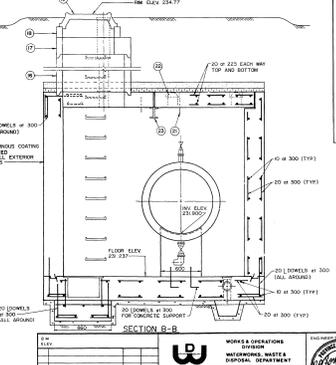
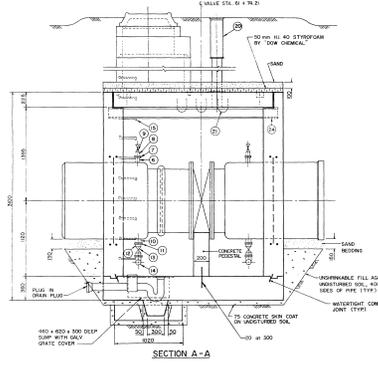
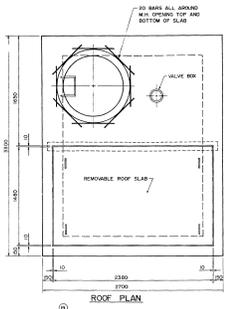
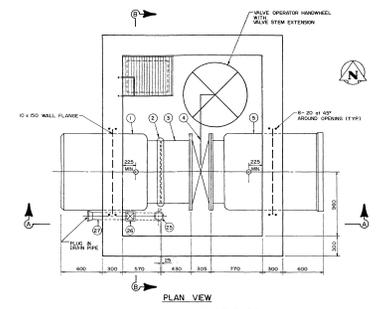


APPENDIX 'H'

FEEDER MAIN VALVE CHAMBER AND AIR RELEASE VALVE DETAILS



LIST OF MATERIALS

NO.	DESCRIPTION	LENGTH	QTY	DETAIL
1.	800 # Precast Concrete Pressure Pipe Wall Floor (Support to Vicinities #1)	1432	1	
2.	800 # Vicinities Coupling (5/8" x 4 1/2") or Equivalent		1	
3.	800 # Concrete Pipe Adaptor (Vicinity #2 to Floor)	736	1	
4.	800 # Short Body Butterfly Valve	368	1	
5.	800 # Precast Concrete Pressure Pipe Wall Floor (Floor to #1)	3070	1	
6.	50 # Cast Brass or Brass Nipple (Threaded)	125	2	
7.	50 # Cast Brass or Brass Flange (Threaded)	2	2	
8.	50 # Cast Brass or Brass Nipple (Threaded)	2	2	
9.	50 # Brass Gate Valve (Threaded)	2	2	
10.	75 # Cast Brass or Brass Nipple (Threaded)	125	2	
11.	75 # Cast Brass or Brass Flange (Threaded)	2	2	
12.	75 # Cast Brass or Brass Nipple (Threaded)	125	2	
13.	75 # Brass Gate Valve (Threaded)	2	2	
14.	75 # Cast Brass or Brass 90° Street Elbow (Threaded)	2	2	
15.	Standard City of Winnipeg Movable Screen at 300 T.C.		1	See Appendix D-3
16.	800 # 40M C-15 Class II Precast Concrete Manhole Floor Section		1	See Appendix
17.	800 # 75 # 40M C-15 Class II Precast Concrete Manhole Floor Section		1	
18.	750 # 40M C-15 Class II Precast Concrete Manhole Floor Section		1	
19.	Standard City of Winnipeg Manhole Frame and Seta Gate		1	See 20A & 20B
20.	Standard City of Winnipeg Hinged Gate Valve Box (w/ Valve Stem Extension with 3/8" Dia Nut)		1	See 20A & 20B
21.	2" dia. Round		4	D-5
22.	Lifting Lug		4	D-2
23.	Steel Beam 400 x 38 (40x21 - 300)		2550	1
24.	Steel Bearing Plate (225 x 185 x 10)		2	
25.	200 # PVC (SABS) 100' Pipe and Drain (w/ Screw on Hatch Cover)		1	
26.	100 # Blacksteel Valve		1	
27.	100 # PVC (SABS) Manhole (w/ Plug (Support to #1))		1	

Item Supplied by City of Winnipeg
 METRIC: All units and notes use Type 308 Stainless Steel

