

Appendix A

Village of Dresden 904 Chestnut Street P.O. Box 263 Dresden, OH 43821
 Board of Public Affairs Water Dept. (740) 754-2569

Application and Contract for Rental Dwelling
 Water and Sewer

Service Address		Billing Acct #	<input type="checkbox"/> Residential <input type="checkbox"/> Business	# of Units	Billing Service Start Date	Accepted By	Date
Owner	Co-Owner	Tenant		Co-Tenant			
Owner Billing Address							
Email							
Phone		Employer	Employer				
DL ID/ TAX ID	DOB	DL ID/ TAX ID	DOB				
Owner Signature							

Owner Authorizes Tenant Direct Billing Agreement YES NO

Property owners are the sole party responsible for the base rate and consumption of the municipal services per dwelling. Residential rental property owners, desiring water service, who agree to allow the property owner's utility bill to be sent to their "Tenant", must sign for each service, for each new "Tenant", before such service will be provided. Prior to new service the current utility bill for the dwelling must have a zero (\$0) balance. A residential rental property owner who authorizes their water service bill to be sent to their "Tenant" still bears the full responsibility for the payment of their water service bill.

The Village of Dresden Board of Public Affairs only contracts services with the owner of the dwelling.

Property Owner Agreement

Billing Address: I understand and agree that the tenants listed at the service address covered by this agreement are authorized to receive water/sewer bills.

I understand and agree that this agreement does not relieve me of property owner liability as described in the Village of Dresden, Board of Public Affairs, Water and Sewer regulations, # 8.2, 10.1, and # 2025-50 as may be amended, that I, the owner, am responsible for all charges to the above service address, such as unpaid water and sewer charges incurred by tenants.

Once the Tenant Direct Billing Agreement becomes effective, I will receive notice of all delinquencies regarding the above service address. I further give the Village of Dresden my permission to provide notice to me at the phone number listed in this application.

Refusal to give complete information and to sign the application/contract prohibits the turn-on of service(s).

Refusal to provide timely access to the dwelling for shut-off by the dwelling owner will result in the shut-off of utilities to the property regardless of the number of dwellings served.

Tenants are not eligible for extensions or payment schedules. Additionally, once a property is delinquent to the point of shut-off services, the bill will need to be paid in full, including a \$25.00 reconnect fee prior to turning back on. Service turn-on can only be authorized by the property owner.

The Property Owner, by signing above, hereby agrees to be governed by the rules and regulations of the Village of Dresden Board of Public Affairs, including such rules regarding responsibility for payment, and that the Board of Public Affairs reserves the right to discontinue service to the property until such delinquency is paid.

Appendix A cont.

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 Board of Public Affairs Water Dept. (740) 754-2569
 Application and Contract for Rental Dwelling
 Water and Sewer

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Owner Billing Address		Tenant Billing Address											
Email		Email											
Phone		Employer		Phone		Employer		DL ID/ TAX ID		DOB		DOB	
Owner Signature		Tenant Signature											

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DRESDEN BOARD OF PUBLIC AFFAIRS
UTILITY DEPARTMENT

APPLICATION FOR WATER AND/OR SEWER TAP

Date _____ Application No. _____
Name of Applicant _____
Applicant's Address _____
Name of Owner _____
Service Address _____
Addition _____ Size of Service _____
Lot No. _____ *Cost of Tap Permit \$ _____

* If size of service is over 2" this is an estimated cost and final cost will be available only after completion of tap.

THIS APPLICATION FOR A TAPPING PERMIT IS: _____ APPROVED
CHECKED BY _____ _____ DISAPPROVED
(See Explanation)

Explanation _____

NOTE TO APPLICANT: Upon receipt of APPROVAL a Tapping Permit must be obtained within 30 days by mailing or presenting this application- with the cost of the tap to the Board of Public Affairs, Dresden, Ohio.

If applicant is outside the Village Limits the Village is required to obtain a street cut permit, therefore, any approval is only tentative until the cut permit is received from the State, County or Township. The customer will apply for this permit.

Appendix C

Effective January 1, 2026

Inside the Village

Water Taps

¾" Tap \$1248.00 + meter, parts, labor (1809.00)
Total \$3,057.00

1" Tap \$1404.00 + meter

2" Tap \$2302.00 + meter

4" Tap \$2990.00 + meter

6" Tap \$4600.00 + meter

Outside the Village

Water Taps (10% MORE)

¾" Tap \$1372.00 + meter, parts, labor (1809.00)
Total \$3,181.00

1" Tap \$1544.00 + meter

2" Tap \$2464.00 + meter

3" Tap \$3289.00 + meter

6" Tap \$5060.00 + meter

Water Meters

¾" Meter, riser, pit & lid, labor (1809.00) = \$3057.00.
1" Meter + = Will depend on cost

Water Meters

¾" Meter, riser, pit & lid, + (1809.00) = \$3181.00
1" Meter + = will depend on cost

*Anything 1" and over must be purchased and installed by applicant. Specifications set by the Dresden Board of Public Affairs.

****Trinway** ¾" Tap \$1472.00 + \$1709.00 this includes meter, riser, meter pit, meter lid, labor,
The customer is responsible for running line from meter into home. Total \$3,181.00

Sewer Capacity Fee

Grey Water \$650.00

Sewer Capacity Fee

Sewer Tap \$2500

Turn on Fee After Hours: \$50.00

Bulk Water will be .05 cents per gallon.

