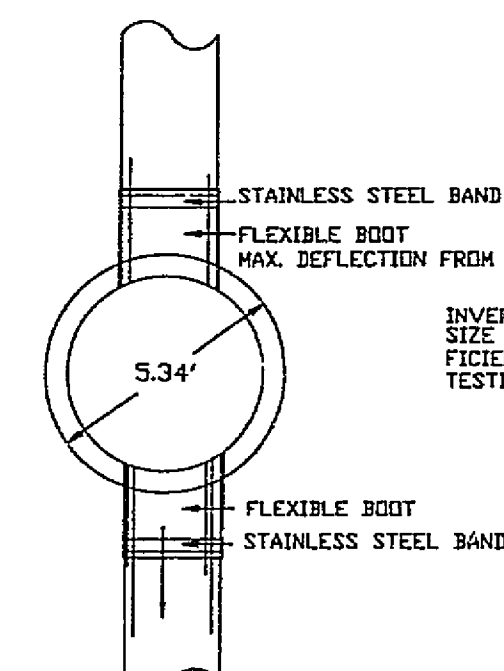
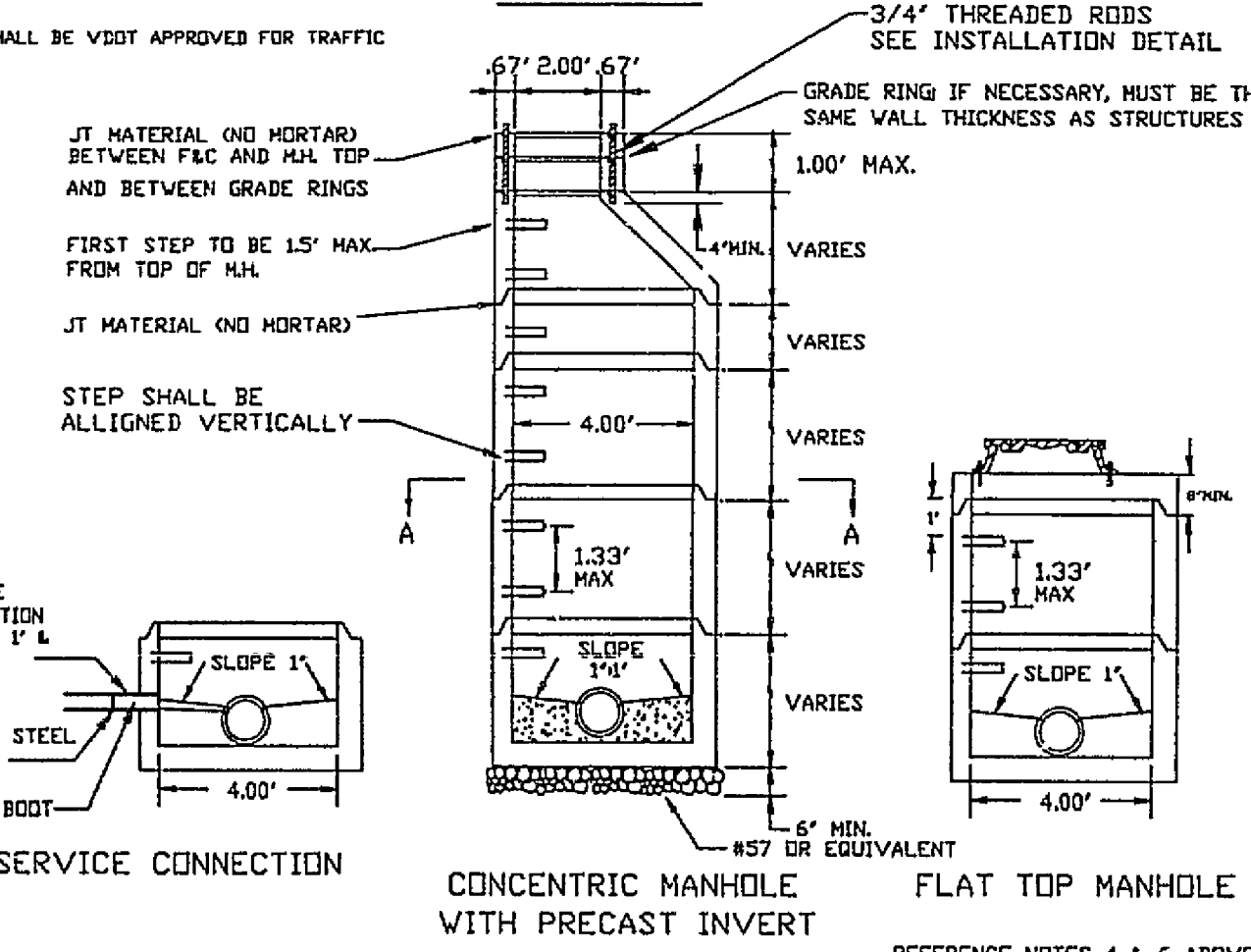


NOTES:

1. ALL MANHOLE FRAMES AND COVERS SHALL BE DEVEY BROTHERS, INC. MH-RCR-3000V IN NON-PAVED AREAS. MH-RCR-3000V IN PAVED AREAS. MH-RCR-3000 IN AREAS NOT SUBJECT TO FLOODING OR APPROVED EQUAL.
2. THE FIRST STEP IN THE ECCENTRIC MANHOLE SHALL BE 1 FOOT FROM THE TOP OF THE CONE SECTION AND A MAXIMUM OF 4.5 INCHES VISE FROM THE INSIDE FACE OF THE CONE SECTION.
3. THE FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2 FOOT OPENING OF THE MANHOLE STRUCTURE AND BOLTED IN PLACE.
4. ALL SAMPLING MANHOLES SHALL BE CONSTRUCTED AS PER MANHOLE DETAILS. WHEN NECESSARY, THE FLAT TOP MANHOLE MAY BE SUBSTITUTED WITH ECCENTRIC OPENING AT STEPS.
5. AN ASPHALT COATING SHALL BE REQUIRED ON THE OUTSIDE OF ALL MANHOLES.
6. THE FRAME MUST BE IN PLACE PRIOR TO VACUUM TESTING.
7. FLAT TOP SHALL BE VOID APPROVED FOR TRAFFIC BEARING.



