



Wise County Public Service Authority

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Vacuum Testing of New Sanitary Sewer Manholes Inspection Report Form

Project Name: _____ Phase No.: _____

Contractor: _____

Test Date	Inspector	Street Name/ Specific Location	MH #	MH Diameter (in)	MH Depth (ft)	Minimum Time Required (sec)	Vacuum (in Hg)		Test Result
							Start	End	
11/2/18	SC	Main Street	2	60	14	90	10"	8.5"	Fail
12/3/18	MG	Olive Branch Rd.	3	48	10	60	10"	9.5"	Pass

See reverse for testing procedures and time specification. Bottom two table entries above represent example tests.

Notes:

**MINIMUM TEST TIMES FOR
VARIOUS MANHOLE DIAMETERS**

	DIAMETER (INCHES)					
	42	48	54	60	66	72
DEPTH (FT)	TIME (SECONDS)					
8'	17	20	23	26	29	33
10'	21	25	29	33	36	41
12'	25	30	35	39	43	49
14'	30	35	41	46	51	57
16'	34	40	46	52	58	67
18'	38	45	52	59	65	73
20'	42	50	53	65	72	81
22'	46	55	64	72	79	89
24'	51	59	64	78	87	97
26'	55	64	75	85	94	105
28'	59	69	81	91	101	113
30'	63	74	87	98	108	121

NOTES:

- 1) THE TEST HEAD SHALL BE PLACED AT THE TOP OF THE MANHOLE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- 2) A VACUUM OF 10" OF MERCURY SHALL BE DRAWN ON THE MANHOLE, THE VALVE ON THE VACUUM LINE OF THE TEST HEAD CLOSED, AND THE VACUUM PUMP SHUT OFF. THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO 9" OF MERCURY.
- 3) THE MANHOLE SHALL PASS IF THE TIME FOR THE VACUUM READING TO DROP FROM 10" TO 9" OF MERCURY MEETS OR EXCEEDS THE VALUES INDICATED IN THE TABLE ABOVE.
- 4) IF THE MANHOLE FAILS THE INITIAL TEST, NECESSARY REPAIRS SHALL BE MADE BY APPROVED METHOD(S). THE MANHOLE SHALL BE RETESTED UNTIL A SATISFACTORY RESULT IS OBTAINED.
- 5) IF THE MANHOLE CONTINUES TO FAIL TESTS, THE PSA RESERVES THE RIGHT TO REQUIRE COMPLETE REPLACEMENT.



MANHOLE VACUUM TESTING

EFFECTIVE
05/2023

DETAIL NO.
404