Appendix ~~2~~ ~~3~~ D

RATES EFFECTIVE 1 OCTOBER 2025

Village of Dresden Water and Sewer Rates Inside Village

<u>Usage</u>	<u>Water</u>	<u>WasteWater</u>	<u>Total</u>	<u>Water Fund</u>	<u>Storm Sewer</u>	<u>Total</u>
1000	\$ 15.54	\$ 34.86	\$ 50.40	\$ 4.00	\$ 2.00	\$ 56.40
2000	\$ 17.69	\$ 37.68	\$ 55.37	\$ 4.00	\$ 2.00	\$ 61.37
3000	\$ 19.84	\$ 40.49	\$ 60.33	\$ 4.00	\$ 2.00	\$ 66.33
4000	\$ 22.00	\$ 43.31	\$ 65.31	\$ 4.00	\$ 2.00	\$ 71.31
5000	\$ 24.15	\$ 46.12	\$ 70.27	\$ 4.00	\$ 2.00	\$ 76.27
6000	\$ 28.46	\$ 48.93	\$ 77.39	\$ 4.00	\$ 2.00	\$ 83.39
7000	\$ 30.61	\$ 51.75	\$ 82.36	\$ 4.00	\$ 2.00	\$ 88.36
8000	\$ 32.76	\$ 54.57	\$ 87.33	\$ 4.00	\$ 2.00	\$ 93.33
9000	\$ 34.91	\$ 57.39	\$ 92.30	\$ 4.00	\$ 2.00	\$ 98.30
10000	\$ 37.07	\$ 60.20	\$ 97.27	\$ 4.00	\$ 2.00	\$ 103.27
11000	\$ 39.22	\$ 63.02	\$ 102.24	\$ 4.00	\$ 2.00	\$ 108.24
12000	\$ 41.37	\$ 65.83	\$ 107.20	\$ 4.00	\$ 2.00	\$ 113.20
13000	\$ 43.52	\$ 68.65	\$ 112.17	\$ 4.00	\$ 2.00	\$ 118.17
14000	\$ 45.68	\$ 71.46	\$ 117.14	\$ 4.00	\$ 2.00	\$ 123.14
15000	\$ 47.83	\$ 74.28	\$ 122.11	\$ 4.00	\$ 2.00	\$ 128.11
16000	\$ 49.00	\$ 77.09	\$ 126.09	\$ 4.00	\$ 2.00	\$ 132.09
17000	\$ 98.00	\$ 79.87	\$ 177.87	\$ 4.00	\$ 2.00	\$ 183.87
18000	\$ 52.13	\$ 82.72	\$ 134.85	\$ 4.00	\$ 2.00	\$ 140.85
19000	\$ 54.28	\$ 85.39	\$ 139.67	\$ 4.00	\$ 2.00	\$ 145.67
20000	\$ 56.44	\$ 88.35	\$ 144.79	\$ 4.00	\$ 2.00	\$ 150.79
21000	\$ 58.59	\$ 91.17	\$ 149.76	\$ 4.00	\$ 2.00	\$ 155.76
22000	\$ 60.74	\$ 93.98	\$ 154.72	\$ 4.00	\$ 2.00	\$ 160.72
23000	\$ 62.89	\$ 96.80	\$ 159.69	\$ 4.00	\$ 2.00	\$ 165.69
24000	\$ 65.05	\$ 99.61	\$ 164.66	\$ 4.00	\$ 2.00	\$ 170.66
25000	\$ 67.20	\$ 102.43	\$ 169.63	\$ 4.00	\$ 2.00	\$ 175.63

Additional 1000 Water-\$ 2.15 Sewer-\$ 2.82

Appendix ~~DE~~ E

RATES EFFECTIVE 1 OCTOBER 2025

Village of Dresden Water and Sewer Rates
Outside Village
Oct-25

<u>Usage</u>	<u>Water</u>	<u>WasteWater</u>	<u>Total</u>	<u>Water Fund</u>	<u>Total</u>
1000	\$ 20.22	\$ 52.30	\$ 72.52	\$ 4.00	\$ 76.52
2000	\$ 23.04	\$ 56.55	\$ 79.59	\$ 4.00	\$ 83.59
3000	\$ 26.25	\$ 60.80	\$ 87.05	\$ 4.00	\$ 91.05
4000	\$ 29.46	\$ 65.06	\$ 94.52	\$ 4.00	\$ 98.52
5000	\$ 32.68	\$ 69.31	\$ 101.99	\$ 4.00	\$ 105.99
6000	\$ 35.89	\$ 73.56	\$ 109.45	\$ 4.00	\$ 113.45
7000	\$ 39.11	\$ 77.82	\$ 116.93	\$ 4.00	\$ 120.93
8000	\$ 42.32	\$ 82.07	\$ 124.39	\$ 4.00	\$ 128.39
9000	\$ 45.53	\$ 86.32	\$ 131.85	\$ 4.00	\$ 135.85
10000	\$ 48.74	\$ 90.57	\$ 139.31	\$ 4.00	\$ 143.31
11000	\$ 51.96	\$ 94.83	\$ 146.79	\$ 4.00	\$ 150.79
12000	\$ 55.17	\$ 99.08	\$ 154.25	\$ 4.00	\$ 158.25
13000	\$ 58.38	\$ 103.34	\$ 161.72	\$ 4.00	\$ 165.72
14000	\$ 61.60	\$ 107.59	\$ 169.19	\$ 4.00	\$ 173.19
15000	\$ 64.81	\$ 111.84	\$ 176.65	\$ 4.00	\$ 180.65
16000	\$ 68.02	\$ 116.10	\$ 184.12	\$ 4.00	\$ 188.12
17000	\$ 71.23	\$ 120.35	\$ 191.58	\$ 4.00	\$ 195.58
18000	\$ 74.45	\$ 124.60	\$ 199.05	\$ 4.00	\$ 203.05
19000	\$ 77.66	\$ 128.86	\$ 206.52	\$ 4.00	\$ 210.52
20000	\$ 80.88	\$ 133.11	\$ 213.99	\$ 4.00	\$ 217.99
21000	\$ 84.09	\$ 137.36	\$ 221.45	\$ 4.00	\$ 225.45
22000	\$ 87.30	\$ 141.62	\$ 228.92	\$ 4.00	\$ 232.92
23000	\$ 90.51	\$ 145.87	\$ 236.38	\$ 4.00	\$ 240.38
24000	\$ 93.73	\$ 150.12	\$ 243.85	\$ 4.00	\$ 247.85
25000	\$ 96.94	\$ 154.38	\$ 251.32	\$ 4.00	\$ 255.32

Additional 1000 W- \$ 3.21 WW-\$ 4.25

Wastewater increase from \$51.27 to \$52.30 2% Oct 2025

Appendix F

CHAPTER 2 SEWER SERVICE CHARGE AND SURCHARGE

PURPOSE

A sewage service charge shall be levied and collected from all residential, commercial institutions, governmental, and industrial establishments which are connected to the sewer system. The charges shall be equitably and equally divided among all users in proportion to water use and wastewater discharge and shall be adequate, in the aggregate, to provide sufficient funds for the operation, maintenance, debt service, and replacement expenses of the sewerage system.

GENERAL POLICY

An annual review of the sewer service charge system, sewer income and expenditures shall be made by Village officials. No building or establishment shall be permitted to use the sewerage system without paying an equitable share of all sewer system expenses.

SEWER SERVICE CHARGE

A sewage service charge and a sewer service surcharge is hereby established:

1. For any lot, parcel of land, building or premises situated within or without the Village and having any connection to the sanitary sewerage system or otherwise discharging sewerage, liquid wastes, water or other liquids, either directly or indirectly into the sewage system, and which lot, parcel of land, building or premises receives all of the water used in or on such lot, parcel of land, building or premises from the Dresden Water System, such sewerage charges or rentals shall be based upon the quantity of water used. The sewer service shall be in an amount equal to the charge per 1,000 gallons based on water meter readings for the water used or metered to the lot, parcel of land, building or premises, for operation maintenance and replacement.
2. In the event a lot, parcel of land, building or premises, discharging sewerage, liquid waste, water or other liquids into the Village sewerage system, either directly or indirectly, does not receive all of the water used in or on such lot, parcel of land, building or premises from the Dresden Water System and all of the water used thereon or therein is not measured by a Village water meter, or a meter acceptable to the Board, then, in each such case, the amount of water used which is not metered shall be otherwise measured or determined by the Board in order to establish the sewer service or rental charge. When the total amount of water used thereon is not metered, the Board shall use the following schedule for establishing the sewer usage:

TYPE OF USER	QUARTERLY FLOW (GALLONS)
Single Family Residence	31,500
One Bay Service Station	90,000
Two Bay Service Station	135,000
Self Service Station	135,000
Motel (Per Unit Room)	9,000
Restaurant (Per Seat)	12,600
Trailer Park (Per Space)	13,500

3. In all cases where the premises involved uses water purchased from the Village, which is metered separately and which is not discharged into the sanitary sewer system or which uses water provided by privately owned wells and which is not discharged into the sanitary sewer system, then, in such cases, the rates levied by this section shall not apply to such water. If a portion of the metered or unmetered water is discharged to the sanitary sewer, the Board may determine the amount of water so used for the purpose of calculating the sewer service charge or rental by such method as he may find practicable.