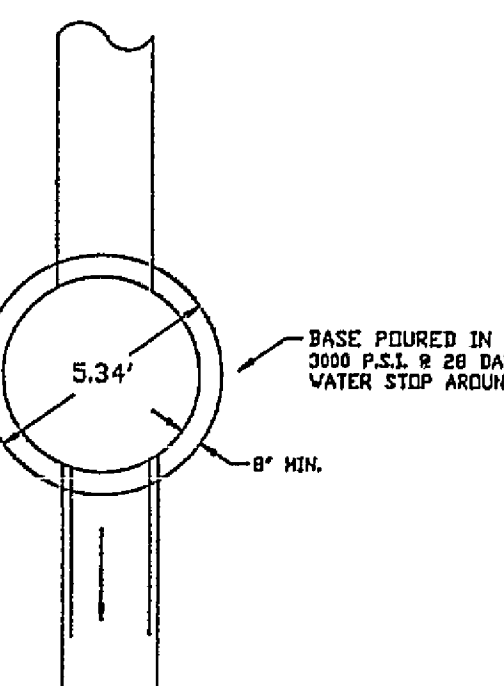
SECTION A-A



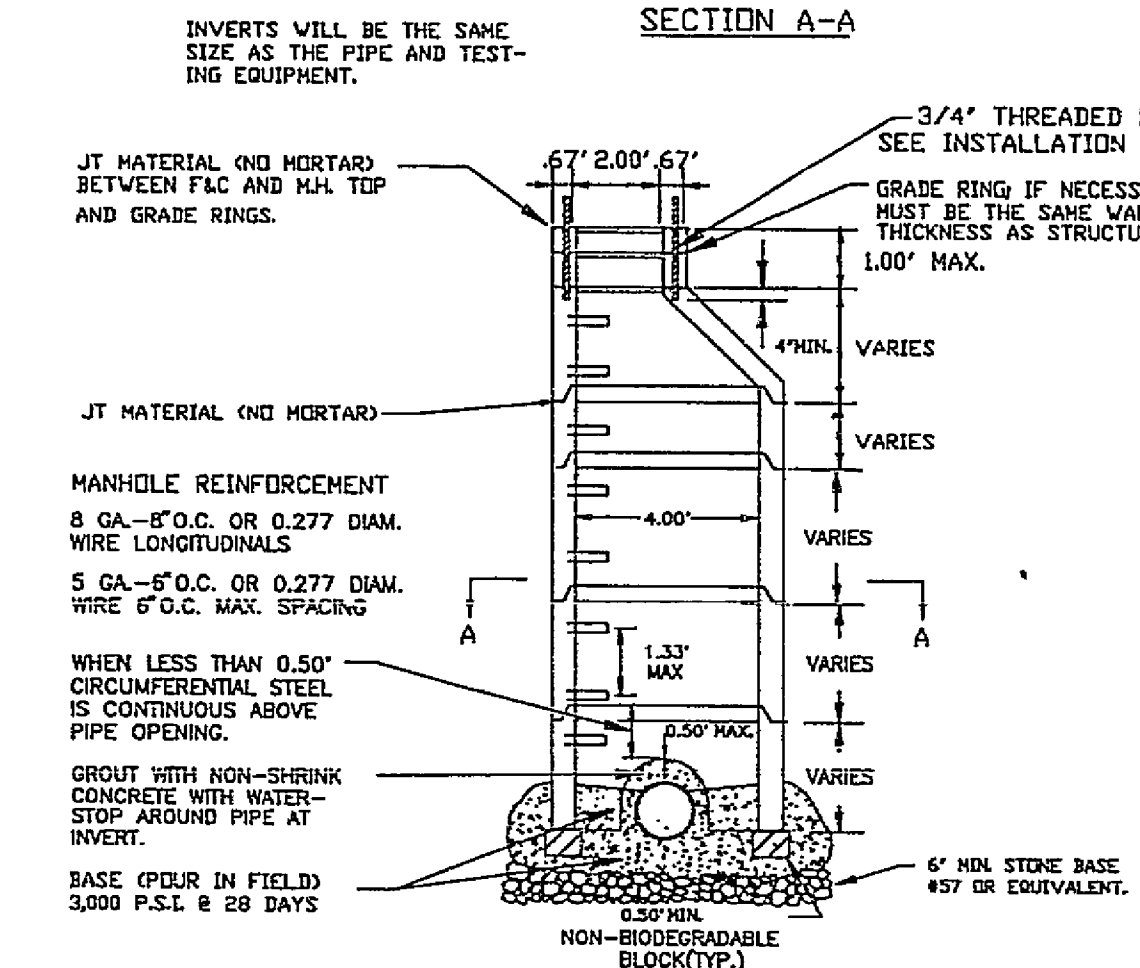
4' STANDARD MANHOLE FOR PIPE 15" OR SMALLER

NOTES:

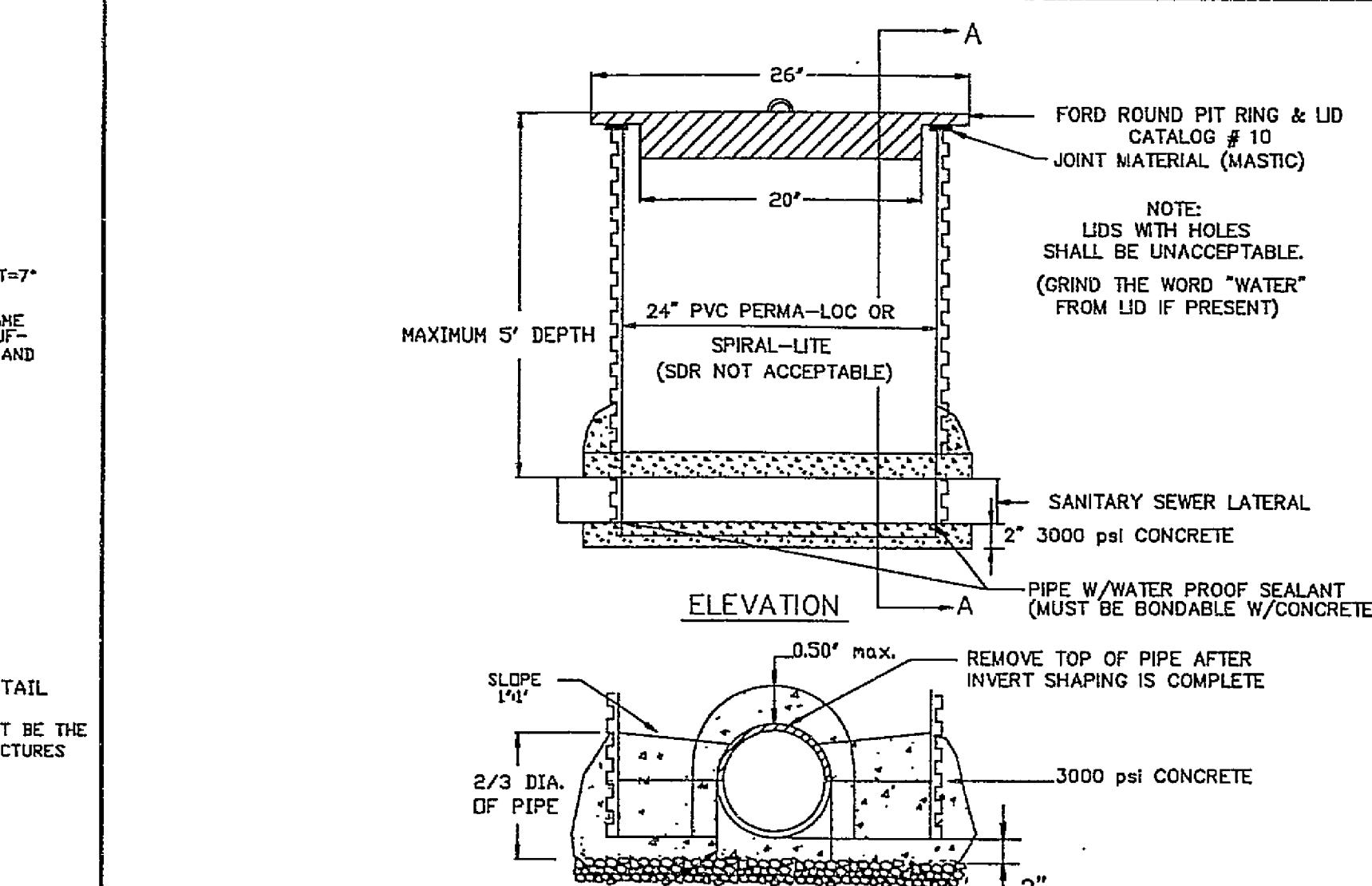
1. ALL MANHOLE FRAMES AND COVERS SHALL BE DEVEY BROTHERS, INC. MH-RCR-3000V IN NON-PAVED AREAS. MH-RCR-3000V IN PAVED AREAS. MH-RCR-3000 IN AREAS NOT SUBJECT TO FLOODING OR APPROVED EQUAL.
2. THE FIRST STEP IN THE ECCENTRIC MANHOLE SHALL BE 1 FOOT FROM THE TOP OF THE CONE SECTION AND A MAXIMUM OF 4.5 INCHES VISE FROM THE INSIDE FACE OF THE CONE SECTION.
3. THE ENTIRE MANHOLE STRUCTURE INCLUDING FRAME AND COVER SHALL BE INSTALLED BEFORE CUTTING THE TOP OF THE SEWER PIPE IN THE MANHOLE. ROANOKE COUNTY PERSONNEL TO CUT EXISTING PIPE.
4. THE FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2 FOOT OPENING OF THE MANHOLE STRUCTURE AND BOLTED IN PLACE.
5. FLAT TOP TO BE VOID APPROVED FOR TRAFFIC BEARING.
6. ASPHALT COATING SHALL BE REQUIRED ON OUTSIDE OF ALL MANHOLES.