AS-CONSTRUCTED
 2024-11-15
 2024-11-15
 2024-11-15



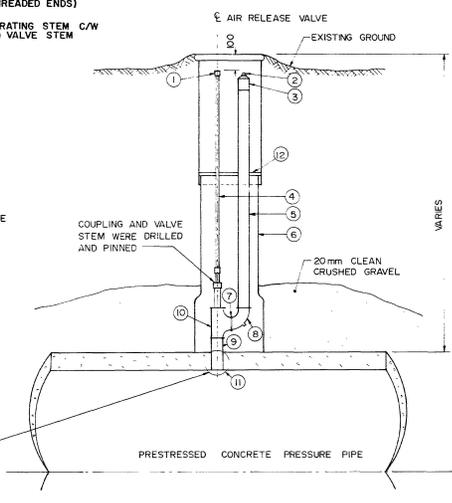
METRIC
 WHOLE NUMBERS INDICATE MILLIMETERS
 DECIMAL NUMBERS INDICATE METERS

THE CITY OF WINNIPEG
 WORKS AND OPERATIONS DIVISION
 WEST END FEEDERMAN
 DETAILS OF VALVE CHAMBER AT
 BRADFORD ST.

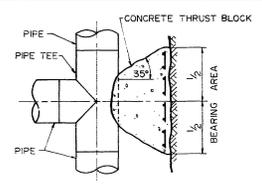
NO.	REV.	DESCRIPTION	DATE
1	1	ISSUED FOR PERMIT	2024-11-15
2	2	ISSUED FOR CONSTRUCTION	2024-11-15

DESIGNED BY: J.D.P.
 CHECKED BY: M.D.M.
 DATE: MAY 1987

- ① 25 OPERATING NUT
- ② 32 CAST BRONZE OR BRASS PLUG (FINGER TIGHT)
- ③ 32 CAST BRONZE OR BRASS COUPLING (THREADED ENDS)
- ④ 19 TYPE 316 STAINLESS STEEL VALVE OPERATING STEM C/W THREADED COUPLING SIZED FOR ITEM ③ VALVE STEM
- ⑤ 32 COPPER PIPE (FIELD MEASURED)
- ⑥ STANDARD CITY OF WINNIPEG ADJUSTABLE VALVE BOX
- ⑦ 32 CLOSE BRONZE OR BRASS NIPPLE
- ⑧ 32 90° CAST BRONZE OR BRASS STREET ELBOW WITH 5 DRAINING HOLES
- ⑨ 32 CAST BRONZE OR BRASS NIPPLE 75 LONG (THREADED)
- ⑩ 32 CLASS 150 BRONZE, ANGLE GLOBE VALVE (CRANE FIG. 17 OR APPROVED EQUAL)
- ⑪ 32 THREADED OUTLET (IRON PIPE THREADS)
- ⑫ SUPPORT WASHER

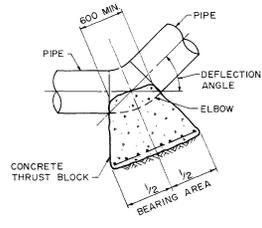


STANDARD AIR RELEASE VALVE DETAIL - N.T.S.



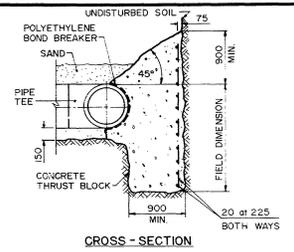
PLAN

TEE

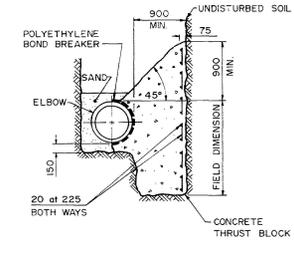


PLAN

ELBOW



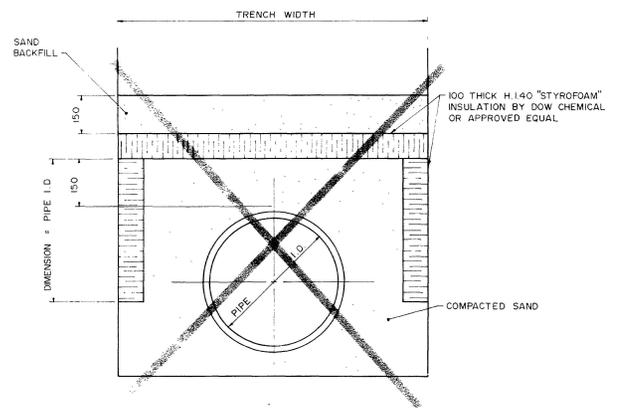
CROSS-SECTION



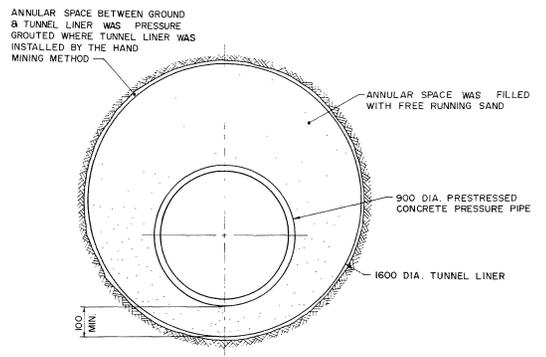
CROSS-SECTION

TYPICAL THRUST BLOCK DETAILS FOR ELBOWS AND TEES - N.T.S.