In every case when an existing or proposed user desires to discharge to the Village's sewerage system a waste of greater than the defined strength of normal sewage, the Board shall determine:

- a. To refuse to accept the waste for treatment; or
- b. Require pretreatment by the user to a strength of normal sewage; or
- c. To accept and treat the waste for the following stated surcharge

No provision of this section shall prohibit any special agreements with users, as may be determined to be desirable by the Village for purposes such as equalizing of flow, time of waste treatment, accepting special wastes, etc. All special agreements shall be governed by the provisions and rates as set forth in this section.

4. The sewer service surcharge shall be applied when either or both the total suspended solids and BOD of a water or waste accepted for admission to the Village sewage works exceeds the values of these constituents for normal sewage. The excess concentration in either or both, as the case may be, shall be evaluated volumetrically in terms of normal sewage and be subject to surcharge on the volume as derived in accordance with the following formula:

$$Cs = (Bc \times B + Sc \times S) Vu \times 8.345 \times .001$$

Cs = Surcharge in dollars

Bc = Unit cost for BOD in dollars per pound of BOD

B = Strength of BOD in wastewater in excess of normal domestic strength waste

Sc = Unit cost for suspended solids in dollars per pound of suspended solids

S = Strength of suspended solids in wastewater in excess of normal domestic strength waste

Vu = Total volume discharge by user in 1,000 of gallons

General assumption used and accepted by OEPA (40% of budget is for volume, 30% of budget is for BOD, and 30% of budget is for suspended solids).

WASTEWATER DISCHARGERS

It shall be unlawful for any significant industrial user to discharge sewage, industrial wastes or other wastes without a permit issued by the Authority to any sewer within the jurisdiction of the Authority and/or to the POTW if the industrial discharger has been determined to be a major significant industrial user by the Village or Ohio EPA.

New sources shall install and have in operating condition and shall "start up" all pollution control equipment required to meet applicable pretreatment standards before beginning to discharge.

Within the shortest feasible time (not to exceed 90 days), new sources must meet all applicable pretreatment standards.

MONITORING FACILITIES

Each (major significant industrial user) discharger shall provide and operate, at the discharger's own expense, a monitoring facility to allow inspection, sampling and flow measurement of each sewer discharge to the Authority. Each monitoring facility shall be situated on the discharger's premises, except where such a location would be impractical or cause undue hardship on the discharger, the Authority may concur with the facility being constructed in the public street or sidewalk area providing that the facility is located so that it will not be obstructed by landscaping or parked vehicles.

There shall be ample room in or near such sampling facility to allow accurate sampling and preparation of samples for analysis. The facility, sampling and measuring equipment shall be maintained at all times in a safe and proper operating condition at the expense of the discharger.

All monitoring facilities shall be constructed and specifications. Construction shall be completed within 120 days of receipt of permit by discharger.

OWNER RESPONSIBLE FOR MEASURING WASTES

The Owner shall be responsible for all measurements of flow of wastewater discharged to the sanitary sewer system, except where water meter readings are employed. The method of measurement shall be subject to the approval of the Board. The Village and the Board shall have access at all times to such measuring or metering facilities for the purpose of checking and determining the accuracy of such measuring devices.

Where a sewer service surcharge is applicable, the Owner shall be responsible for and perform all necessary analytical work. Analytical methods shall conform to the standard methods of Water and Sewage Analysis of the American Public Health Association, latest edition. Frequency of sampling and analysis as well as composition of samples shall be as required by the Board. Copies of analytical results shall be submitted monthly to the Board. The Village reserves the right to secure samples and check analysis of the waste and to adjust the surcharge accordingly if the Village analyses are materially different from the Owner's.

PAYMENT

The sewer service charge or rental provided in this chapter shall be payable at such times as water charges are payable for the respective premises for which the charge or rental is made. In cases where no water is furnished by the Dresden water system to the lot, parcel of land, building or premises a separate monthly bill for a sewer service charge or rental shall be made, the charge or rental shall be payable at such times as shall be determined by the Board.

The Board is authorized to make and enforce such bylaws and regulations as may be necessary for collection of sewer service charges or rentals provided by this chapter, including the power to shut off the water supply furnished by the Village to persons delinquent in the payment of such sewer service charges or rentals. In addition, the Board may certify unpaid sewer service charges to the County Auditor as a lien on the property or structure for which sewer service charges are unpaid.