SECTION A-A

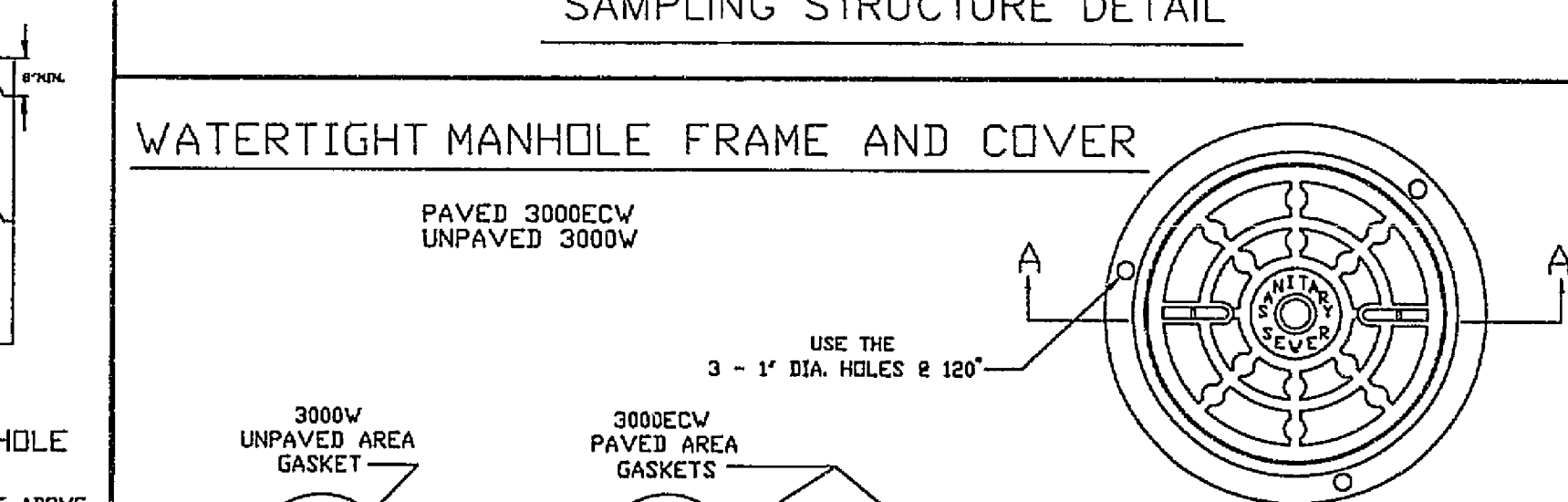


STRADDLE MANHOLE FOR PIPE 15" OR SMALLER

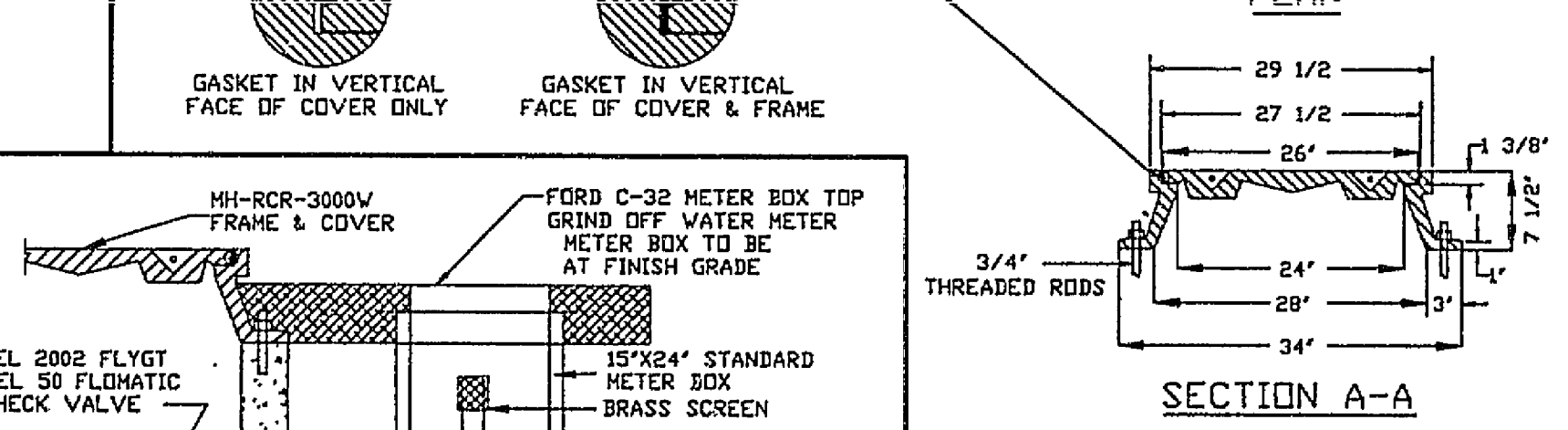


SECTION A-A

SAMPLING STRUCTURE DETAIL

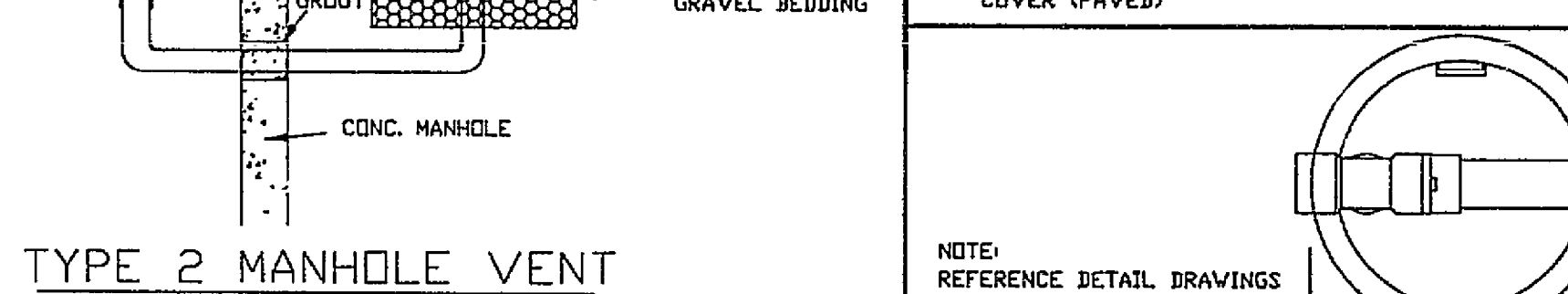


WATERTIGHT MANHOLE FRAME AND COVER



