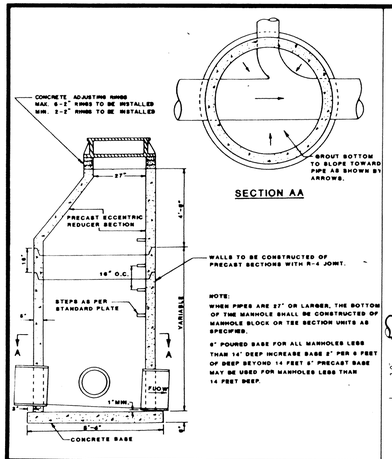
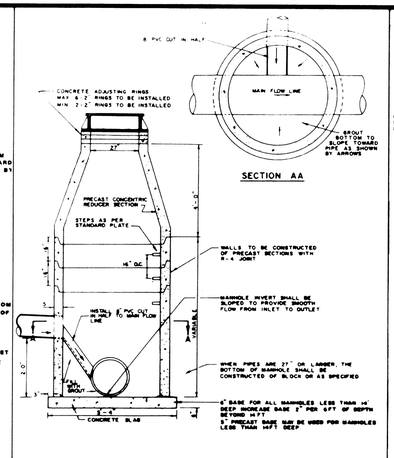
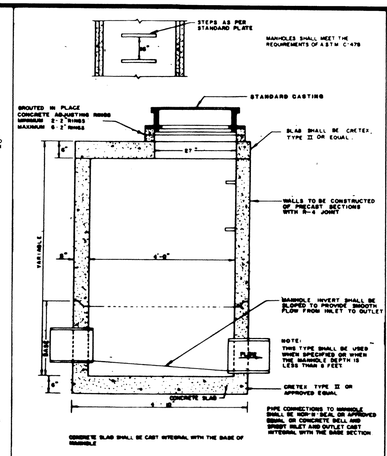


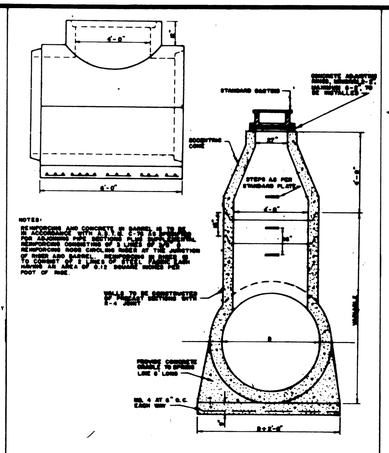
Standard Manhole



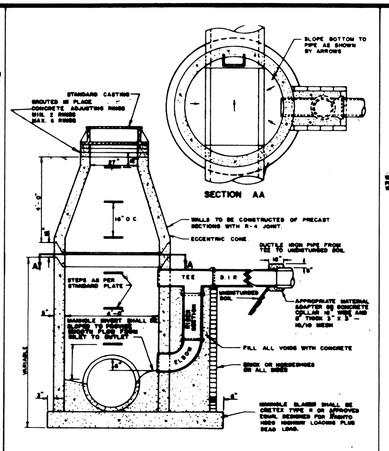
Inside Drop Manhole



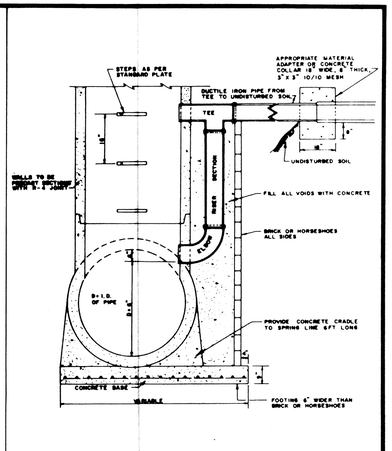
Slab-Top Manhole



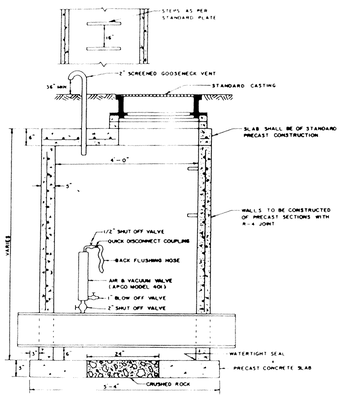
T-Section Manhole



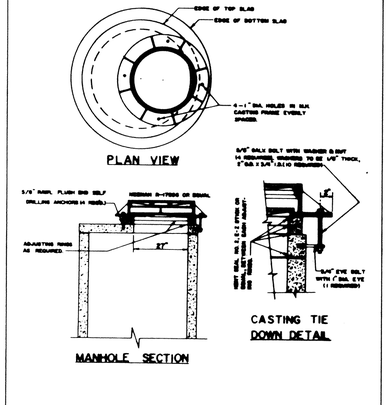
Standard Drop Manhole



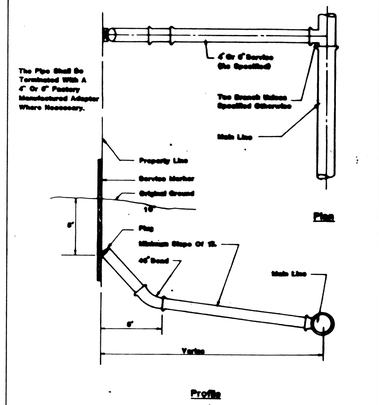
T-Section Drop Manhole



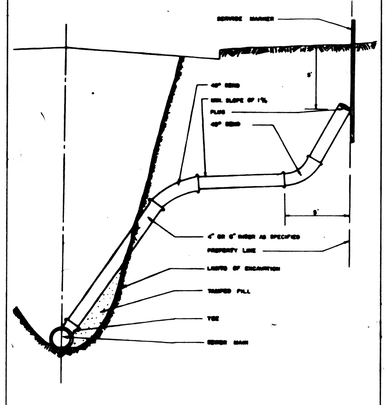
Air Releif Manhole (FORCEMAIN)



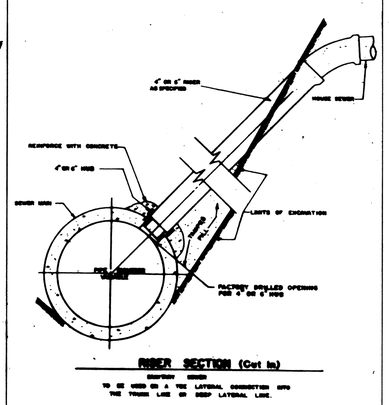
Watertight Casting For Slab M.H.



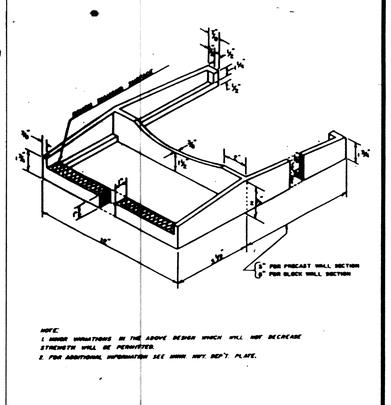
Typical House Service



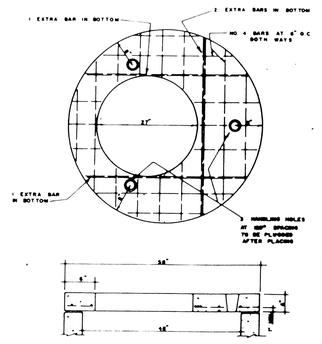
Service Riser Section



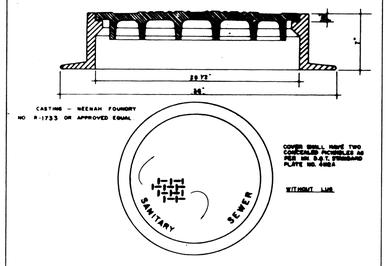
Service Riser (Large Dia. Pipe)



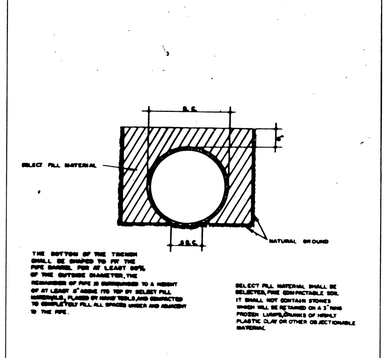
Cast Iron Or Aluminum Step



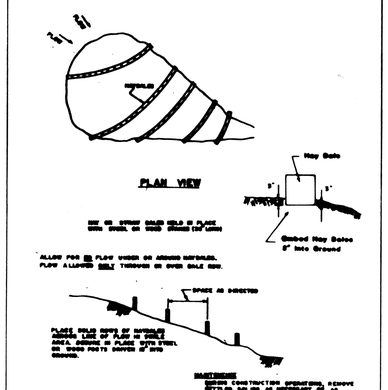
Slab Top M.H. (Circular Opening)



Cover—Neenah Foundry R-1733 Or Equal



Class C Pipe Bedding



Erosion Control Structure

AS-BUILT
DRAWN BY: MRK Date 12-26-84
CHECKED BY:
INSPECTOR TCH Date 2-1-85
DESIGN ENGR SL Date 2-1-85
PARTY CHIEF SF Date 2-1-85

SAP 204-124-01

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 State of Minn Statutes, Sections 326.02 to 326.16
Jerry J Maruska
Date 3/1/85 Minn Reg No 15316

civil municipal planning environmental land surveying soil exploration
p.o. box | oasis minnesota 56308 • (612)475-7181

REVISIONS	DESIGNED BY	CITY OF ELK RIVER
	TJM	DETAIL PLATES
SCALE	CHECKED BY	SANITARY SEWER
HORIZ NONE	TJM	
VERT	DRAWN BY MRJ	BK PG DATE FEB. 1985 SHEET 22 OF 27 SHEETS FILE NO ER311.02

74

DRAWING NUMBER
SAFCO PRODUCTS • NEW HOPE, MINNESOTA
REORDER BY PART NUMBER 03503

DRAWING NUMBER
SAFCO PRODUCTS • NEW HOPE, MINNESOTA
REORDER BY PART NUMBER 03503

DRAWING NUMBER
GATES 83
22
SAFCO PRODUCTS • NEW HOPE, MINNESOTA
REORDER BY PART NUMBER 03503