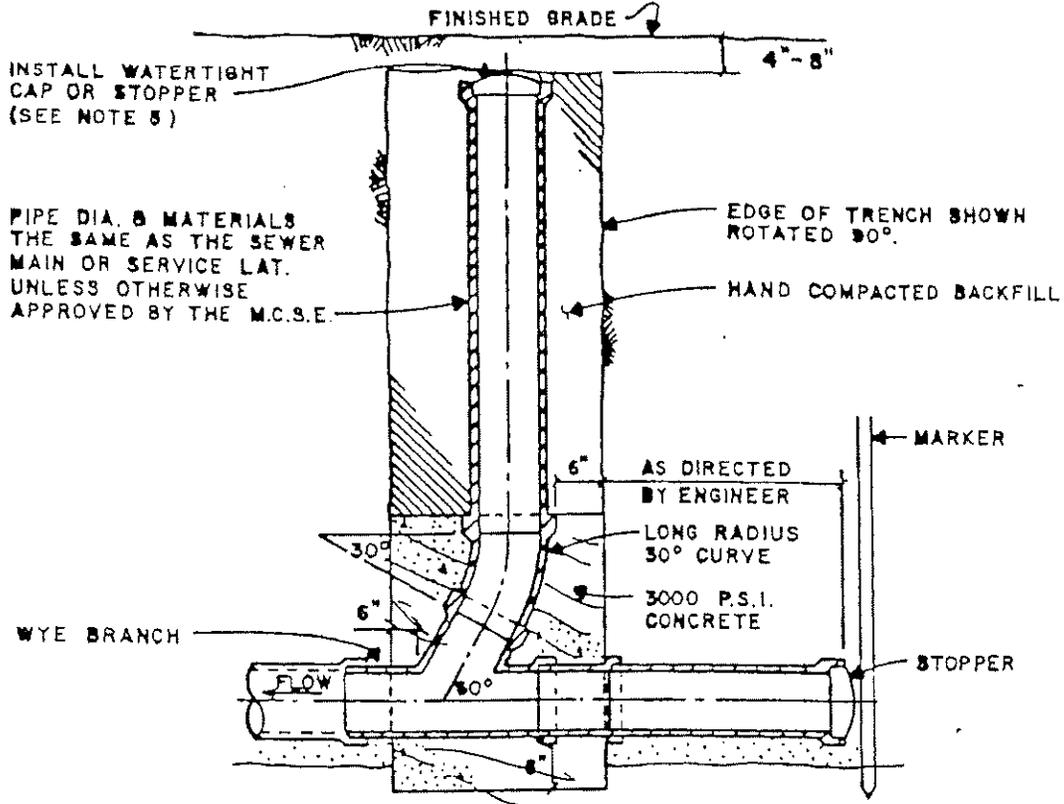
RIGHT OF APPEAL

Any discharger or any interested party shall have the right to request, in writing, an interpretation or ruling by the Authority on any matter covered by this chapter and shall be entitled to a

prompt written reply. In the event that such inquiry is by a discharger and deals with a wastewater discharge permit issued pursuant hereto for which enforcement activity relating to an alleged violation is subject, receipt of a discharger's request shall stay all enforcement proceedings pending receipt of the aforesaid written reply. Appeal of any final judicial order entered pursuant to this chapter may be taken in accordance with Local and State law.

STANDARD CLEAN-OUT

NO SCALE

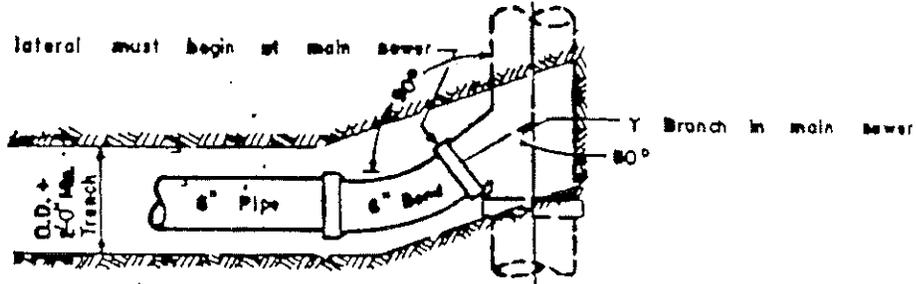


NOTES

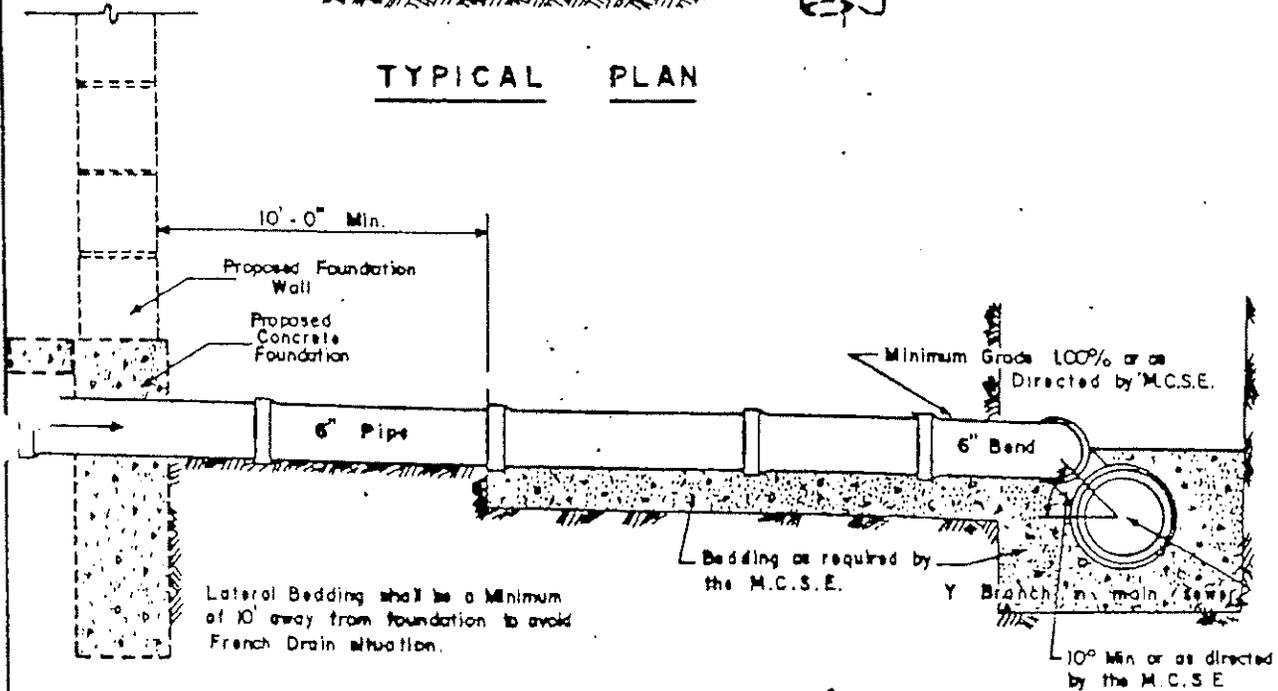
1. INSTALL AT LOCATION SHOWN ON THE DRAWINGS OR AS DIRECTED BY M.C.S.E.
2. ALL CLEAN-OUT PIPE & FITTINGS SHALL BE ACCEPTED BY THE M.C.S.E. PRIOR TO CONSTRUCTION.
3. SEWER MAINS & SERVICE LATERALS WITH CLEAN-OUTS SHALL CONFORM TO ALL REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS EXCEPT AS HEREIN MODIFIED.
4. PAYMENT FOR CLEAN-OUTS SHALL BE AT THE CONTRACT LUMP SUM PRICE FOR EACH STRUCTURE COMPLETED & ACCEPTED INCLUDING ALL MATERIALS & LABOR. PAYMENT SHALL BE IN ADDITION TO THE UNIT PRICE FOR THE LINE ON WHICH IT IS INSTALLED.
5. PROVIDE CAST IRON STOPPER, MODIFIED NON-METALIC STOPPER OR SPECIAL CONSTRUCTION APPROVED BY THE M.C.S.E. WHICH SHALL RENDER THE CLEAN-OUT TERMINUS DETECTABLE BY STANDARD MAGNETIC SUBSURFACE LOCATORS.

STANDARD DETAIL DWG. NO. 27
Muskingum County Sanitary Engineers
STANDARD CLEAN-OUT
APPROVED BY: <i>[Signature]</i> SANITARY ENGINEER
DATE 1-80

Construction of lateral must begin at main sewer



TYPICAL PLAN



TYPICAL SECTION OF LATERAL TRENCH

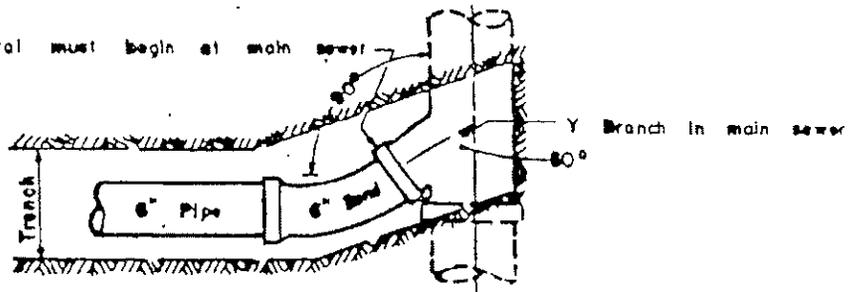
NOTE:

The sewer lateral connection shall be laid on a suitable foundation. If the material found at bottom of trench is not suitable for foundation, it shall be removed and replaced with suitable material (i.e.: gravel, slag or limestone) to the proper grade.

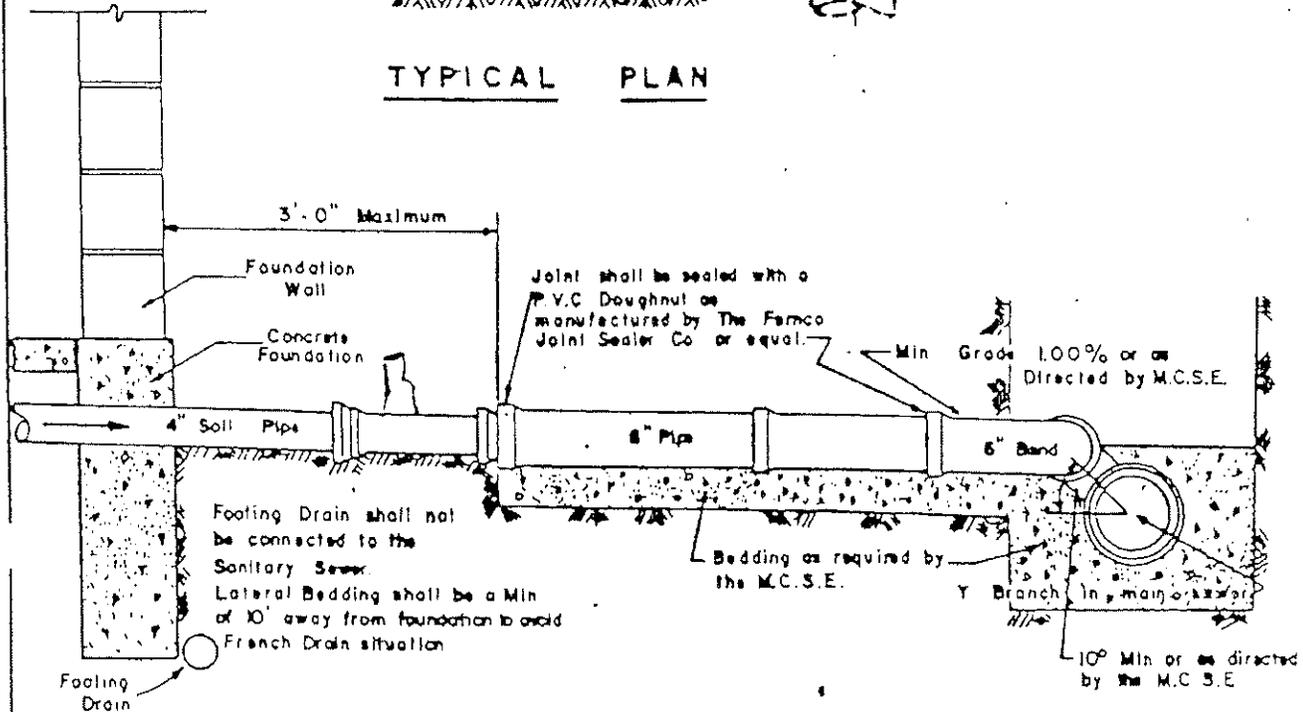
Note: 4 inch pipe is permitted for home service connections

STANDARD DETAIL DWG. NO.21B
NEW STRUCTURE
Muskingum County Sanitary Engineers
SANITARY SEWER LATERAL CONNECTION
APPROVED

Construction of lateral must begin at main sewer



TYPICAL PLAN



TYPICAL SECTION OF LATERAL TRENCH

NOTE:

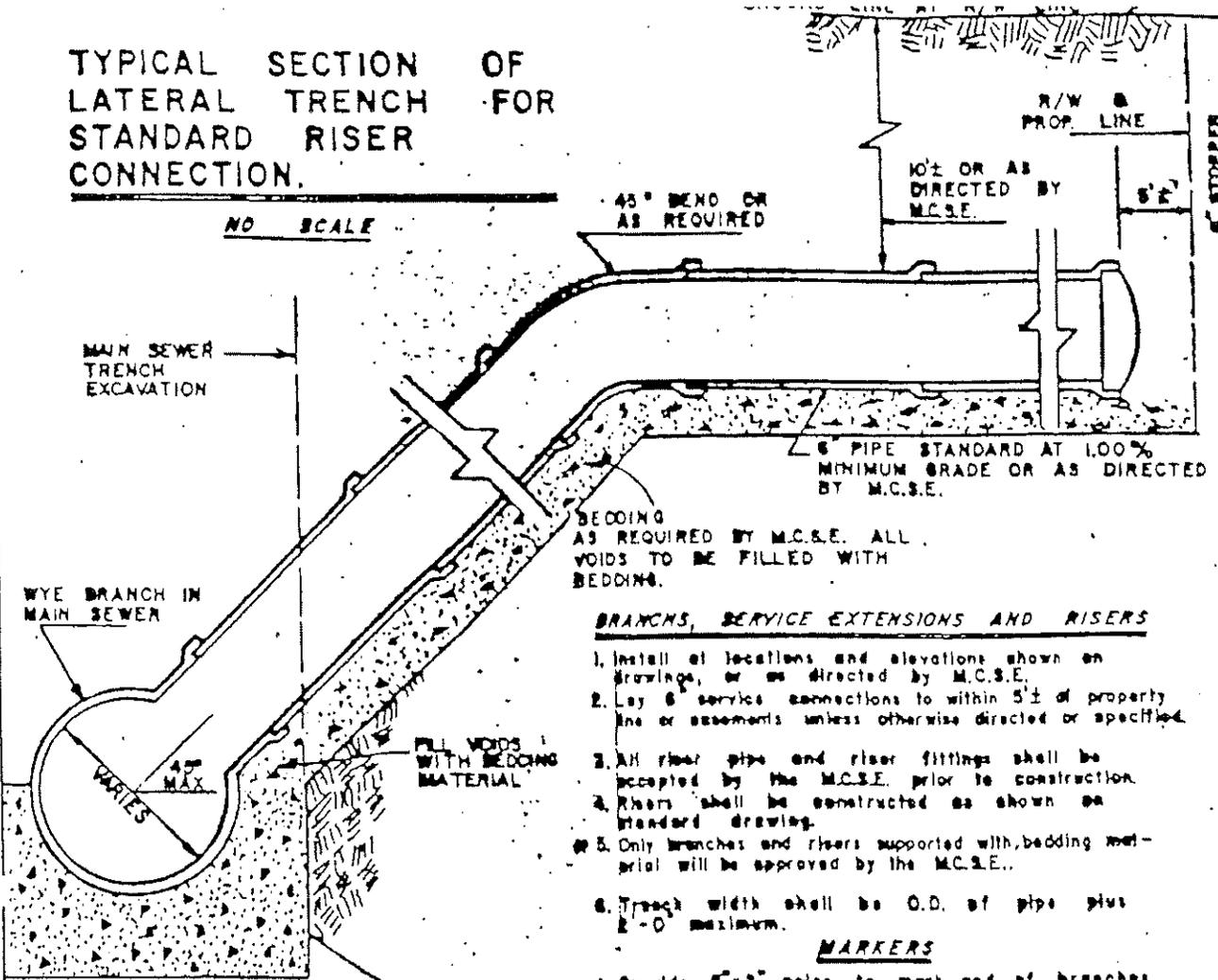
The sewer lateral connection shall be laid on a suitable foundation. If the material found at bottom of trench is not suitable for foundation it shall be removed and replaced with suitable material (i.e. gravel, slag or limestone) to the proper grade.

Note: 4 inch pipe is permitted for home service connections.

STANDARD DETAIL DWG. NO.21A
EXISTING STRUCTURE
Muskingum County Sanitary Engineers
SANITARY SEWER LATERAL CONNECTION
APPROVED BY: <i>[Signature]</i> SANITARY ENGINEER
DATE 1-80

TYPICAL SECTION OF LATERAL TRENCH FOR STANDARD RISER CONNECTION.

NO SCALE



DET. SECTION 918.03

45° BEND OR AS REQUIRED

10" OR AS DIRECTED BY M.C.S.E.

5'±

6" PIPE STANDARD AT 1.00% MINIMUM GRADE OR AS DIRECTED BY M.C.S.E.

BEDDING AS REQUIRED BY M.C.S.E. ALL VOIDS TO BE FILLED WITH BEDDING.

MAIN SEWER TRENCH EXCAVATION

WYE BRANCH IN MAIN SEWER

4" MAX

FILL VOIDS WITH BEDDING MATERIAL

STANDARD BEDDING AS REQUIRED BY M.C.S.E.

BRANCHES, SERVICE EXTENSIONS AND RISERS

1. Install at locations and elevations shown on drawings, or as directed by M.C.S.E.
2. Lay 6" service connections to within 5'± of property line or easements unless otherwise directed or specified.
3. All riser pipe and riser fittings shall be accepted by the M.C.S.E. prior to construction.
4. Risers shall be constructed as shown on standard drawing.
5. Only branches and risers supported with bedding material will be approved by the M.C.S.E..
6. Trench width shall be O.D. of pipe plus 2'-0" maximum.

MARKERS

1. Provide 2"x2" poles to mark end of branches, service connections and risers for future location.
2. Extend pole from bell to 12" above ground surface during construction.
3. Rest poles against bell but not on it.
4. Support poles in vertical position during backfill.
5. Cut 2"x2" poles 12" below ground level after construction. (Poles to be of rough cut lumber)

BEDDING NOTE

* The sewer lateral connection shall be laid on a 6" Class I bedding. If the material found at bottom of trench is not suitable for foundation it shall be removed and replaced with suitable material (i.e. gravel, slag or limestone) to the proper grade.

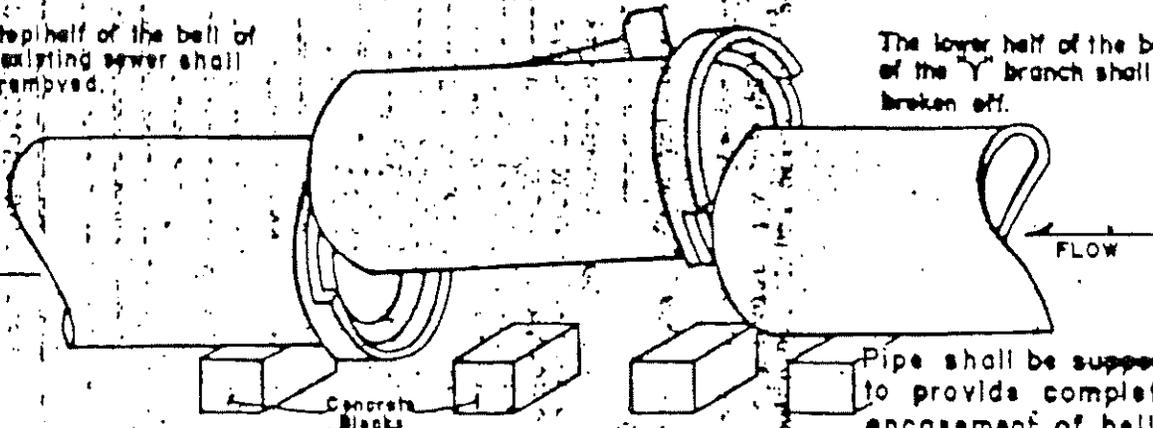
STANDARD DETAIL DWG. No. 13-A
Muskingum County Sanitary Engineers
RISERS FOR SANITARY SEWERS
APPROVED BY:

SANITARY ENGINEER
1-80

The new Y branch shall be placed with the Y on the opposite side of the sewer from the proposed lateral.

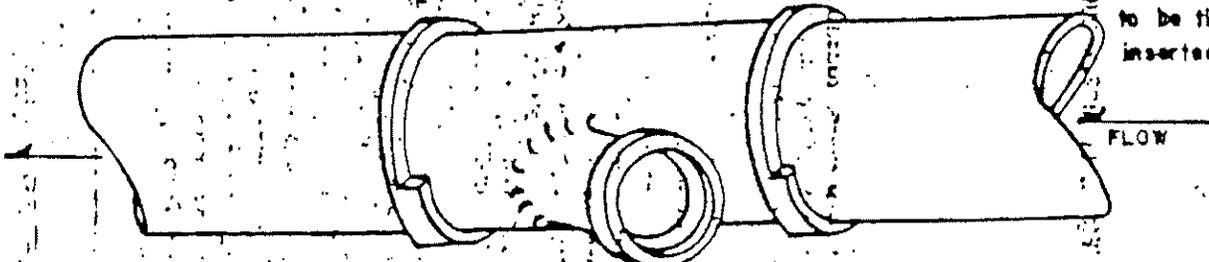
The top half of the bell of the existing sewer shall be removed.

The lower half of the bell of the Y branch shall be broken off.

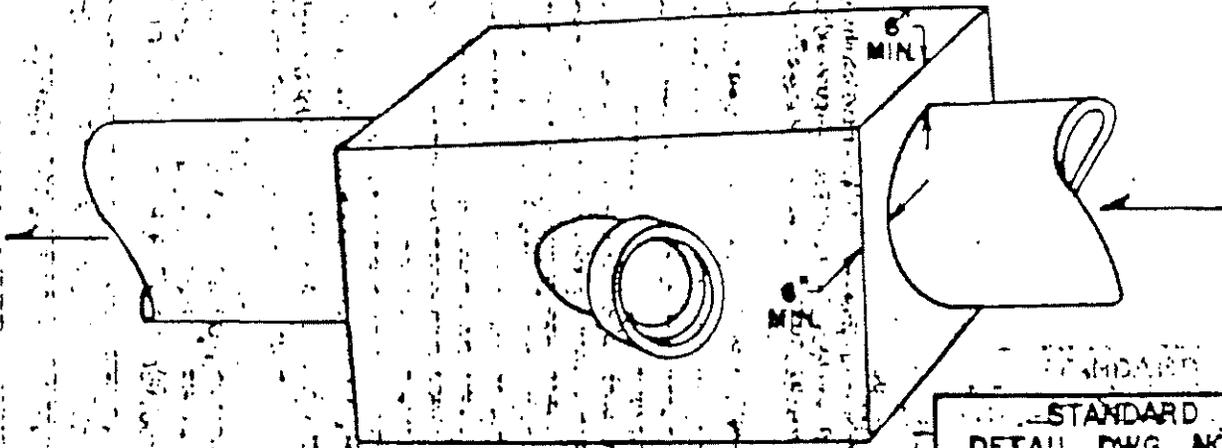


The Y branch shall be rotated to bring the Y into the correct position for the proposed lateral.

Pipe shall be supported to provide complete encasement of bells. Existing sewer to be cut to proper length for new wye to be tightly inserted.



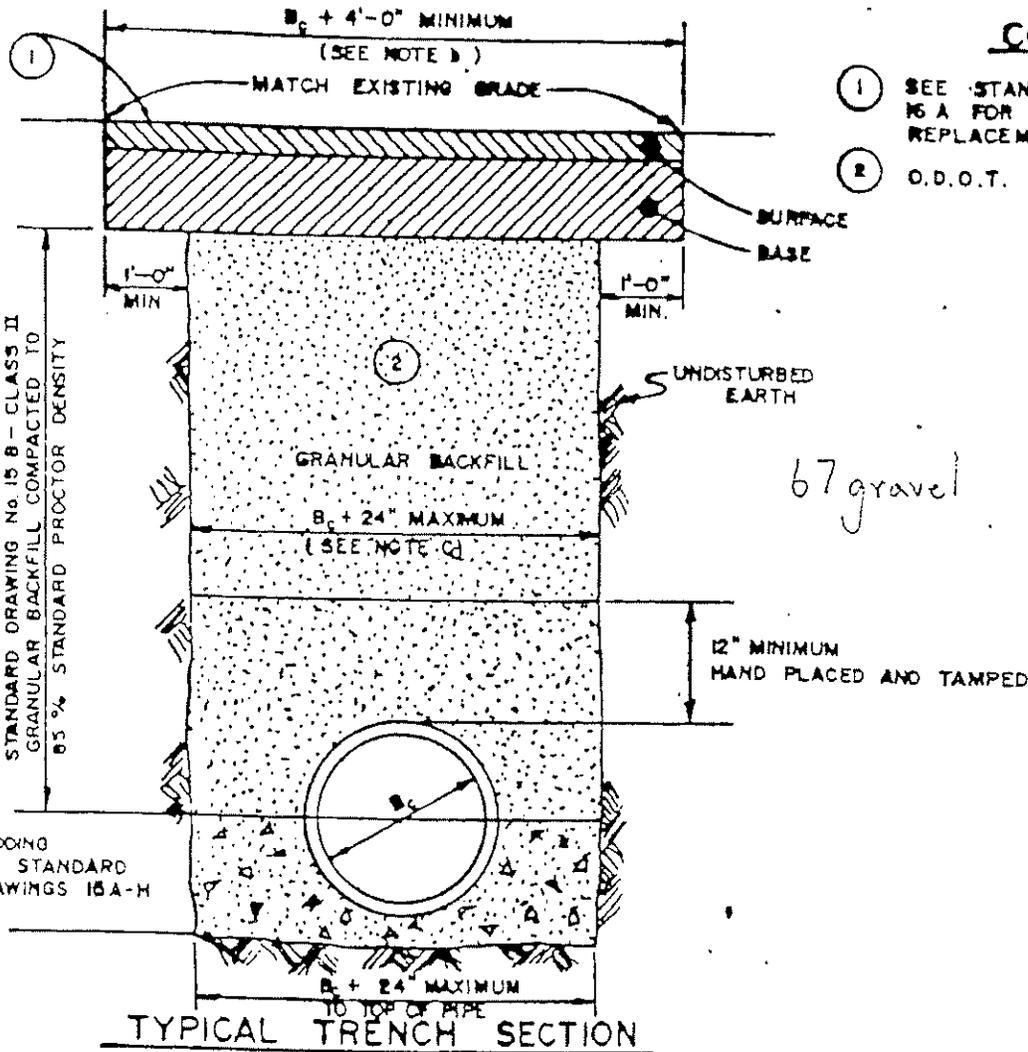
The good portion of the bell of each pipe shall be under the joint and joint packed with oakum or equal prior to placing Concrete Encasement.



ENCASEMENT TO INCLUDE LENGTH OF PIPE, BOTH BELLS PLUS 12"

NOTE: LARGER PIPE SIZES WILL REQUIRE MORE THAN 6" OF CONCRETE TO COMPLETELY ENCASE THE BELL.