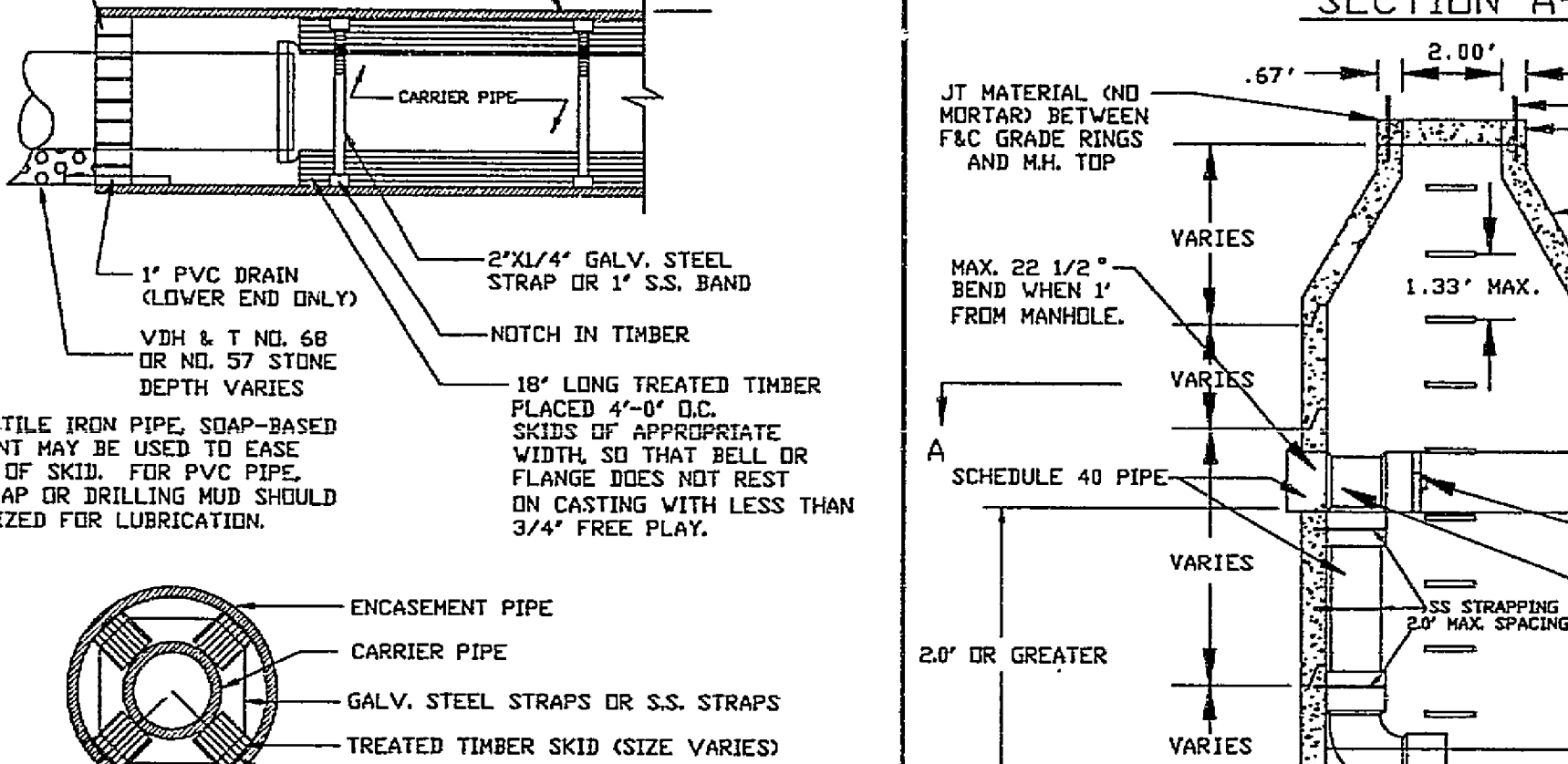
SECTION A-A

TYPE 2 MANHOLE VENT



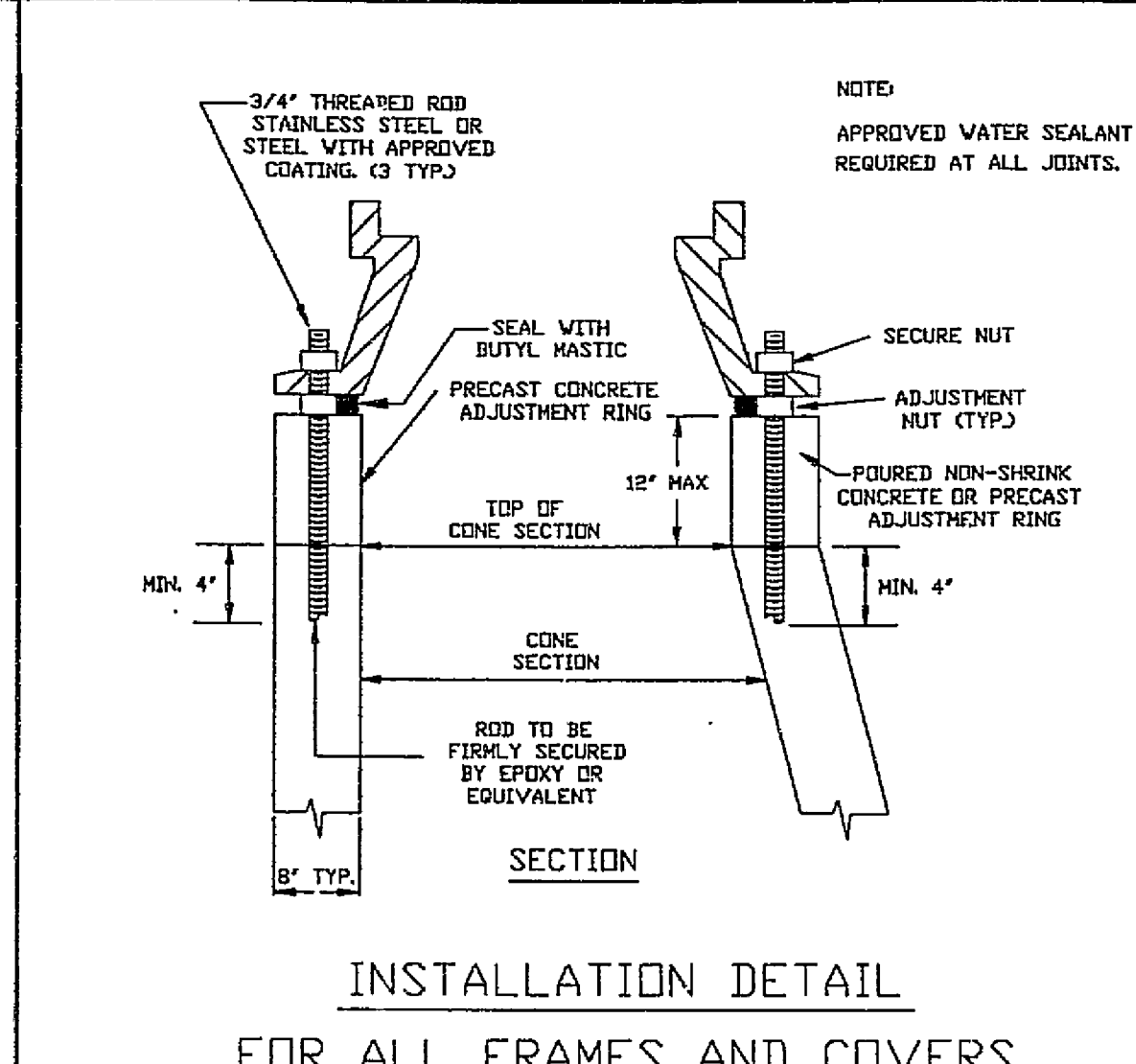
SECTION A-A

PIPE SUPPORT IN CASING PIPE



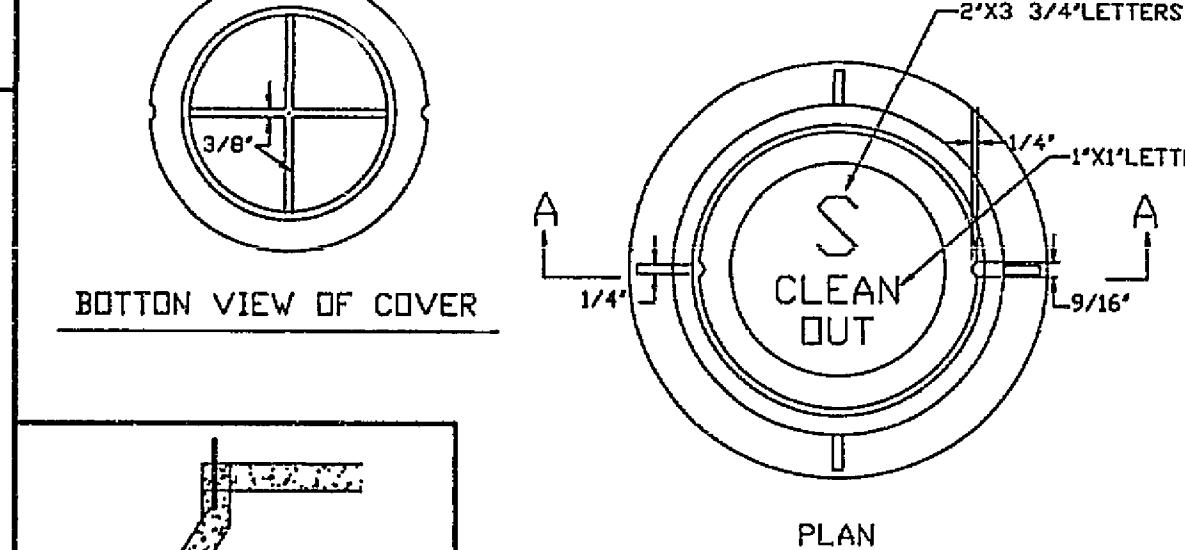
SECTION A-A

MAINLINE DROP MANHOLE (FOR USE WITH PVC PIPE)



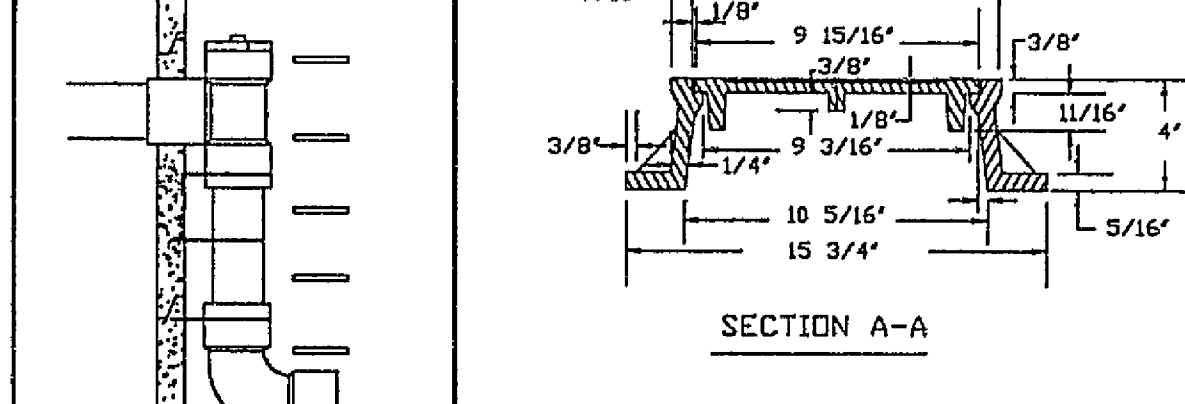
SECTION

INSTALLATION DETAIL FOR ALL FRAMES AND COVERS



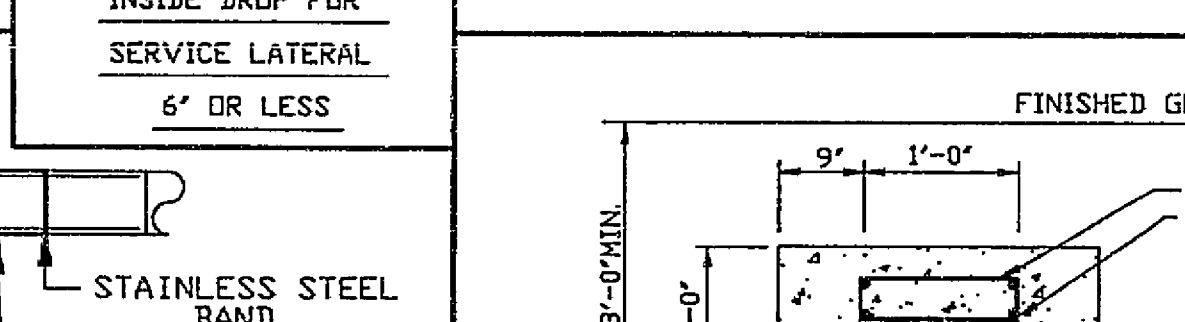
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INSTALLATION DETAIL FOR ALL FRAMES AND COVERS



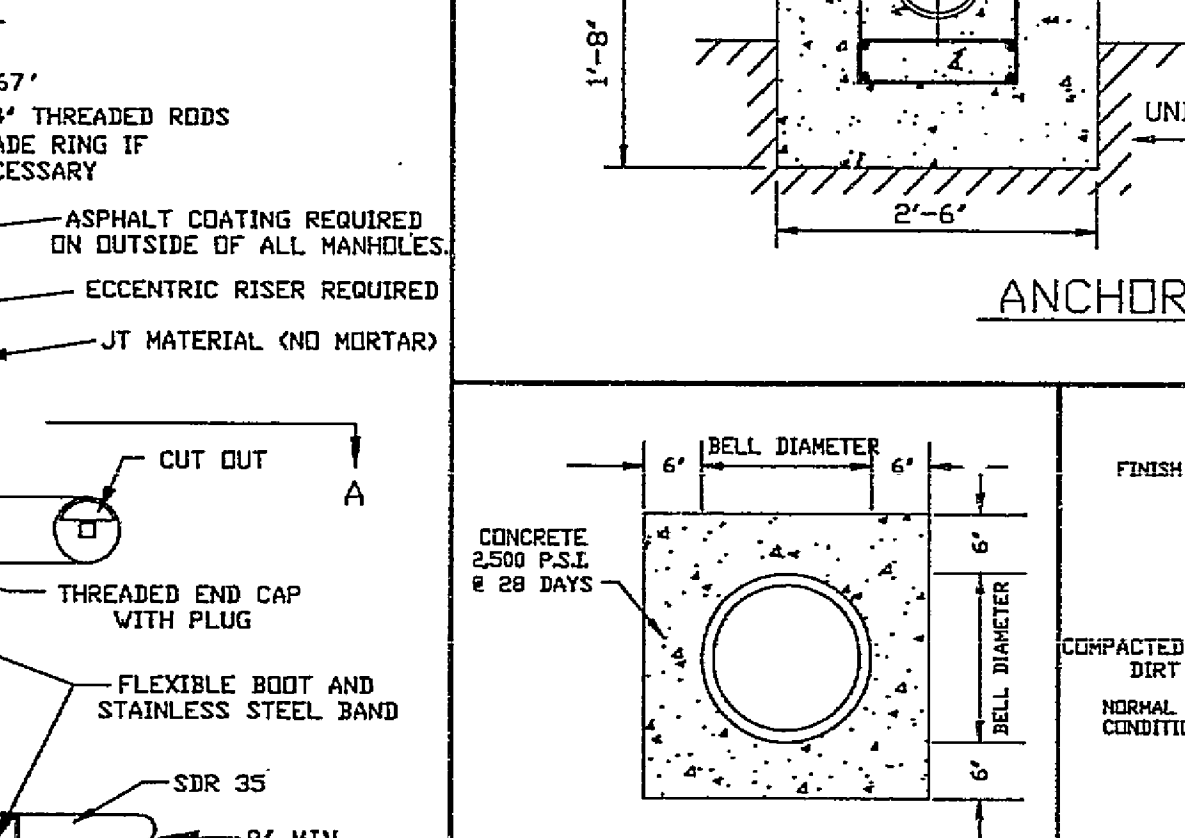
SECTION A-A

CLEANOUT ACCESS BOX



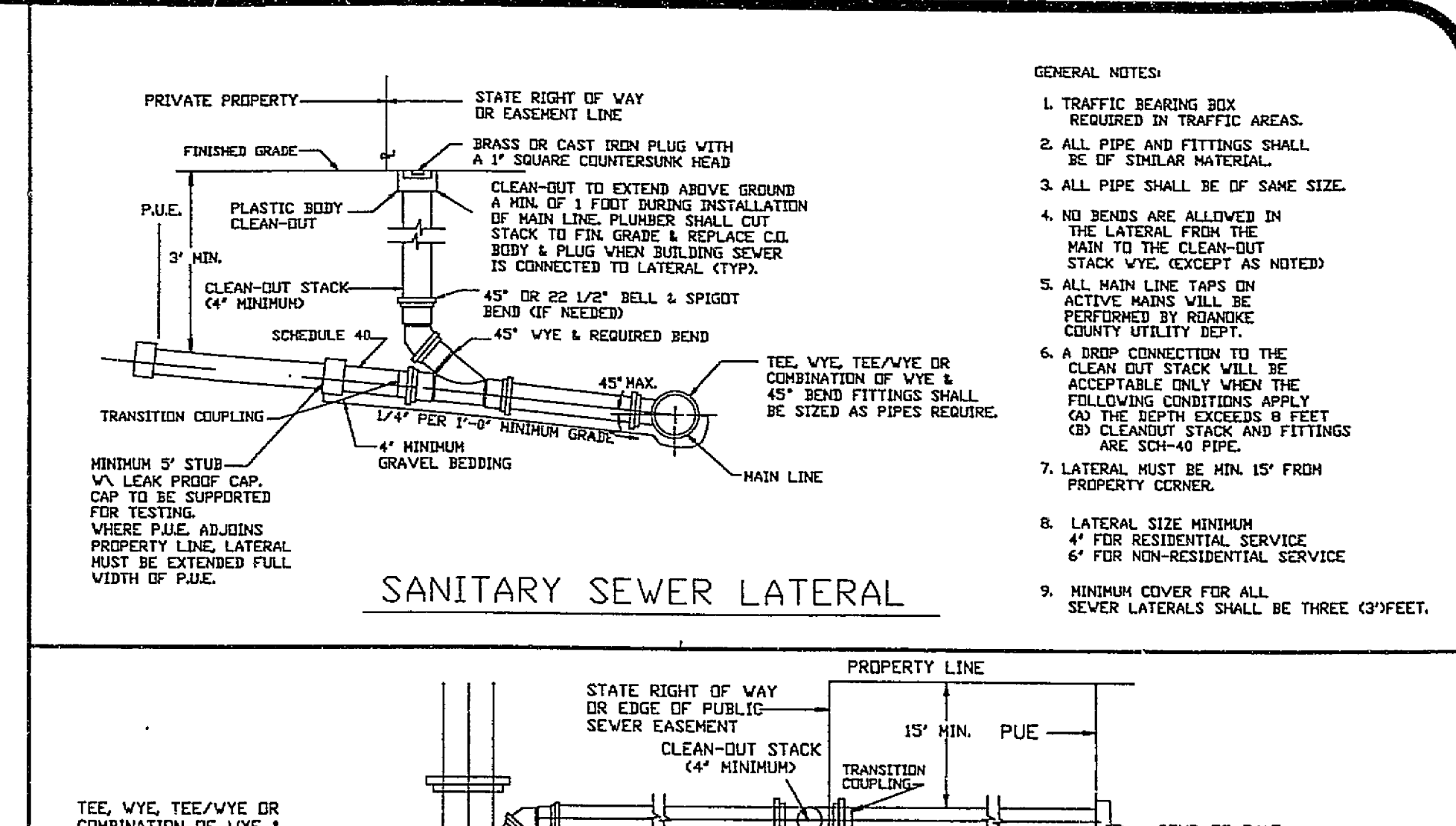
SECTION A-A

CLEANOUT ACCESS BOX



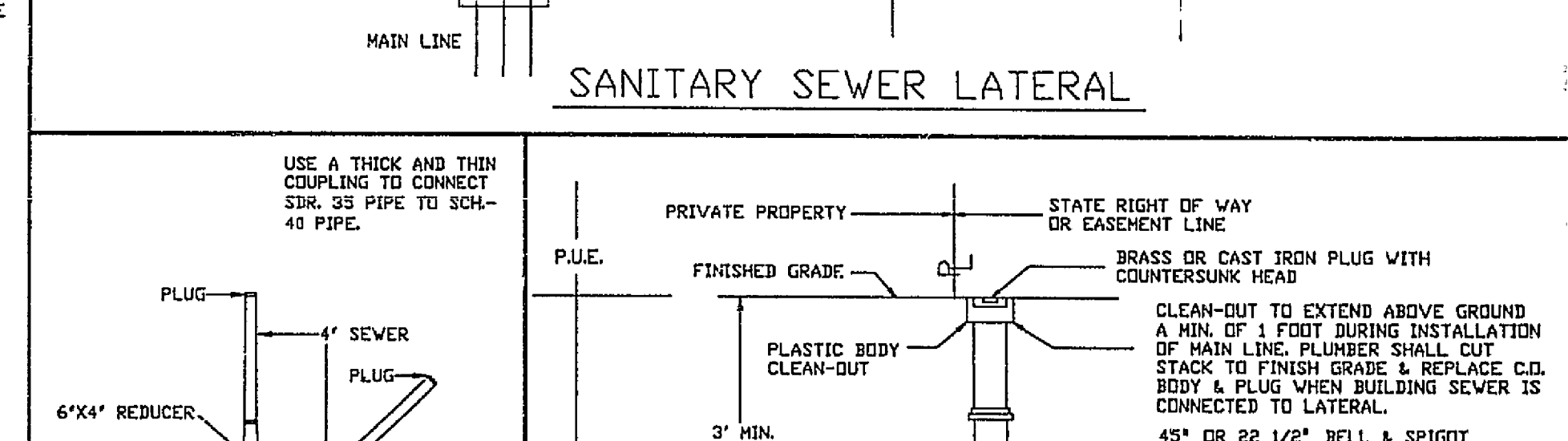
SECTION A-A

CONCRETE ENCASED PIPE



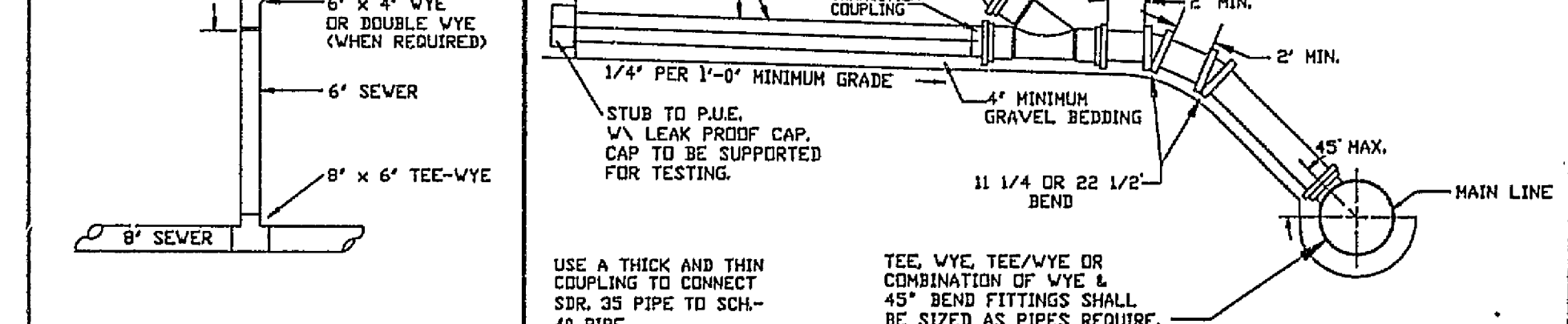
SECTION

SANITARY SEWER LATERAL



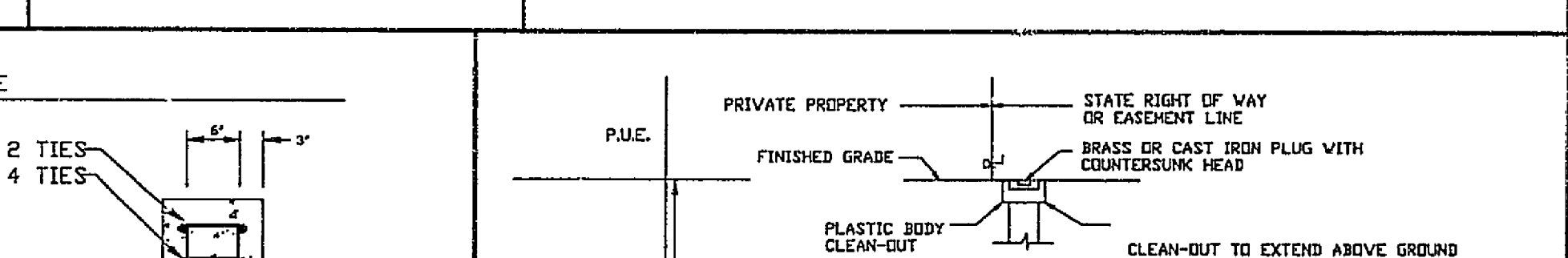
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SANITARY SEWER LATERAL



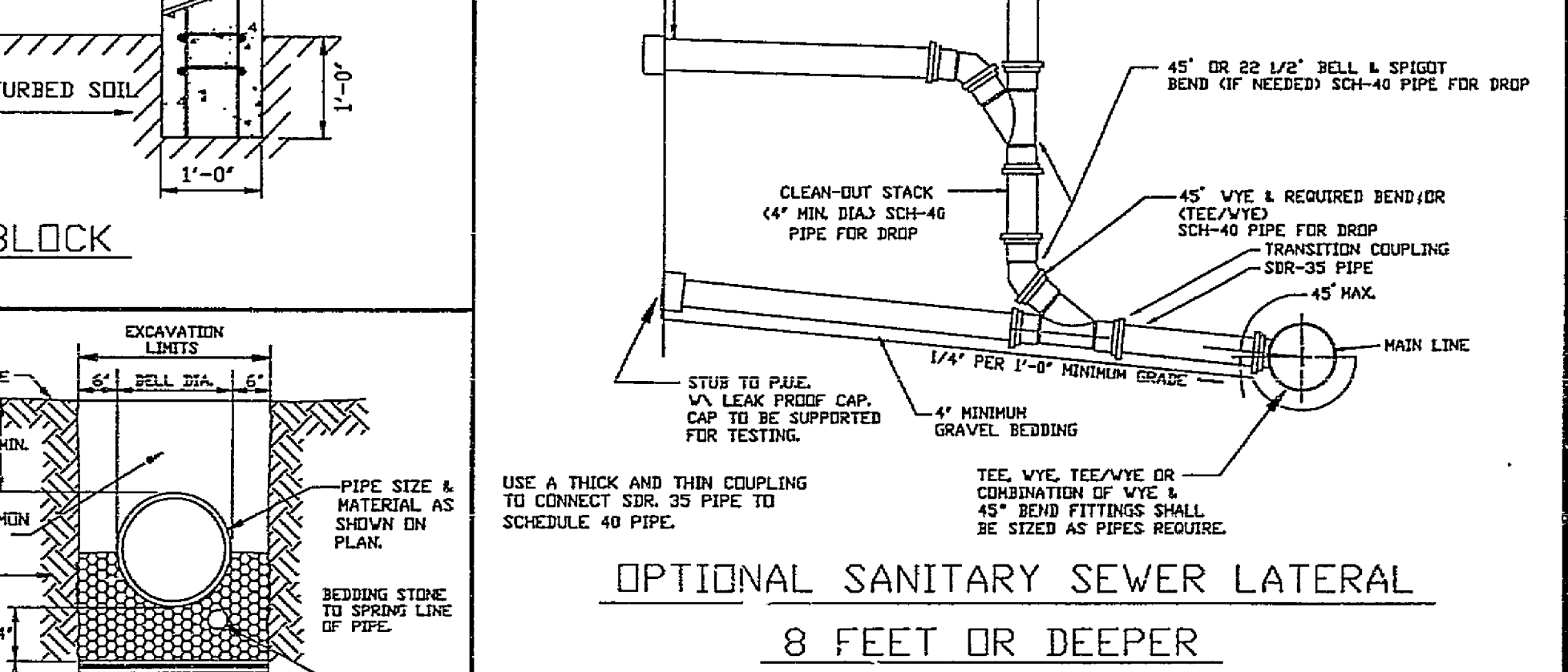
SECTION

SANITARY SEWER LATERAL



SECTION

SANITARY SEWER LATERAL



SECTION

SANITARY SEWER LATERAL

DEPARTMENT OF ENGINEERING AND INSPECTIONS

NO.	REVISIONS	DATE
1		
2		
3		
4		
5		
6		

COUNTY OF ROANOKE

DATE: 10/19/93
SCALE: NO SCALE
DRAWING BY: CN,TB,AF (G/CAD/DETAILS/SEWER/SEWER)
DESIGNED BY: ROANOKE COUNTY ENGINEERING DEPT.
APPROVED BY:

SEWER DETAIL
SHEET OF 4