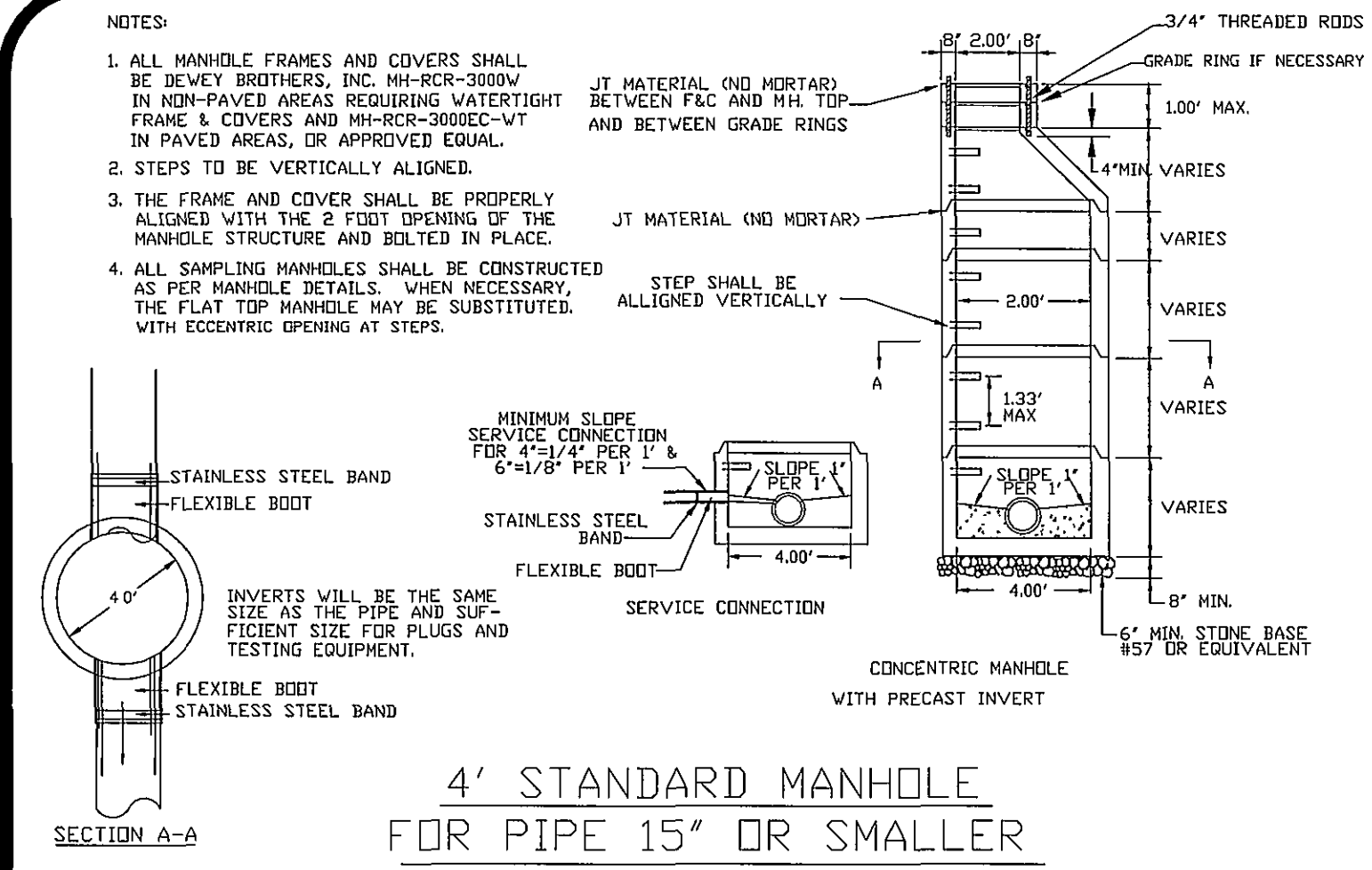
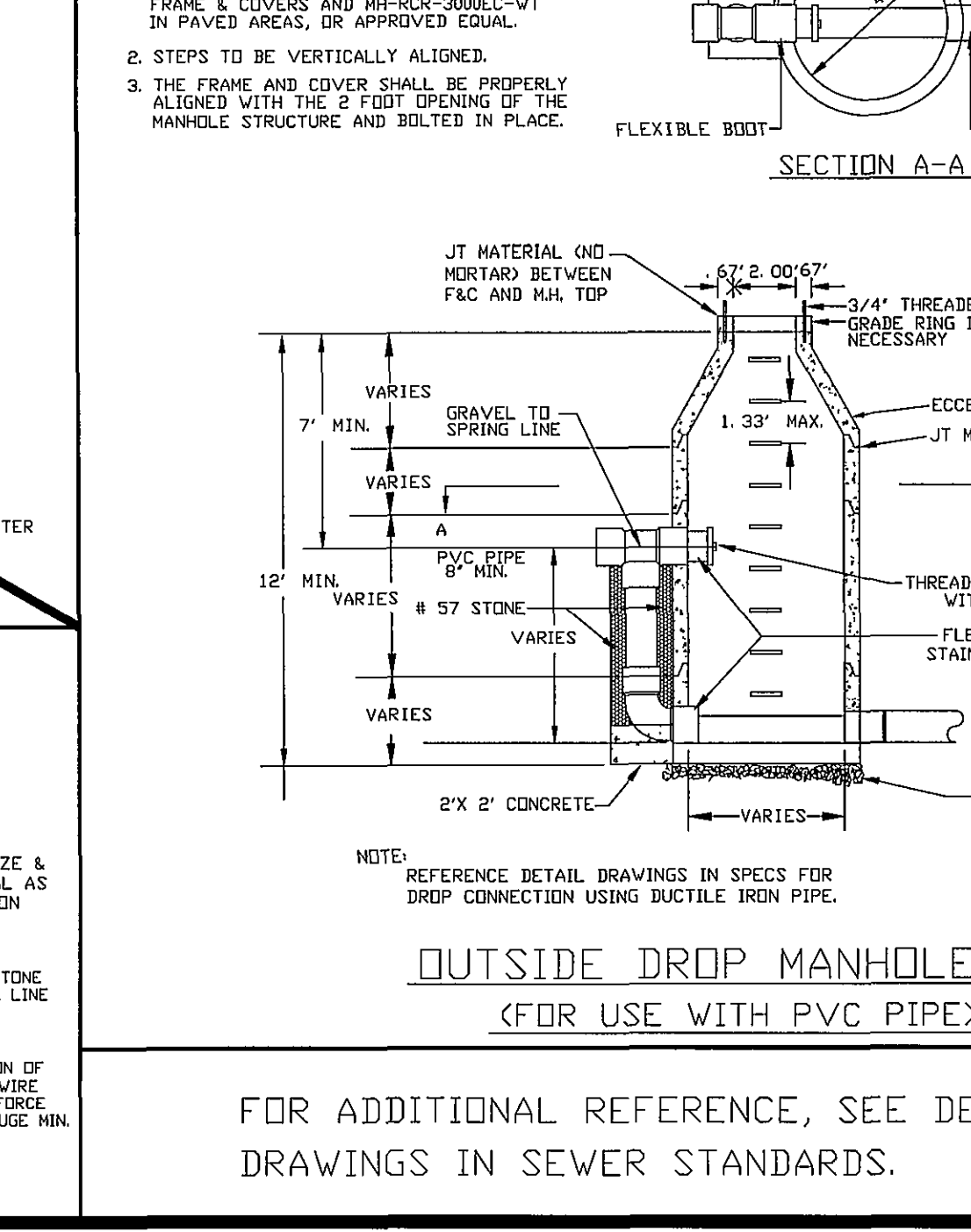
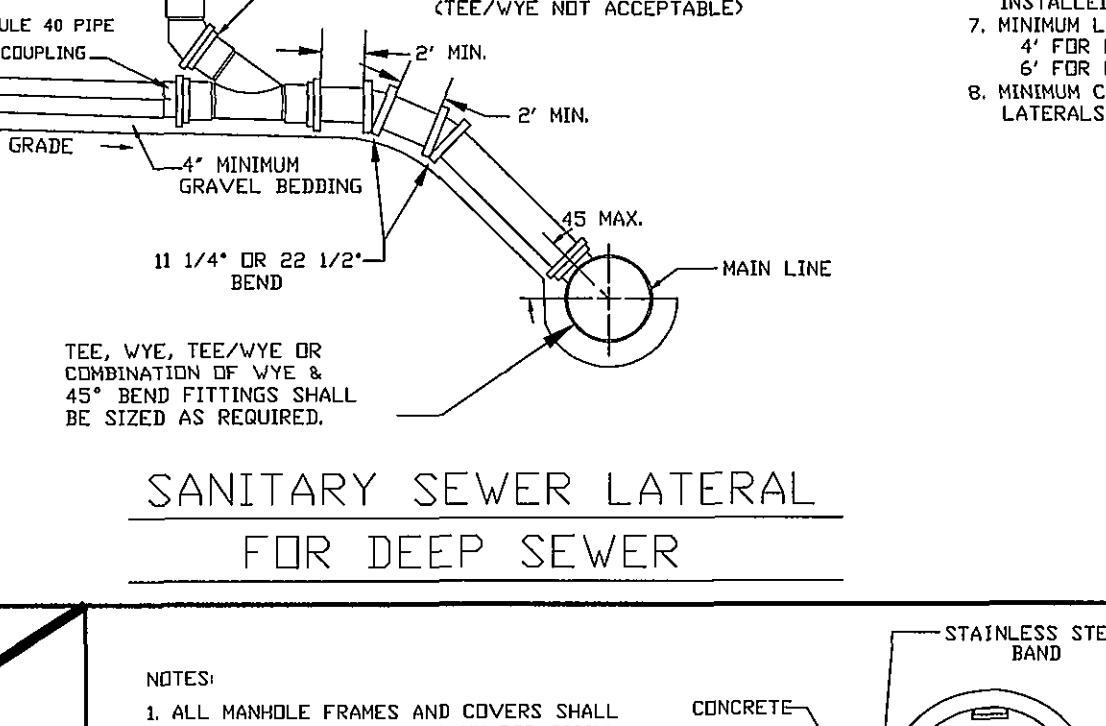
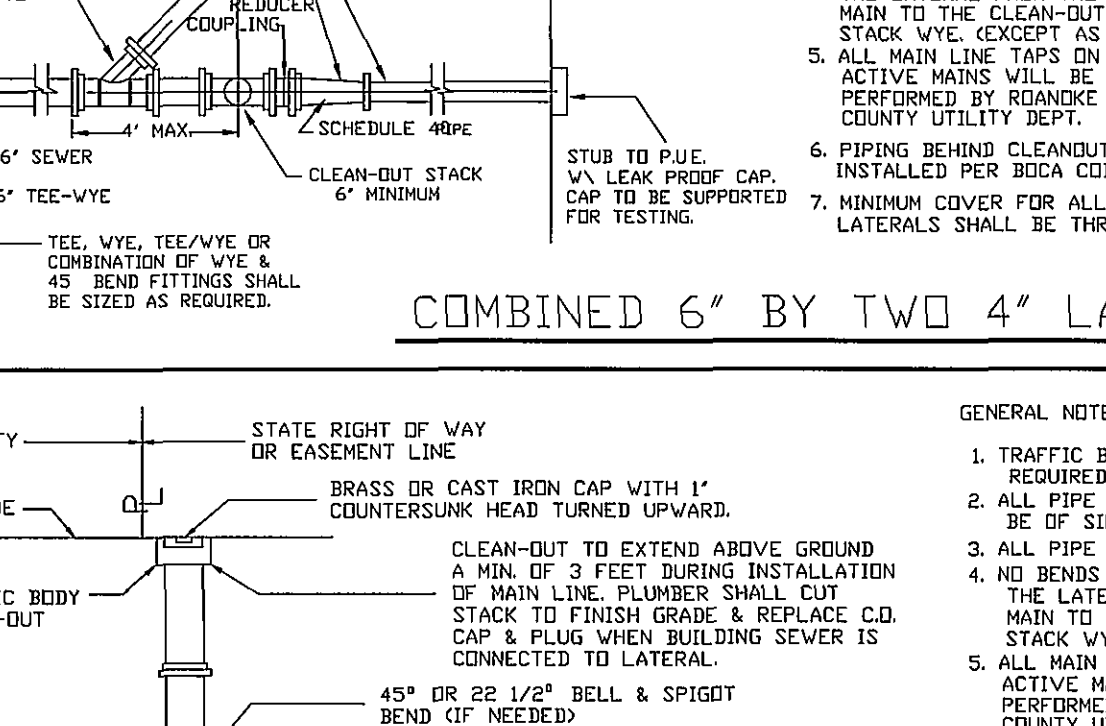
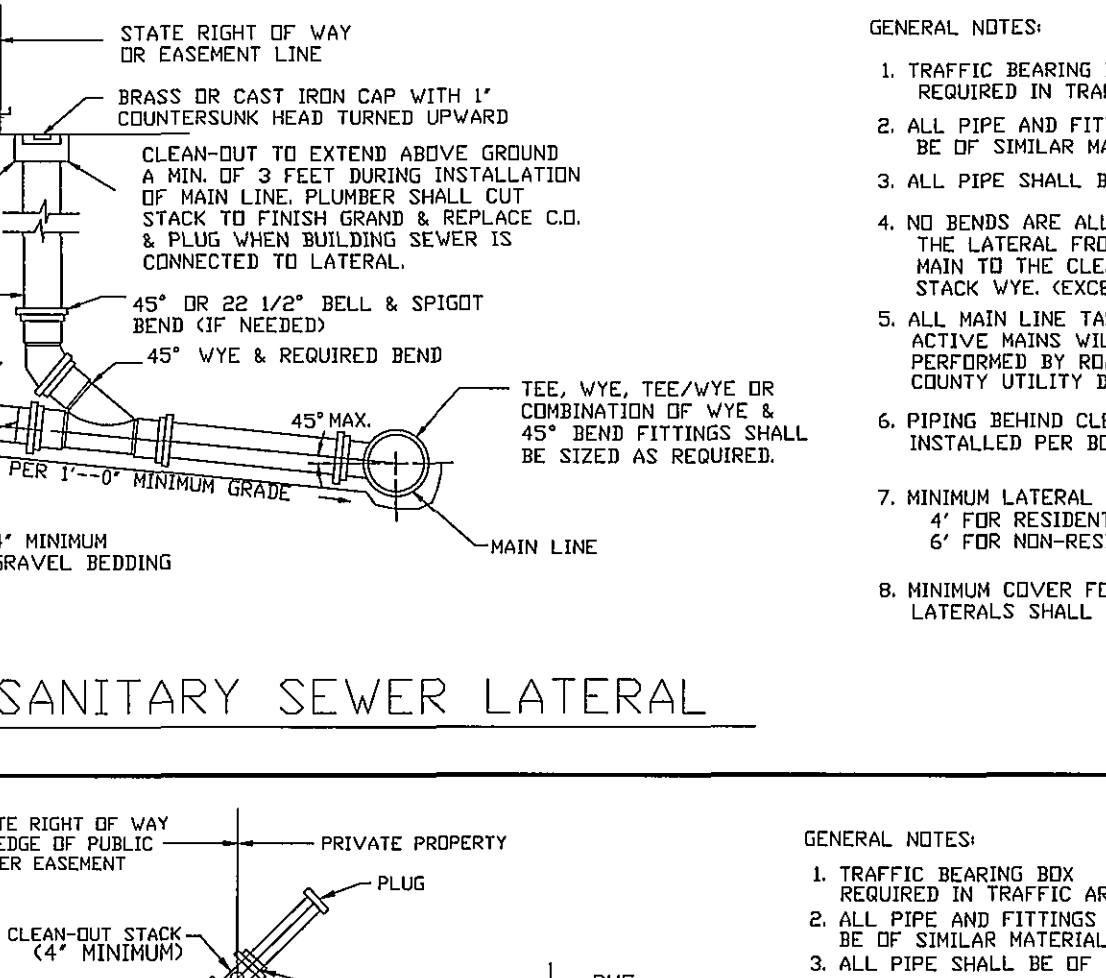
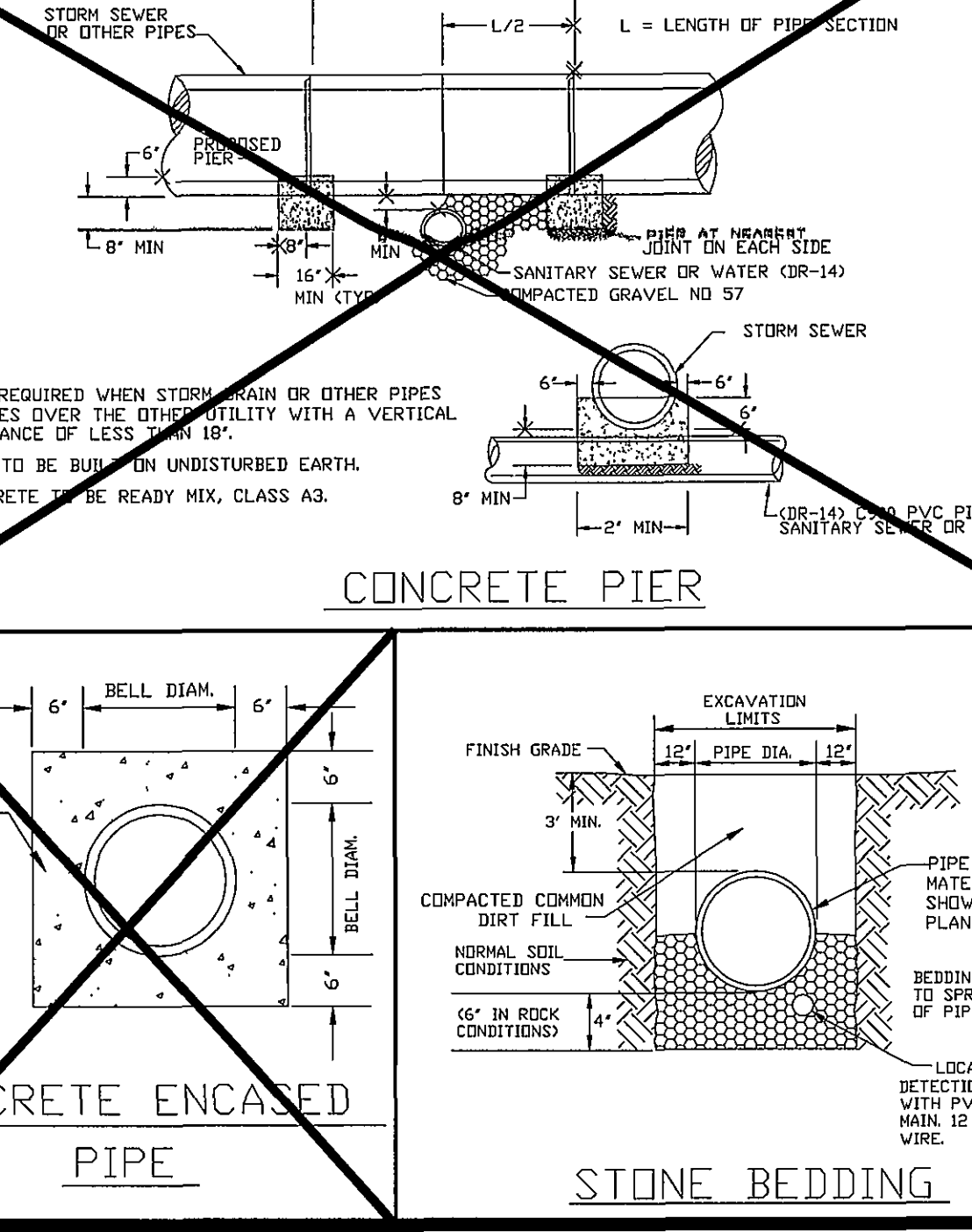
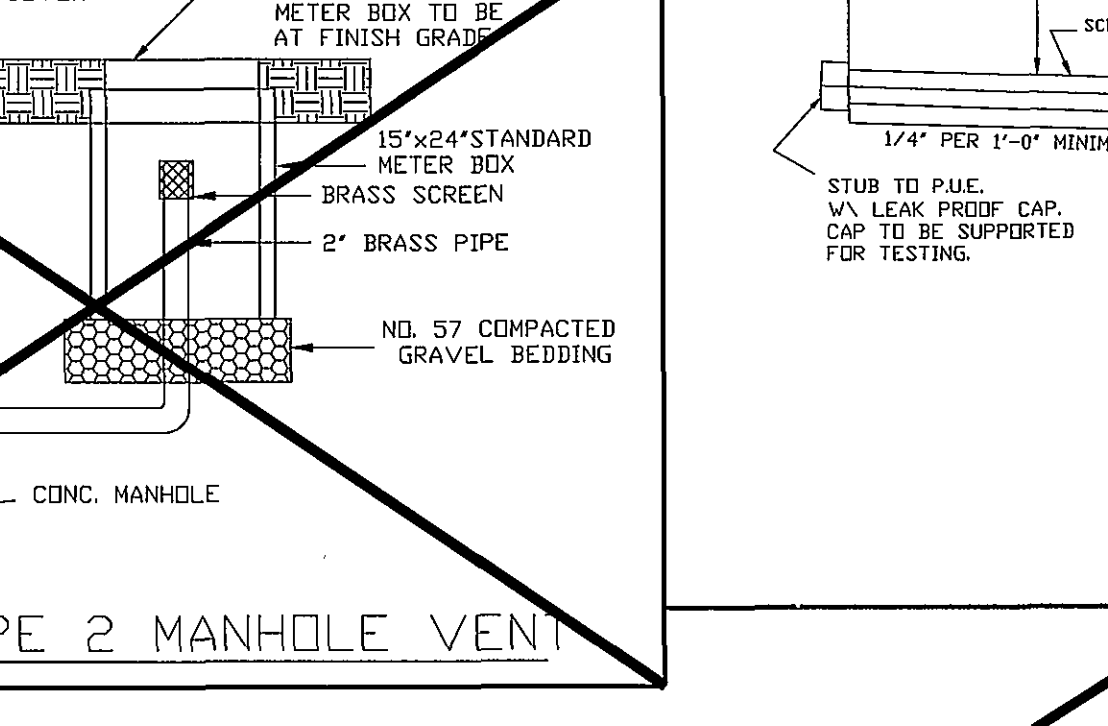
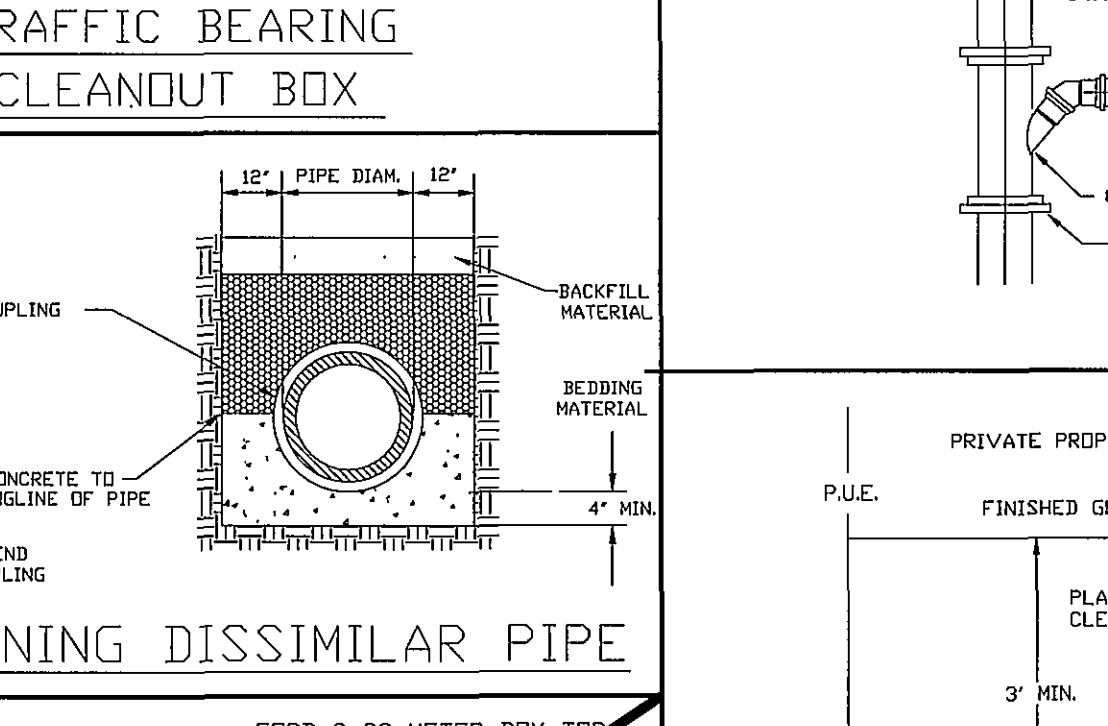
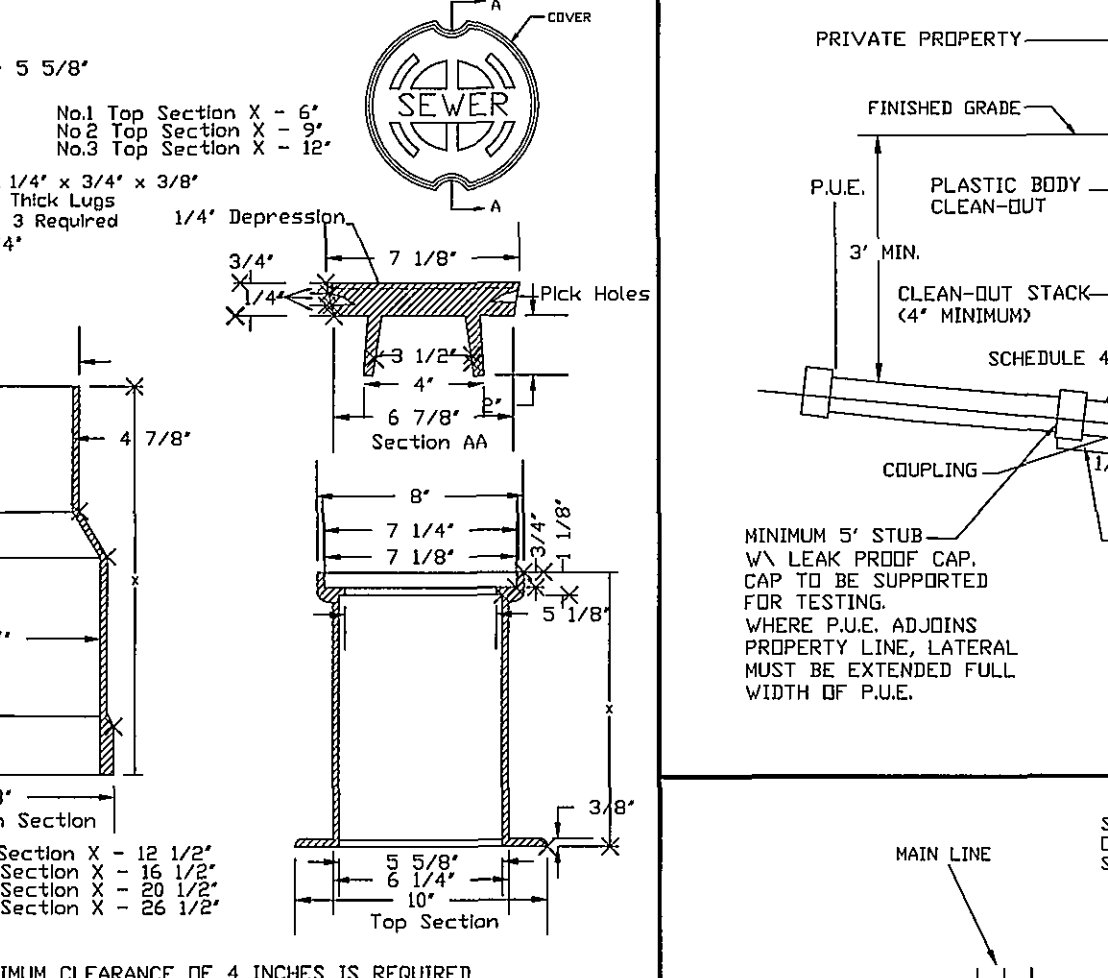
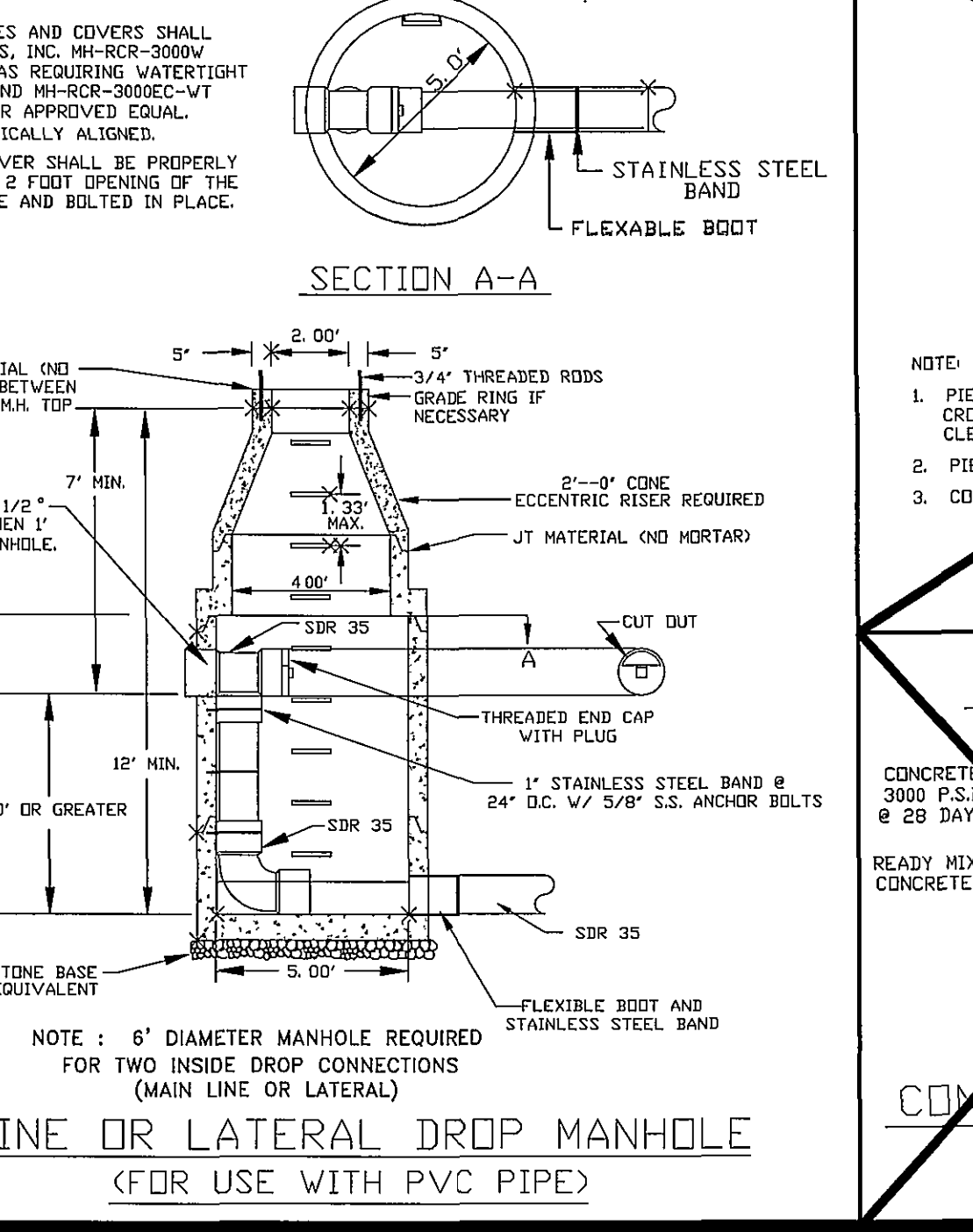
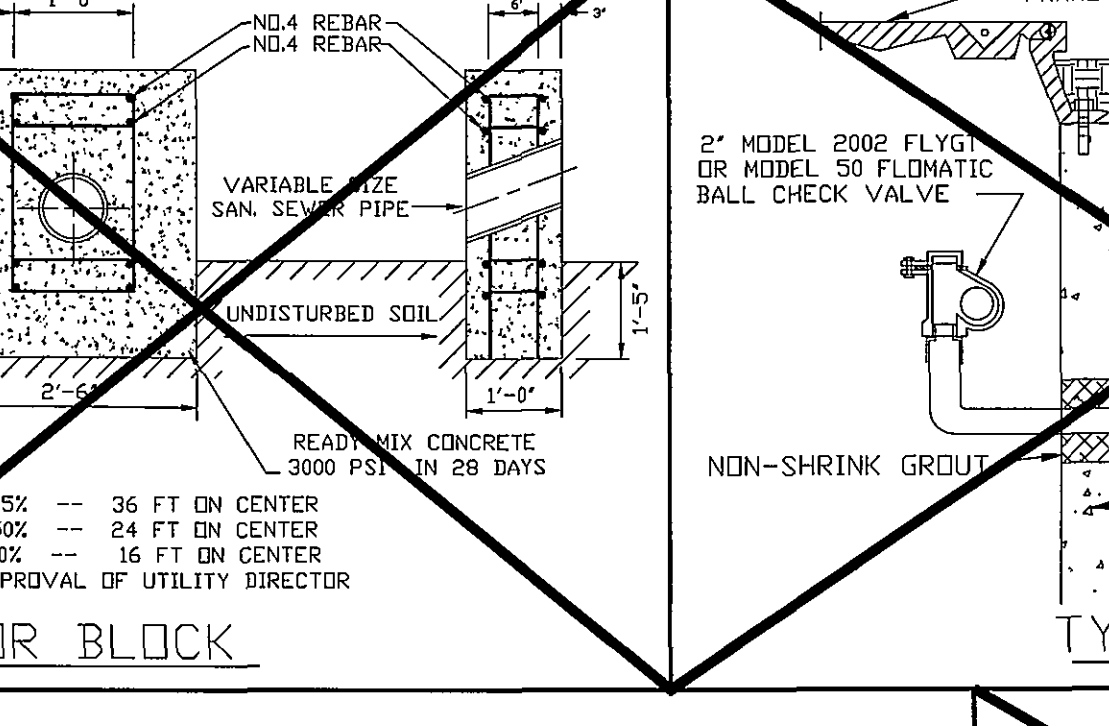
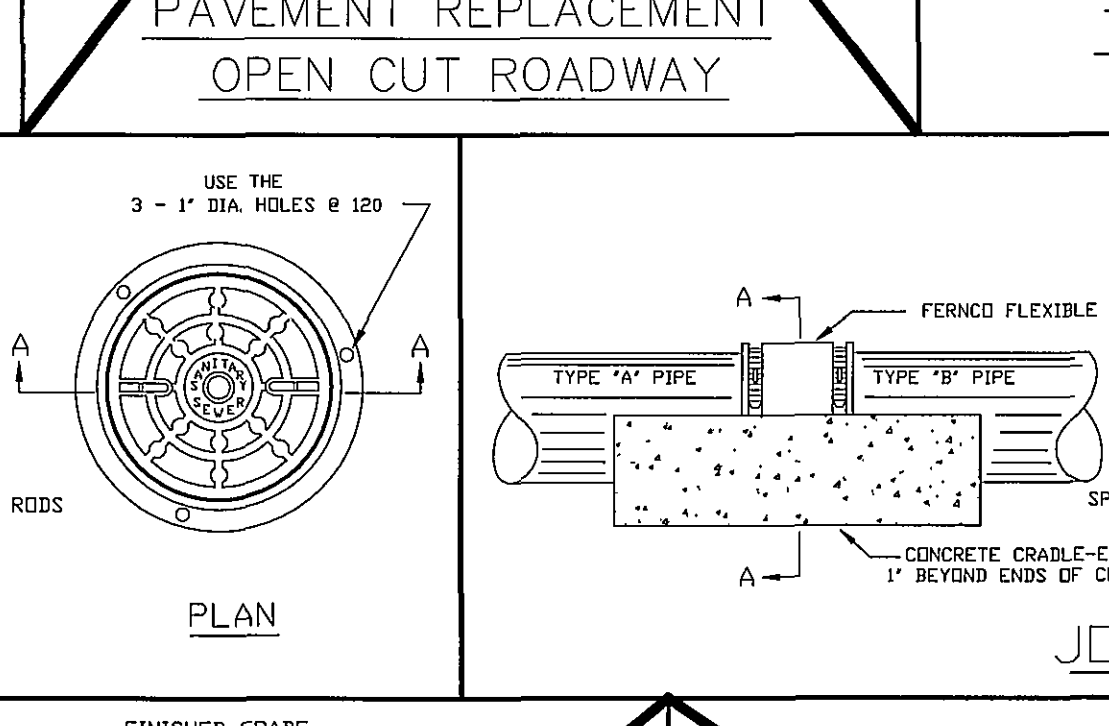
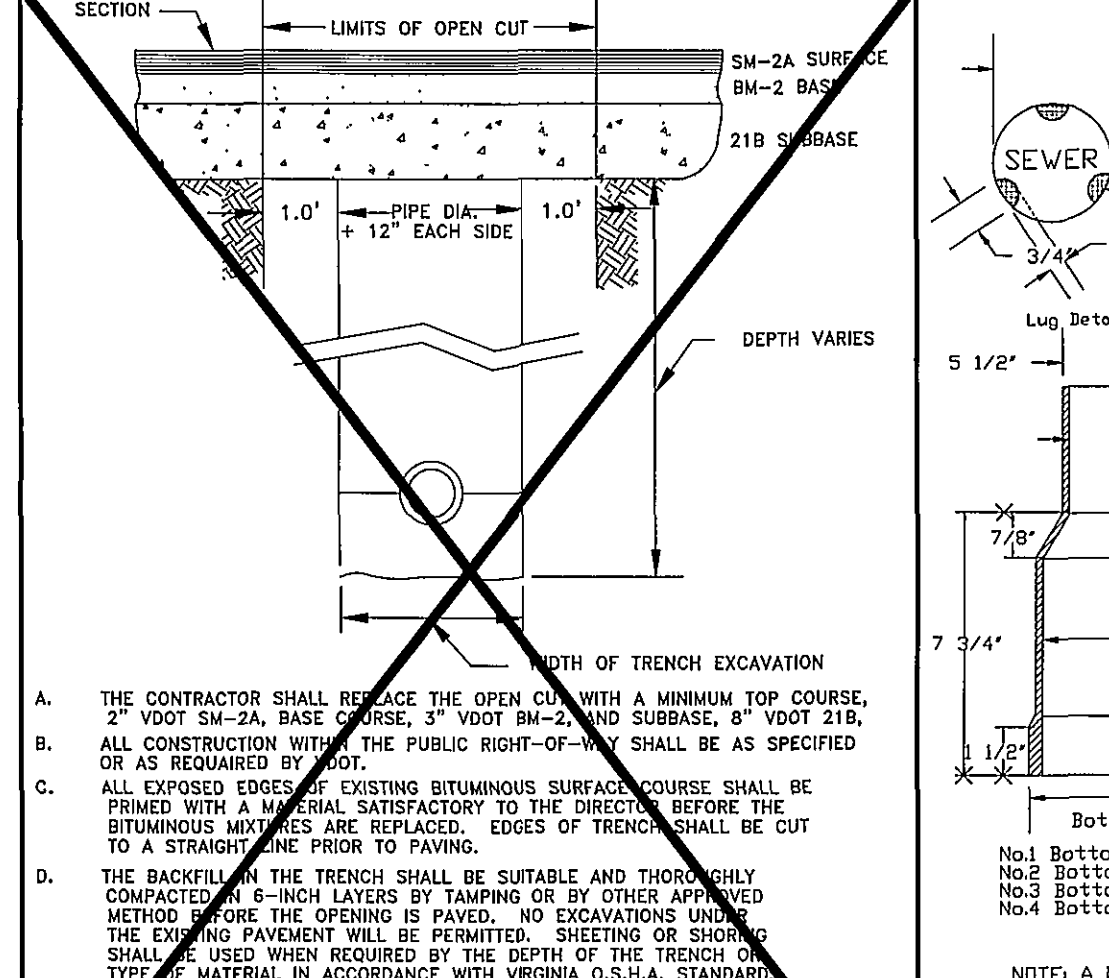
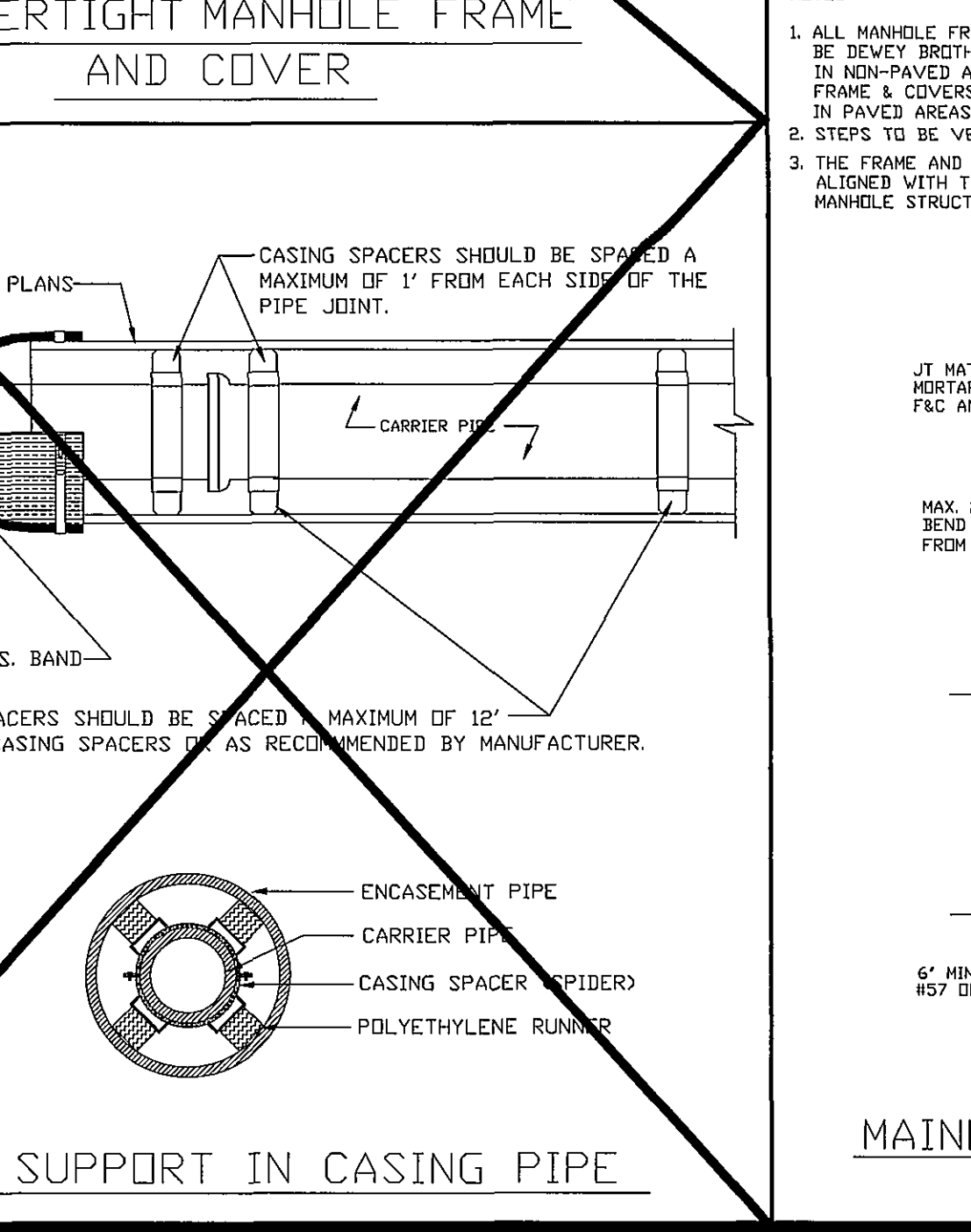
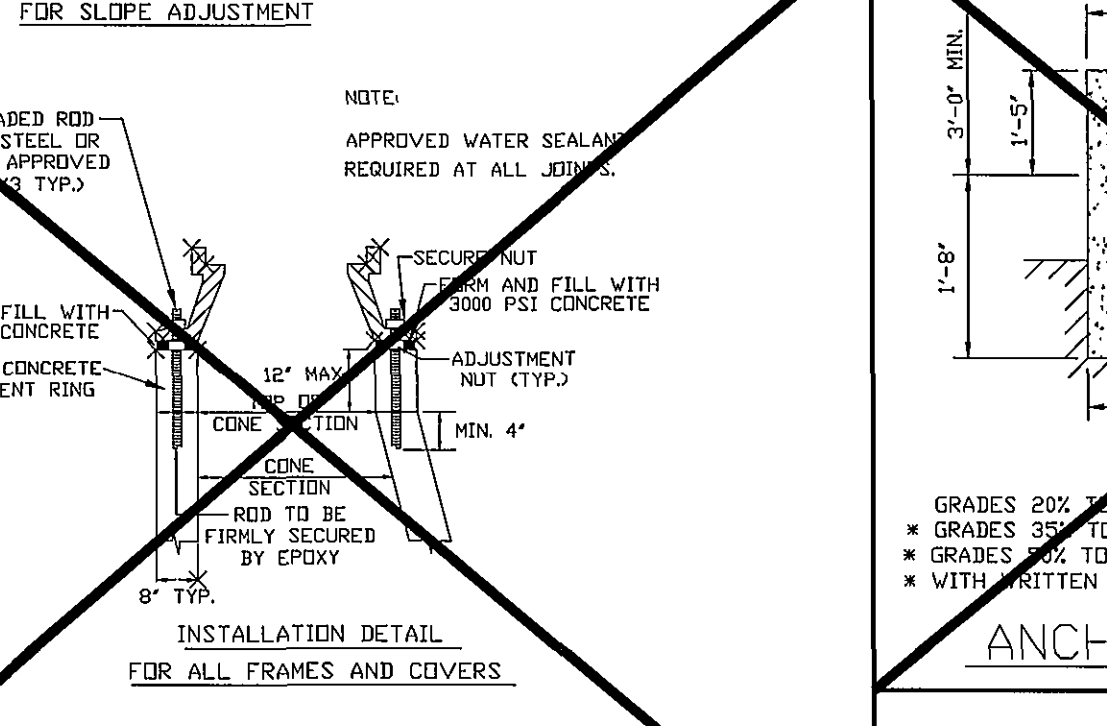
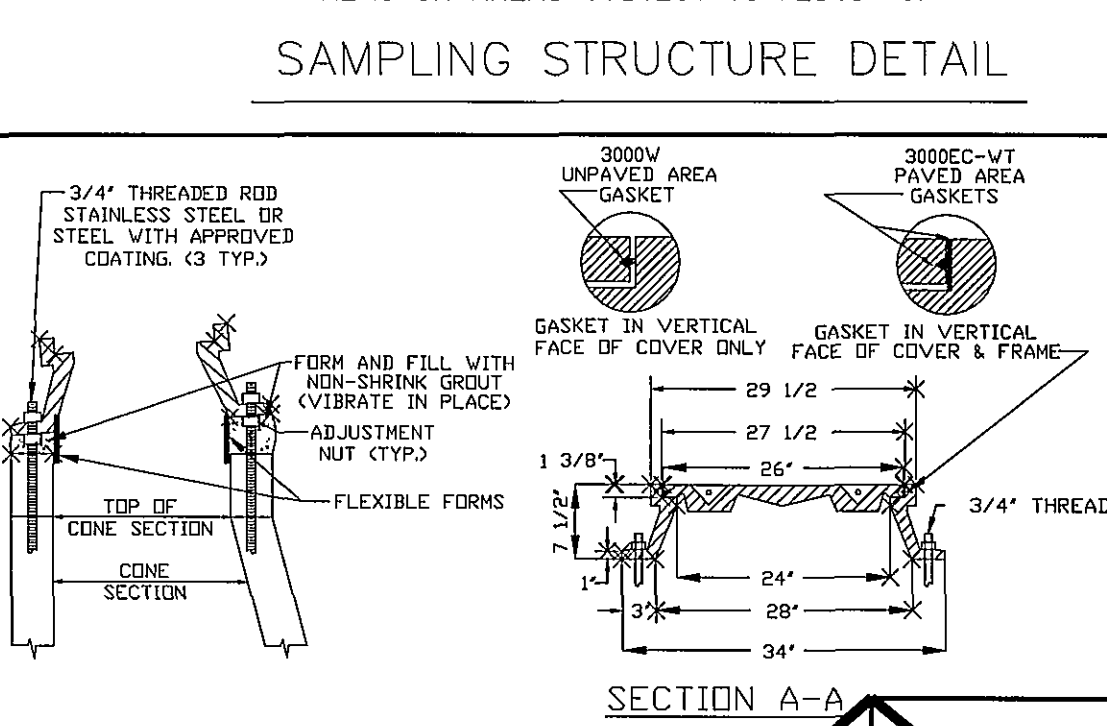
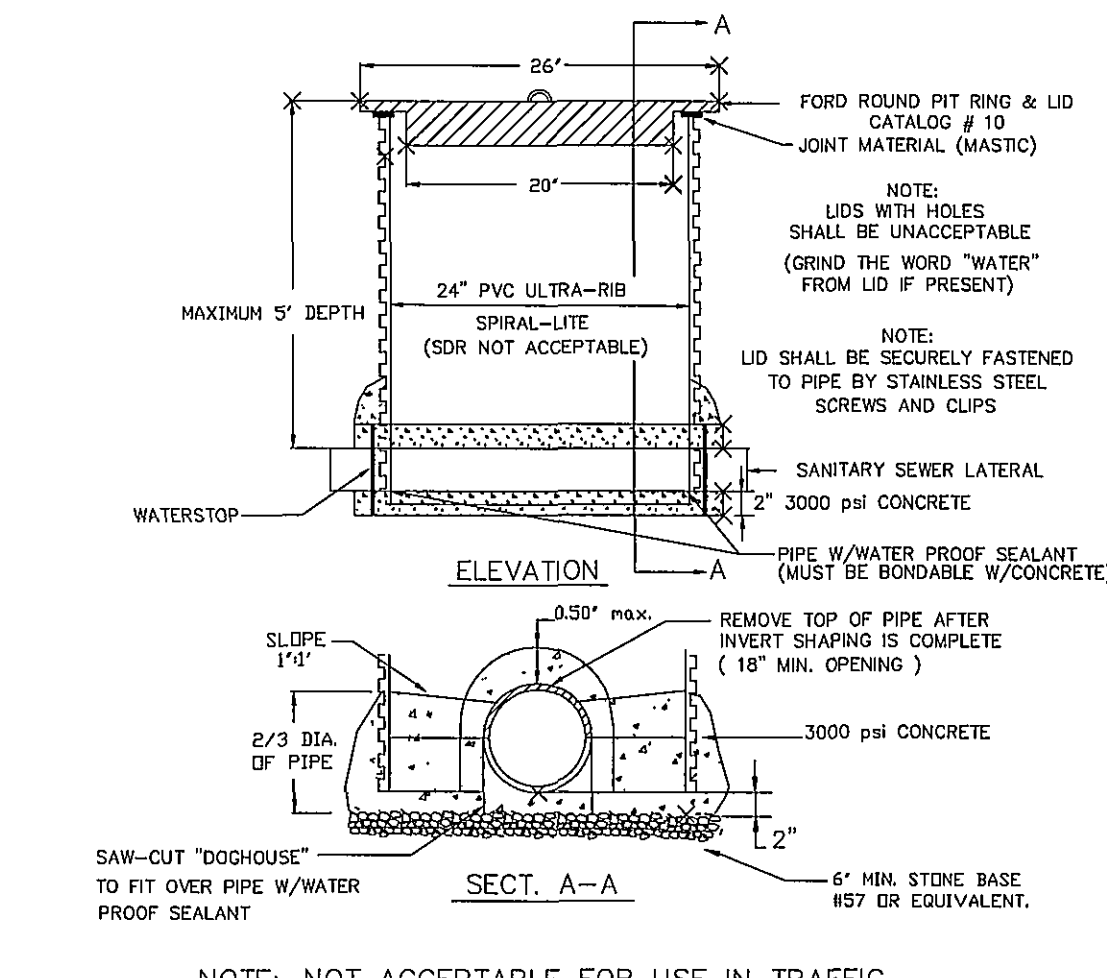
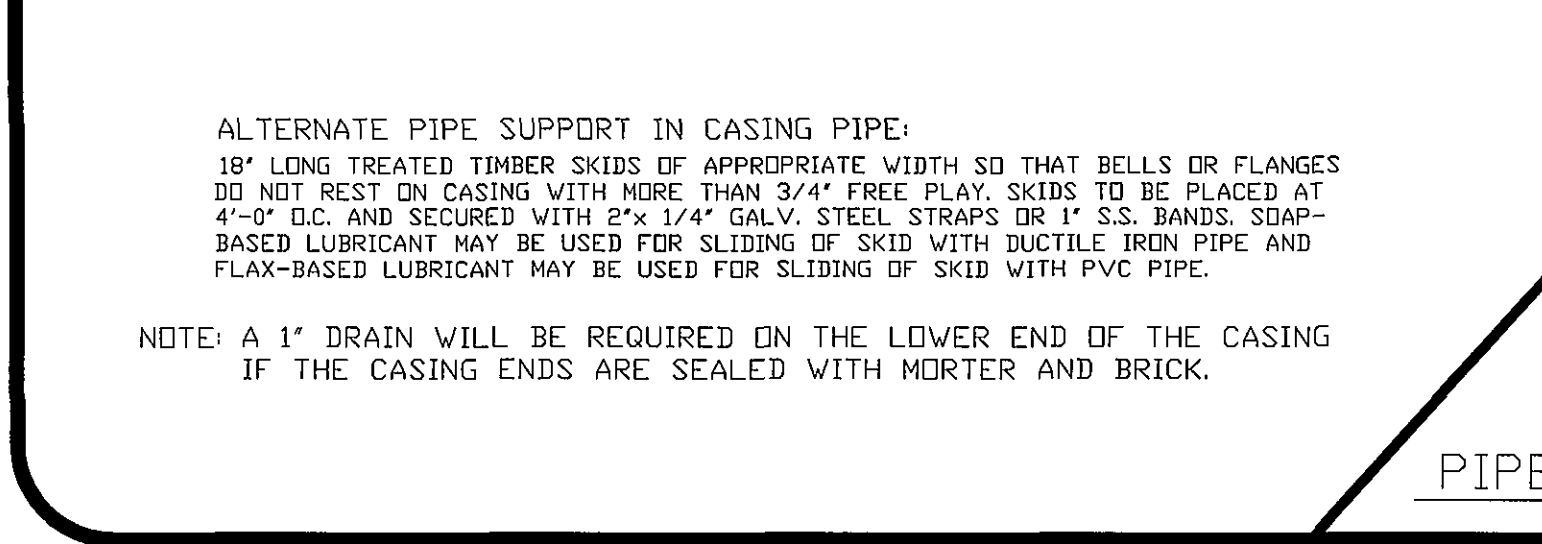
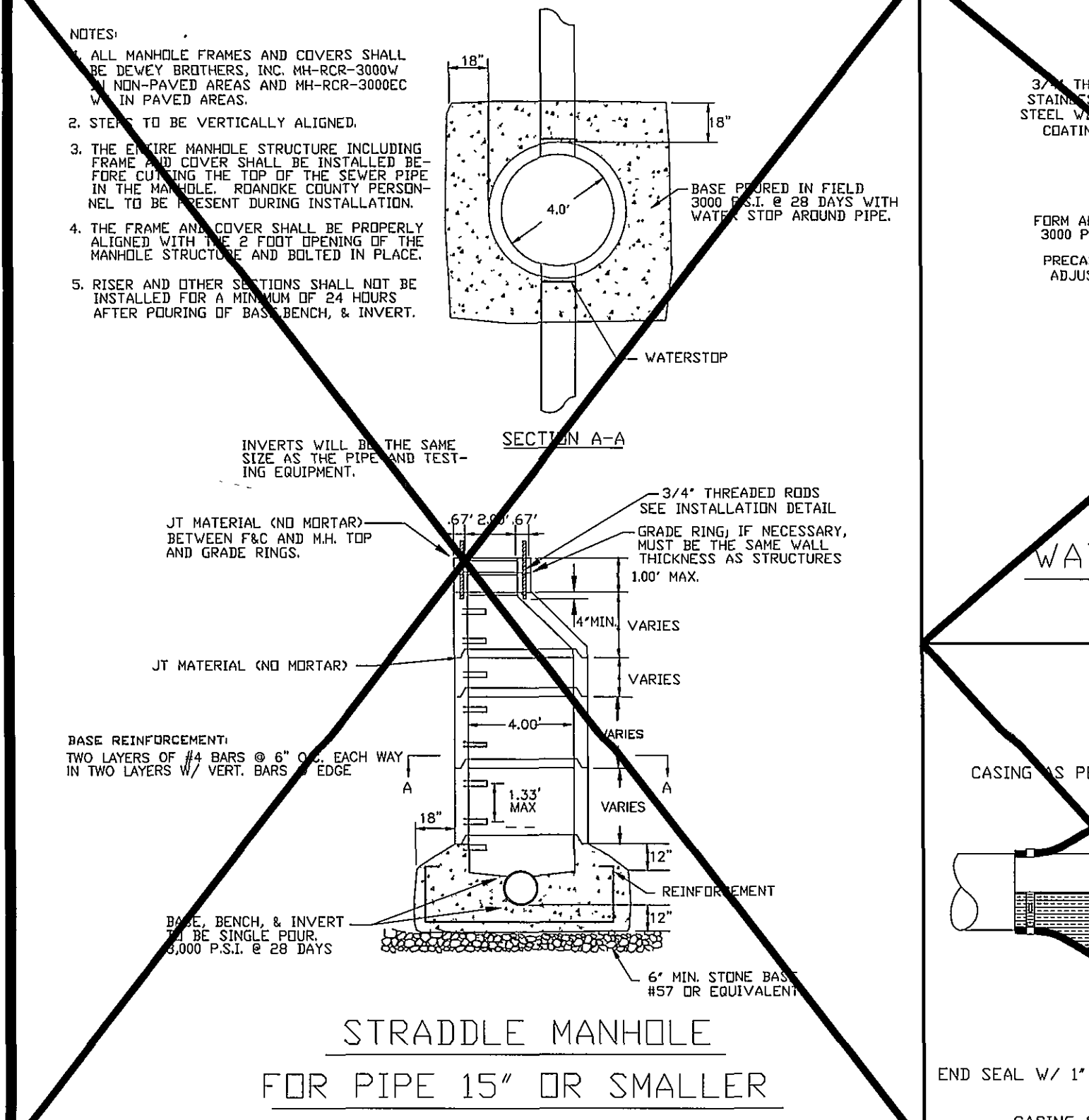




Pipe Diameter (in.)	Min. Time (min.)	Length for Min. Time (ft.)	Specified Time for Length (L) Shown (min/sec)									
			100 ft	150 ft	200 ft	250 ft	300 ft	350 ft	400 ft	450 ft		
4	3:46	597	.380 L	3:46	3:46	3:46	3:46	3:46	3:46	3:46		
6	5:40	398	.854 L	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24	
8	7:34	298	1.520 L	7:34	7:34	7:34	7:34	7:36	8:52	10:08	11:24	
10	9:28	239	2.374 L	9:28	9:28	9:28	9:53	11:52	13:51	15:49	17:48	
12	11:20	199	3.418 L	11:20	11:20	11:24	14:15	17:05	19:56	22:47	25:38	
15	14:10	159	5.342 L	14:10	14:10	17:48	22:15	26:42	31:09	35:36	40:04	
18	17:00	133	7.692 L	17:00	19:13	25:38	32:03	38:27	44:52	51:16	57:41	
21	19:50	114	10.470 L	19:50	26:10	34:54	43:37	52:21	61:00	69:48	78:31	
24	22:40	99	13.674 L	22:47	34:11	45:34	56:58	68:22	79:46	91:10	102:33	
27	25:30	88	17.306 L	28:51	43:16	57:41	72:07	86:32	100:57	115:22	129:48	
30	28:20	80	21.366 L	35:37	53:25	71:13	89:02	106:50	124:38	142:26	160:15	
33	31:10	72	25.852 L	43:05	64:38	86:10	107:43	129:16	150:43	172:21	193:53	
36	34:00	66	30.768 L	51:17	76:55	102:34	128:12	153:50	179:29	205:07	230:46	

MINIMUM SPECIFIED TIME REQUIRED FOR A 1.0 PSIG PRESSURE DROP FOR SIZE AND LENGTH OF PIPE INDICATED FOR Q = 0.0015



GENERAL NOTES:

- TRAFFIC BEARING BOX REQUIRED IN TRAFFIC AREAS.
- ALL PIPE AND FITTINGS SHALL BE OF SIMILAR MATERIAL.
- ALL PIPE SHALL BE OF SAME SIZE.
- NO BENDS ARE ALLOWED IN THE LATERAL FROM THE MAIN TO THE CLEAN-OUT STACK VYE (EXCEPT AS NOTED).
- ALL MAIN LINE TAPS ON ACTIVE MAINS WILL BE PERFORMED BY ROANOKE COUNTY UTILITY DEPT.
- PIPING BEHIND CLEANDOUT TO BE INSTALLED PER BOCA CODE.
- MINIMUM LATERAL SIZE: 4" FOR RESIDENTIAL SERVICE 6" FOR NON-RESIDENTIAL SERVICE
- MINIMUM COVER FOR ALL SEWER LATERALS SHALL BE THREE (3') FEET

GENERAL NOTES:

- TRAFFIC BEARING BOX REQUIRED IN TRAFFIC AREAS.
- ALL PIPE AND FITTINGS SHALL BE OF SIMILAR MATERIAL.
- ALL PIPE SHALL BE OF SAME SIZE.
- NO BENDS ARE ALLOWED IN THE LATERAL FROM THE MAIN TO THE CLEAN-OUT STACK VYE (EXCEPT AS NOTED).
- ALL MAIN LINE TAPS ON ACTIVE MAINS WILL BE PERFORMED BY ROANOKE COUNTY UTILITY DEPT.
- PIPING BEHIND CLEANDOUT TO BE INSTALLED PER BOCA CODE.
- MINIMUM LATERAL SIZE: 4" FOR RESIDENTIAL SERVICE 6" FOR NON-RESIDENTIAL SERVICE
- MINIMUM COVER FOR ALL SEWER LATERALS SHALL BE THREE (3') FEET

GENERAL NOTES:

- TRAFFIC BEARING BOX REQUIRED IN TRAFFIC AREAS.
- ALL PIPE AND FITTINGS SHALL BE OF SIMILAR MATERIAL.
- ALL PIPE SHALL BE OF SAME SIZE.
- NO BENDS ARE ALLOWED IN THE LATERAL FROM THE MAIN TO THE CLEAN-OUT STACK VYE (EXCEPT AS NOTED).
- ALL MAIN LINE TAPS ON ACTIVE MAINS WILL BE PERFORMED BY ROANOKE COUNTY UTILITY DEPT.
- PIPING BEHIND CLEANDOUT TO BE INSTALLED PER BOCA CODE.
- MINIMUM LATERAL SIZE: 4" FOR RESIDENTIAL SERVICE 6" FOR NON-RESIDENTIAL SERVICE
- MINIMUM COVER FOR ALL SEWER LATERALS SHALL BE THREE (3') FEET

GENERAL NOTES:

- ALL MANHOLE FRAMES AND COVERS SHALL BE DEWEY BROTHERS, INC. MH-RCR-3000V IN NON-PAVED AREAS REQUIRING WATERTIGHT FRAME & COVERS AND MH-RCR-3000EC-VT IN PAVED AREAS, OR APPROVED EQUAL.
- STEPS TO BE VERTICALLY ALIGNED.
- THE FRAME AND COVER SHALL BE PROPERLY ALIGNED WITH THE 2 FOOT OPENING OF THE MANHOLE STRUCTURE AND BOLTED IN PLACE.

NOTE: REFERENCE DETAIL DRAWINGS IN SPECS FOR DROP CONNECTION USING DUCTILE IRON PIPE.

FOR ADDITIONAL REFERENCE, SEE DETAIL DRAWINGS IN SEWER STANDARDS.