LIST OF THRUST BLOCKS			
LOCATION (APPROX.)	PIPE DIA.	ANGLE	BEARING AREA
STA. 0+39.20	900	45°	7.25 sq. metres
STA. 0+55.37	900	45°	7.25 sq. metres
STA. 3+79.22	900	45°	7.25 sq. metres
STA. 4+69.24	900	45°	7.25 sq. metres
STA. 18+67.14	900	45°	7.25 sq. metres
STA. 18+75.76	900	45°	7.25 sq. metres
STA. 34+67.35	900	45°	7.25 sq. metres
STA. 34+80.28	900	45°	7.25 sq. metres
STA. 37+96.77	900	45°	7.25 sq. metres
STA. 38+10.96	900	45°	7.25 sq. metres
STA. 38+76.12	900	45°	7.25 sq. metres
STA. 38+89.16	900	45°	7.25 sq. metres
STA. 48+57.58	900	60°	9.46 sq. metres
STA. 49+00.73	900	30°	4.90 sq. metres
STA. 54+69.49	900	45°	7.25 sq. metres
STA. 55+04.01	900	35°	5.70 sq. metres
STA. 66+37.58	900	22°30'	3.69 sq. metres
STA. 66+60.28	900	22°30'	3.69 sq. metres
STA. 69+66.67	900	60°	9.46 sq. metres
STA. 69+92.89	900	60°	9.46 sq. metres
STA. 70+45.48	900	45°	7.25 sq. metres
STA. 70+73.91	900	45°	7.25 sq. metres
STA. 75+26.35	900	45°	7.25 sq. metres
STA. 75+37.79	900	35°	5.70 sq. metres
STA. 76+86.06	900	23°30'	3.86 sq. metres
STA. 79+21.87	900	45°	7.25 sq. metres
STA. 79+28.94	900	45°	7.25 sq. metres
STA. 80+67.36	900	58°	9.18 sq. metres
STA. 80+86.91	900	58°	9.18 sq. metres
STA. 83+99.99	900	26°23'35"	4.30 sq. metres
STA. 87+18.16	900	11°56'	1.97 sq. metres
STA. 87+48.89	900	33°05'	5.39 sq. metres
STA. 87+57.48	900	45°	7.25 sq. metres
STA. 93+49.31	900	45°	7.25 sq. metres
STA. 93+56.38	900	45°	7.25 sq. metres
STA. 95+53.72	900	45°	7.25 sq. metres
STA. 95+60.79	900	45°	7.25 sq. metres
STA. 96+76.05	900	46°51'	7.53 sq. metres
STA. 96+82.88	900	46°51'	7.53 sq. metres
STA. 96+92.26	900	DEAD END	9.46 sq. metres

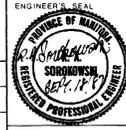


INSULATION DETAIL - N.T.S.



TYPICAL TUNNEL LINER DETAIL - N.T.S.

AS-CONSTRUCTION
 7200 Lakeshore Blvd. W. Unit 20107
 INSPECTION SERVICES
 WATERWORKS, WASTE & DISPOSAL DEPARTMENT



B.M. ELEV.			
DESIGNED D.D.M., R.A.S. BY		CHECKED D.D.M., R.A.S. BY	
DRAWN BY	J.D.P.	APPROVED BY	<i>[Signature]</i>
HOR. SCALE	AS SHOWN	RELEASED FOR CONSTRUCTION	<i>[Signature]</i>
NO. REVISIONS	DATE	DATE	AUGUST / 87

W
 WORKS & OPERATIONS DIVISION
 WATERWORKS, WASTE & DISPOSAL DEPARTMENT

ENGINEER'S SEAL
THE CITY OF WINNIPEG
 WORKS AND OPERATIONS DIVISION

WEST END FEEDERMAIN
 MISCELLANEOUS DETAILS

CITY DRAWING NUMBER
 SHEET OF
D-1627

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES