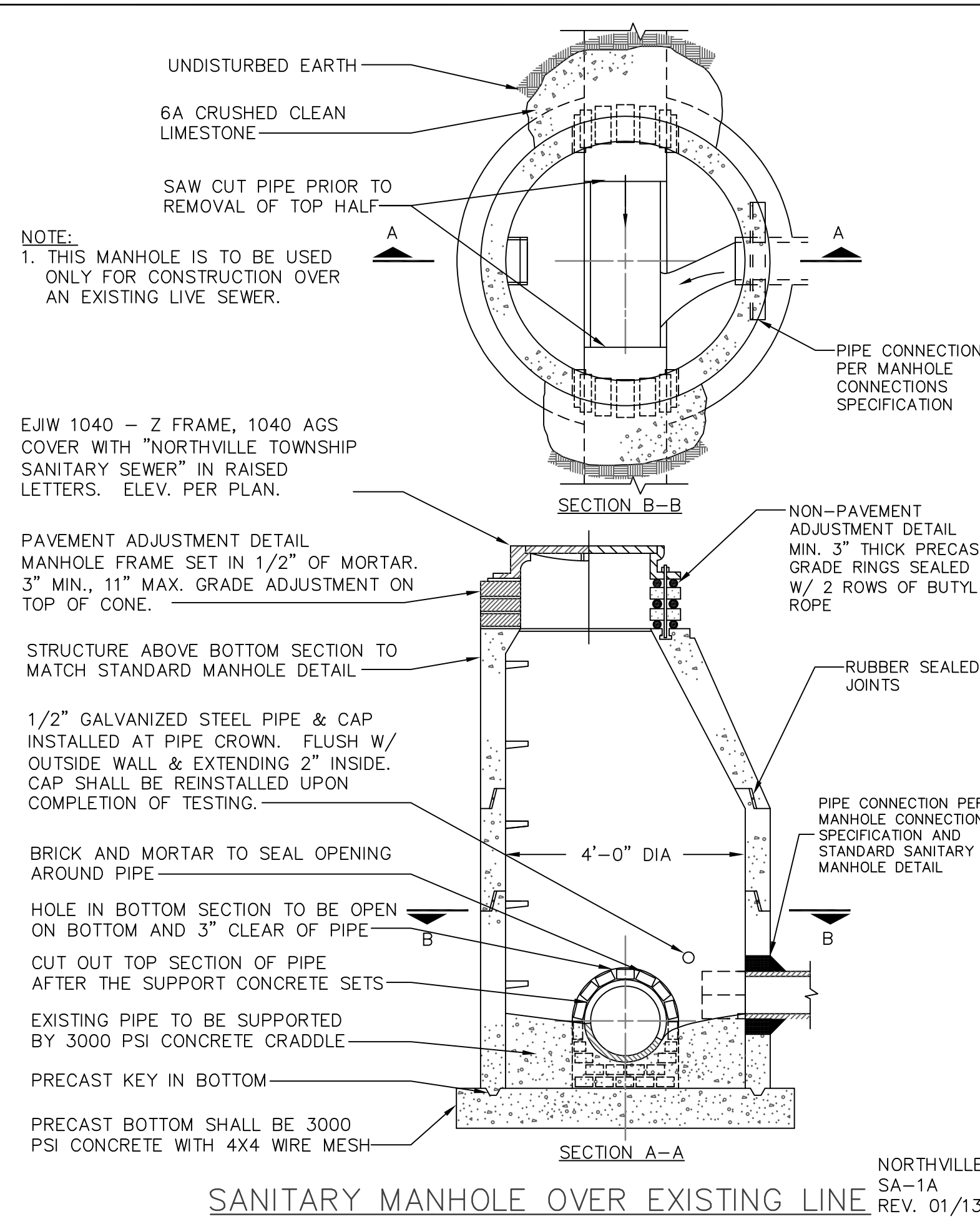
S-2

REVISION  
6

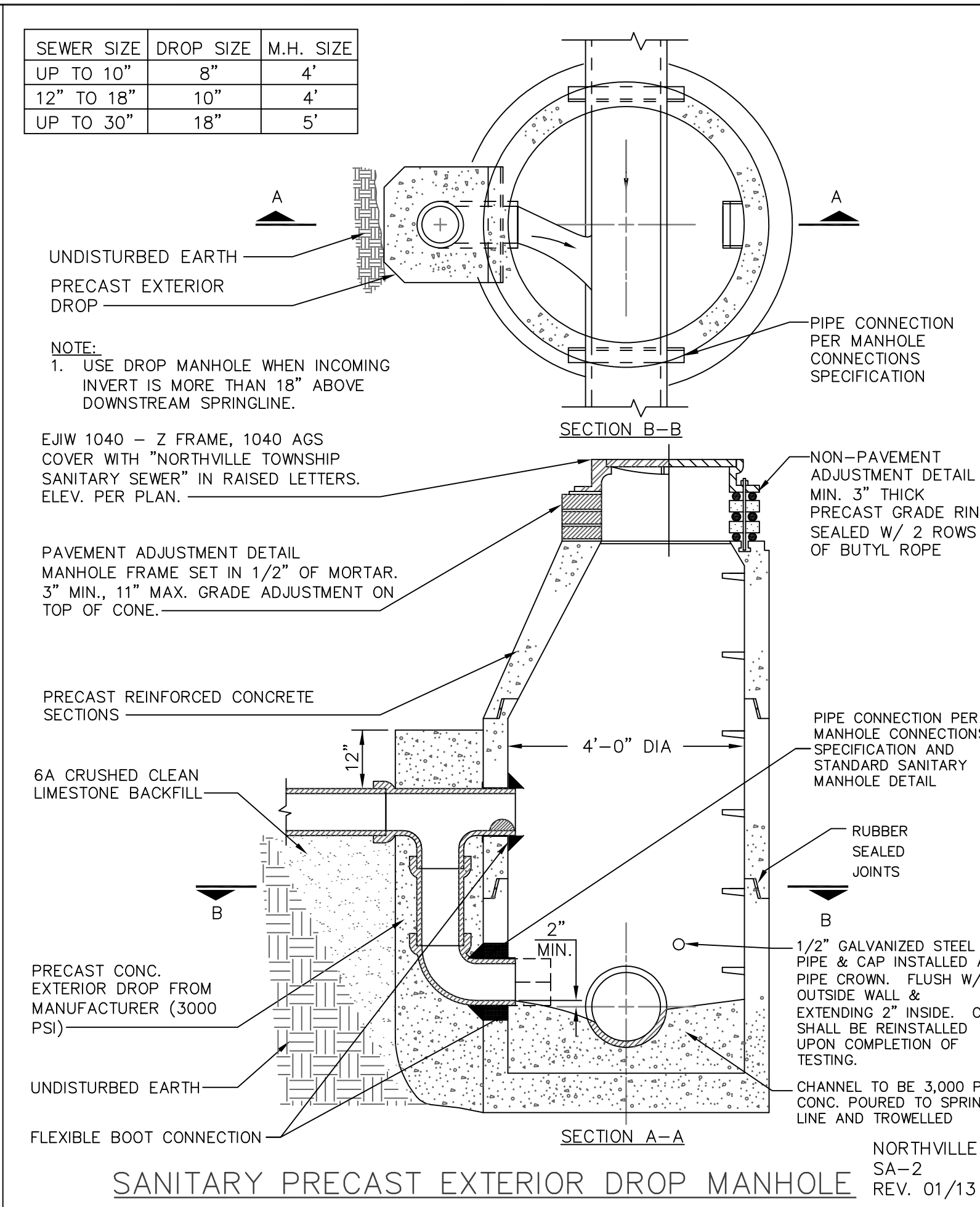




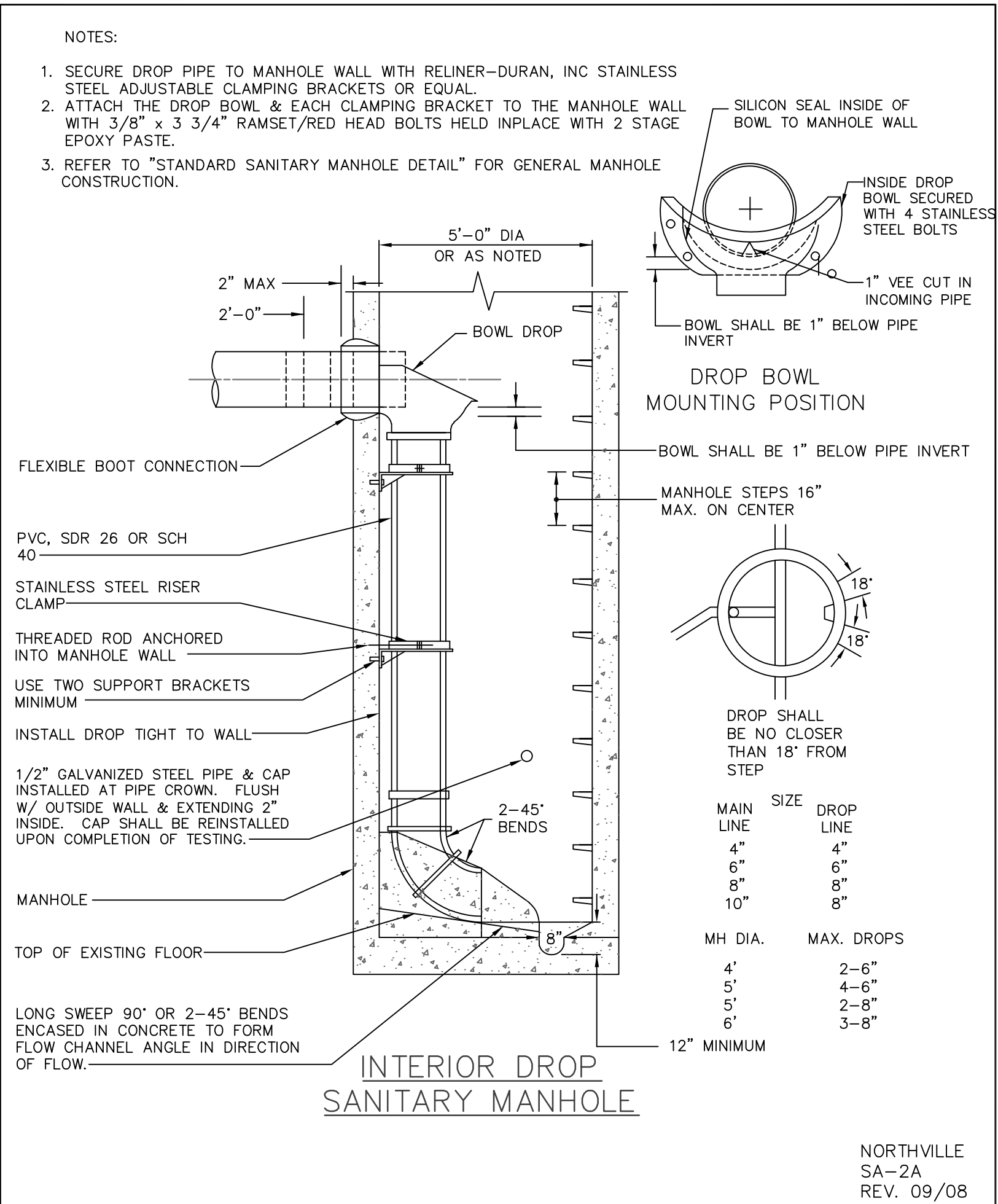
STANDARD SANITARY MANHOLE



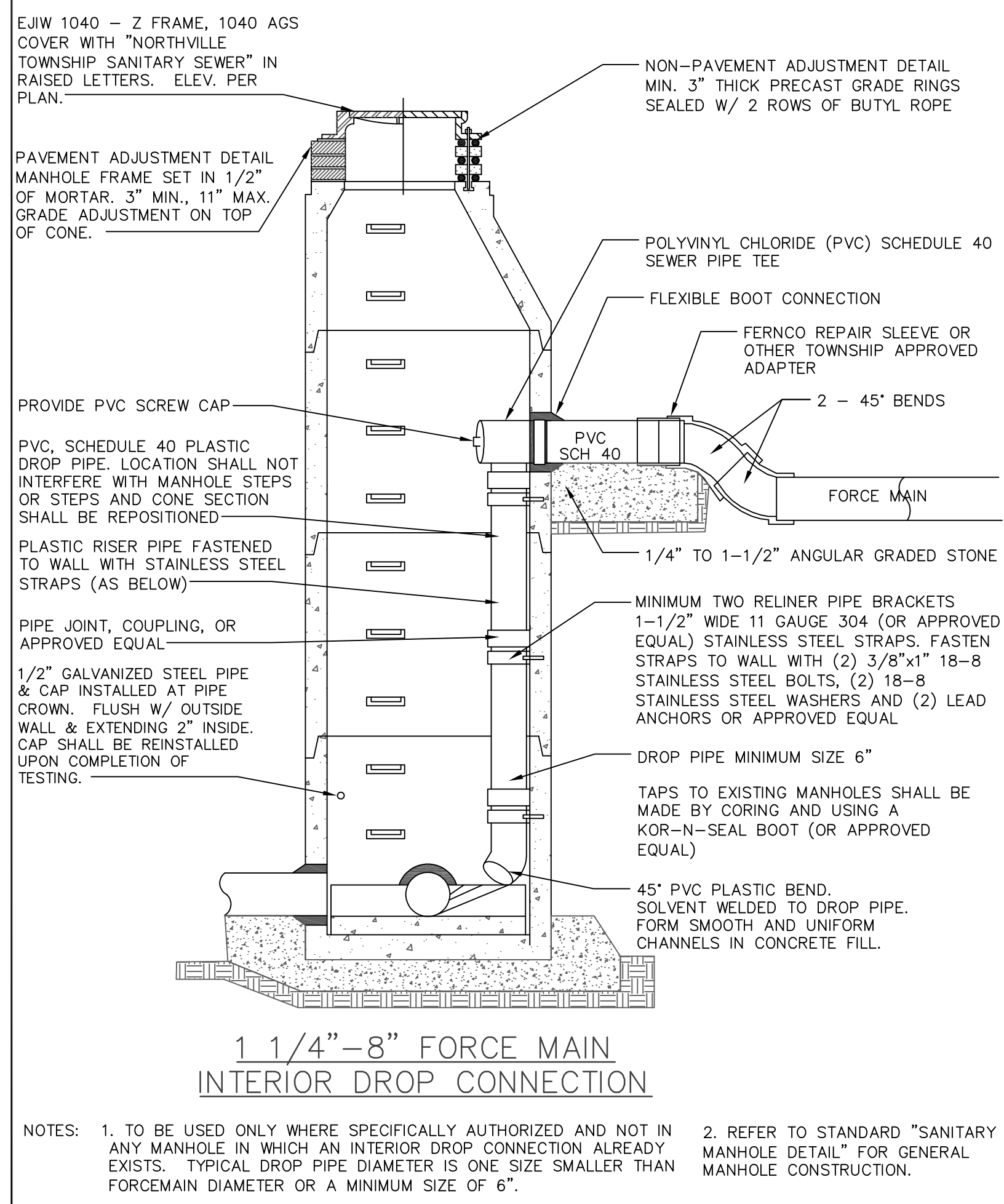
SANITARY MANHOLE OVER EXISTING LINE



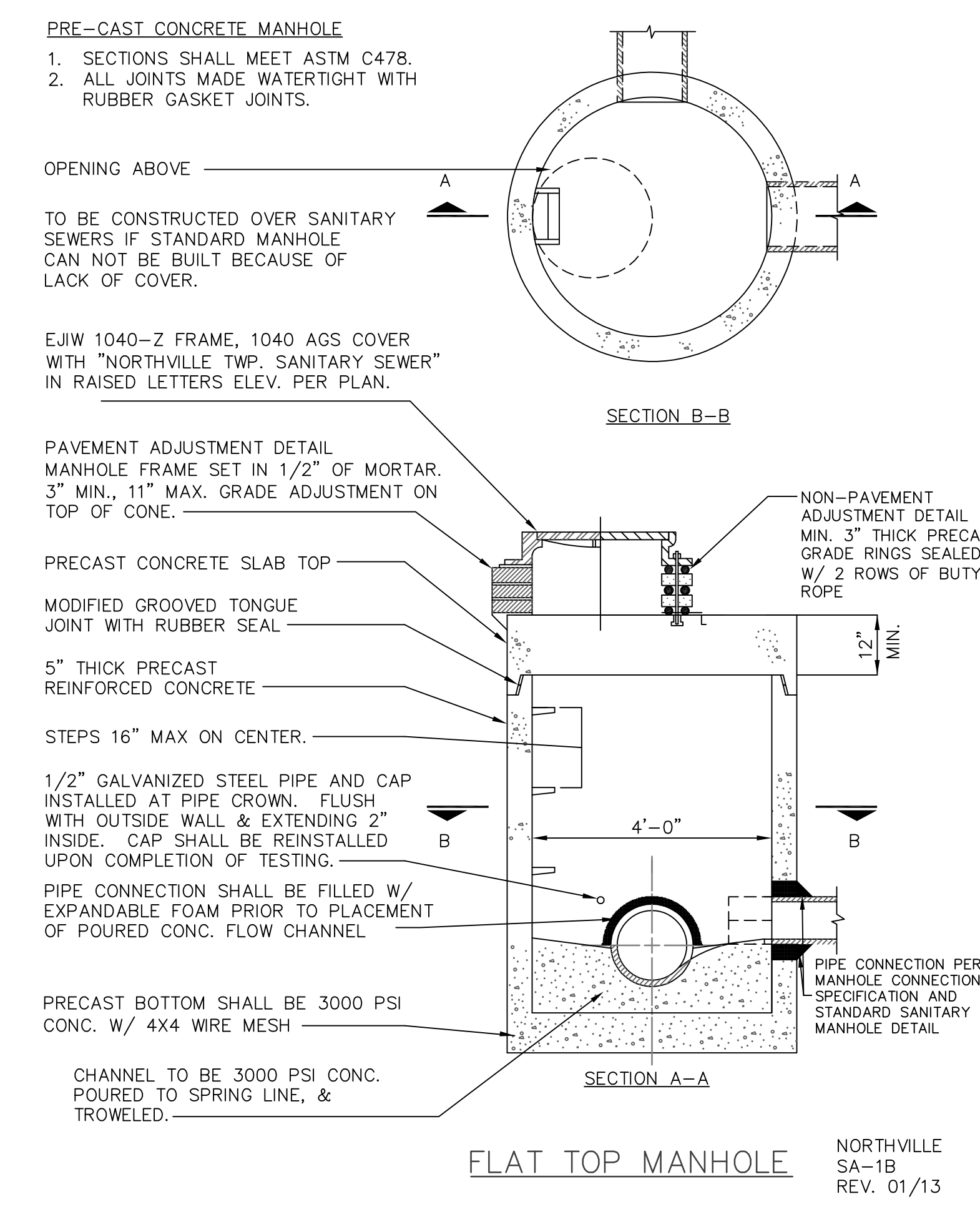
SANITARY PRECAST EXTERIOR DROP MANHOLE



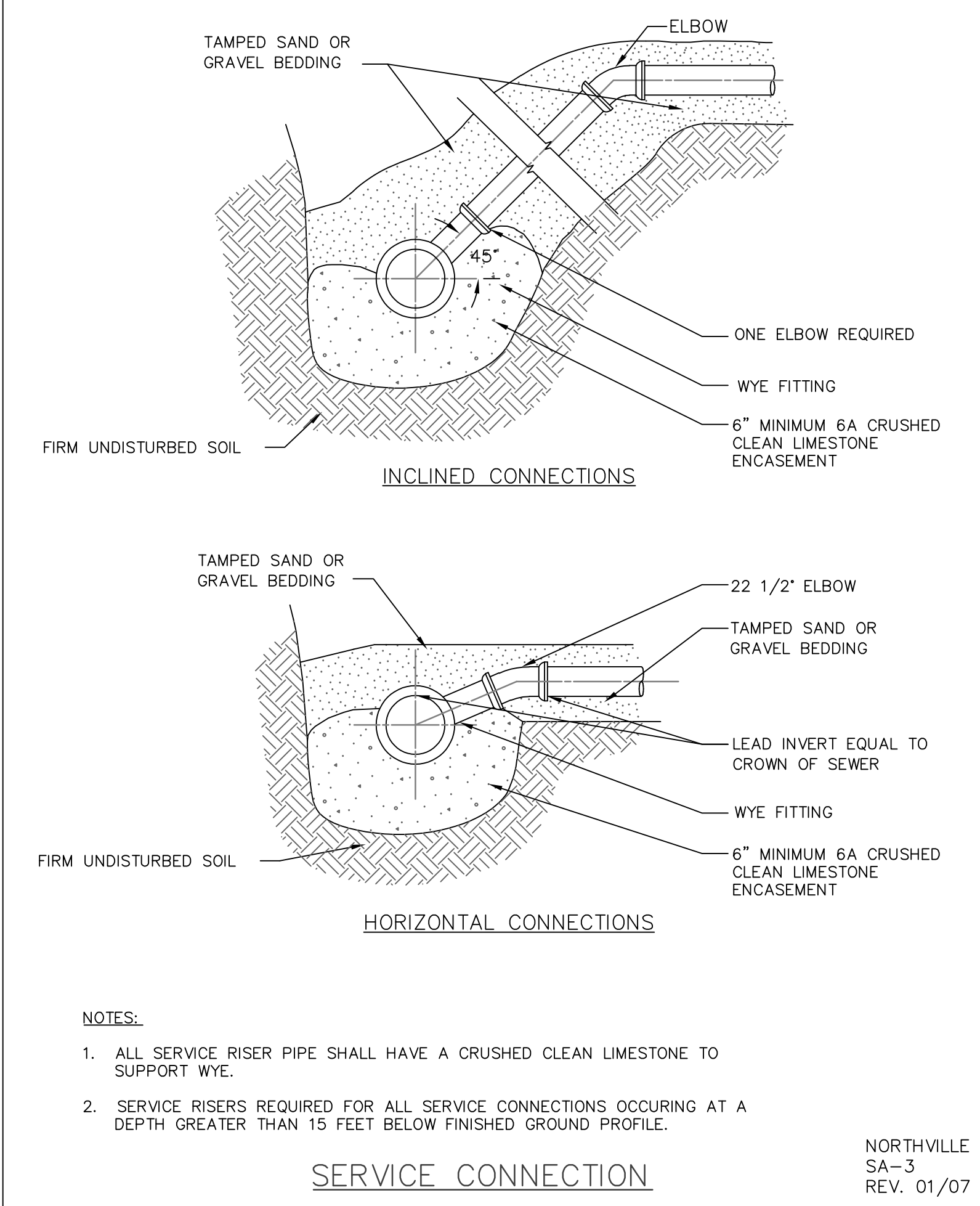
INTERIOR DROP SANITARY MANHOLE



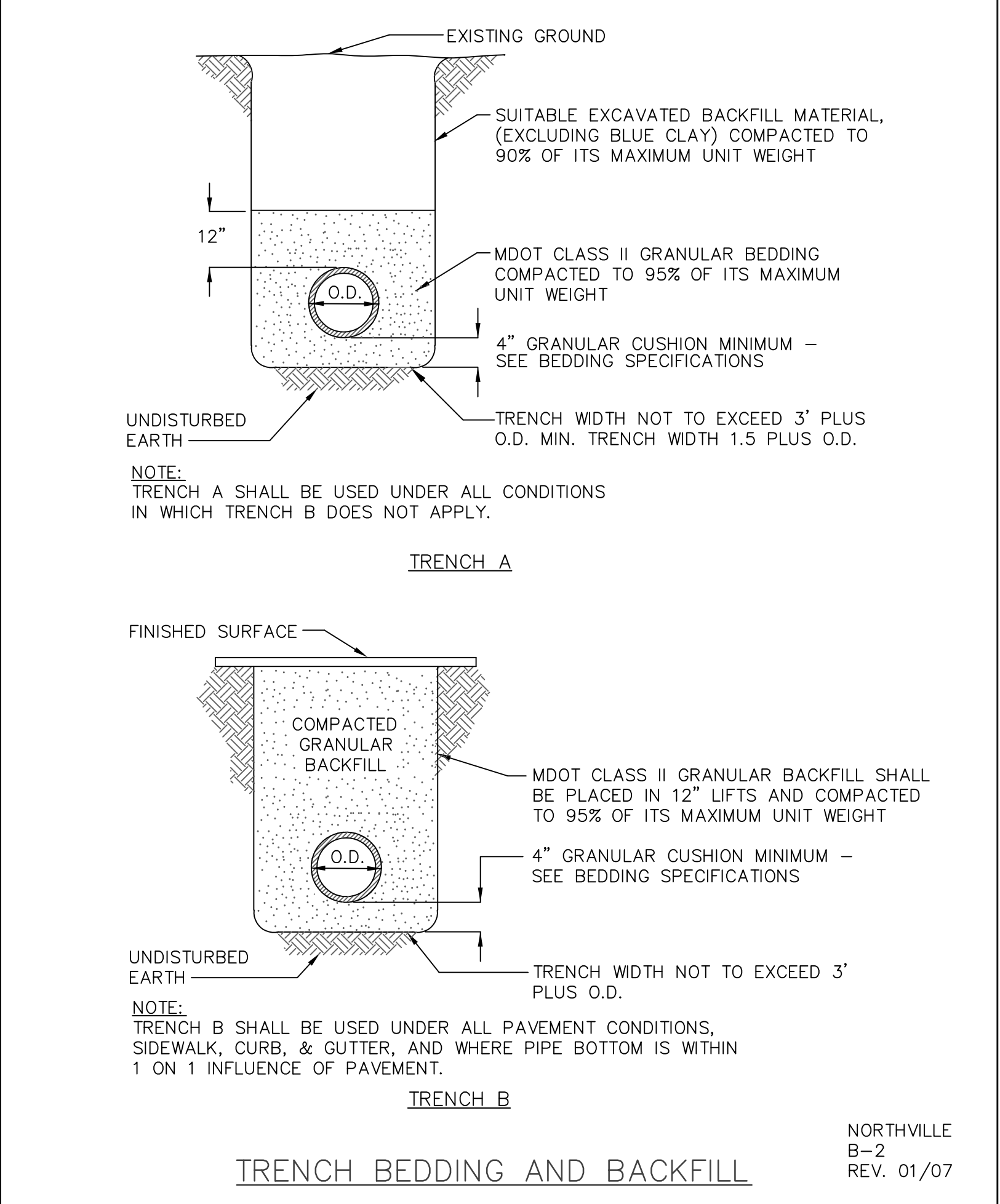
1 1/4"-8" FORCE MAIN INTERIOR DROP CONNECTION



FLAT TOP MANHOLE



SERVICE CONNECTION



TRENCH BEDDING AND BACKFILL

3 WORKING DAYS BEFORE YOU DIG CALL MISS DIG 1-800-482-7171 FOR FREE LOCATION OF PUBLIC UTILITY LINES

REV.	DATE	DESCRIPTION
REV. 3	01/13	MANHOLE FRAME & COVER
REV. 2	08/07	UPDATED PER TOWNSHIP
REV. 1	3/97	MODIFIED SERVICE CONNECTION
	11/96	ORIGINAL ISSUE.

DRAWN BY: K.C.M., J.L.P. CHECKED BY: D.P.W., T.M.M.



CHARTER TOWNSHIP OF NORTHVILLE

SANITARY SEWER DETAILS

STANTEC  
3754 RANCHERO DRIVE  
ANN ARBOR, MI 48108  
(734) 761-1010

stantec.com

FILE: S-3.DWG

REVISION

S-3

3