STANDARD
DETAIL DWG. NO. 14
Muskingum County Sanitary Engineers
WYE INSTALLATION ON EX. SAN. SEWER
APPROVED BY: <i>[Signature]</i> SANITARY ENGINEER



CODE

- ① SEE STANDARD DRAWING 16 A FOR TYPICAL PAVEMENT REPLACEMENT
- ② O.D.O.T. 310.02 A

67 gravel

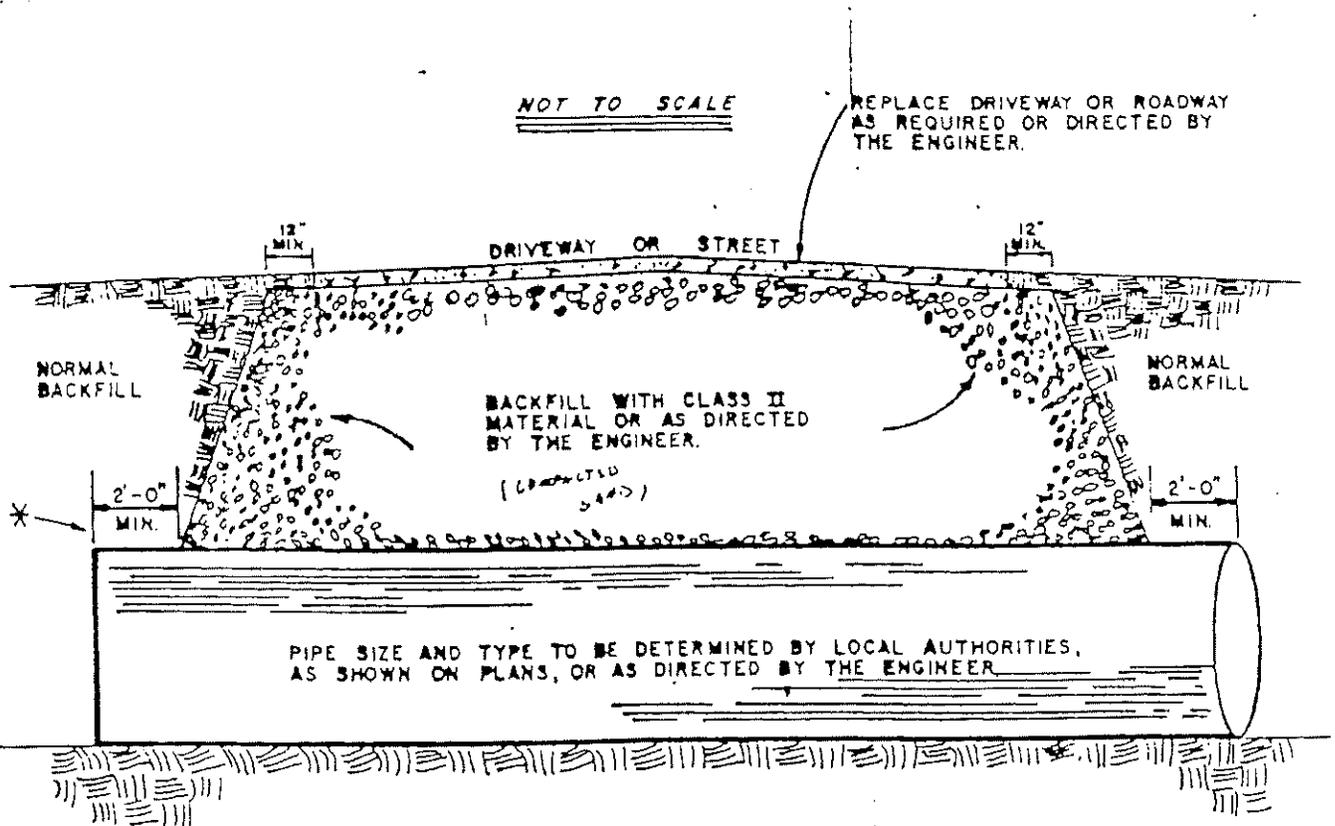
TYPICAL TRENCH SECTION

NOTE:

- 1) THIS DETAIL APPLIES ONLY WHEN ASPHALT-PAVED STREETS OR DRIVEWAYS ARE CROSSED BY SEWERS INSTALLED BY THE OPEN-CUT METHOD. WHERE OTHER TYPES OF STREETS OR DRIVEWAYS ARE CROSSED BY SAID SEWERS, IT SHALL BE UNDERSTOOD THAT THE EXISTING ROADWAY SURFACE SHALL BE REPLACED WITH NEW MATERIAL AS SHOWN ON DRAWING 16 A, OR AS DIRECTED BY THE MUSKINGUM COUNTY SANITARY ENGINEER.
- 2) ON PUBLIC PROJECTS, THE AMOUNT OF PAVEMENT OR PAVED DRIVEWAY REPLACEMENT TO BE PAID FOR SHALL BE LIMITED TO $B_c + 4'-0"$, UNLESS OTHERWISE APPROVED BY THE M.C.S.E.
- 3) ON PUBLIC PROJECTS, THE AMOUNT OF GRANULAR BACKFILL TO BE PAID FOR SHALL BE LIMITED TO $B_c + 2'-0"$ UNLESS OTHERWISE APPROVED BY THE M.C.S.E.

STANDARD DETAIL DWG. NO. 16
Muskingum County Sanitary Engineers
DRIVE OR STREET CROSSING DETAIL
APPROVED BY: <i>[Signature]</i>

TYPICAL SECTION FOR CULVERT PIPE REPLACEMENT OR NEW INSTALLATION



NOT TO SCALE

REPLACE DRIVEWAY OR ROADWAY AS REQUIRED OR DIRECTED BY THE ENGINEER.

NORMAL BACKFILL

BACKFILL WITH CLASS II MATERIAL OR AS DIRECTED BY THE ENGINEER.

NORMAL BACKFILL

2'-0" MIN.

2'-0" MIN.

PIPE SIZE AND TYPE TO BE DETERMINED BY LOCAL AUTHORITIES, AS SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.

GRADE TO MATCH EXISTING OR REVAMPED DITCH AS DIRECTED BY THE ENGINEER

* NOTE: Pipe Shall Extend A Minimum Of 2'-0" Beyond Toe Of Slope But In No Case Shall Be Less Than 12'-0" In Length

STANDARD
DETAIL DWG. No. 26

Muskingum County
Sanitary Engineers

TYPICAL SECTION
CULVERT PIPE

APPROVED

AIR TEST REQUIREMENTS

The requirements for air testing are listed below. The procedure is similar to ASTM C 828-80. The other instructions with regard to safety and purpose are not listed here but should be reviewed.

Procedure for air testing home service connections:

1. Determine the test time for the home service connection using the formula below. If the test time is less than 2 minutes, the test shall be conducted for 2 minutes.
2. Plug the pipe with air plugs isolating the home service connection between the installed tees. It is important to properly install the plugs. The plugs are a dangerous projectile if not handled properly.
3. Add internal pressure until a pressure of 4.0 psig is reached. After the pressure is reached, allow the pressure to stabilize. This may take up to 5 minutes normally. The pressure may reduce to 3.5 psig before testing may begin.
4. During the test, if the pressure loss is greater than 1.0 psig during the test time, the home service connection shall fail. If the pressure loss is less than 1.0 psig, then the home service connection shall pass the infiltration requirements.

The following symbols shall be used in the formula below:

- D = pipe diameter in inches
K = 0.371×10^{-3} or 0.000371
L = length of home service connection in feet
Q = air loss in cubic feet per minute, for 4 or 6 inch pipe, Q = 2
T = time pressure may drop up to 1 psig in minutes

The formula is:

$$T = K \times \frac{D^2 \times L}{Q}$$

(4LBS/4MIN)

WATER TEST

The following requirements shall define the minimum standard for a successful water test of a home service connection.

PROCEDURE

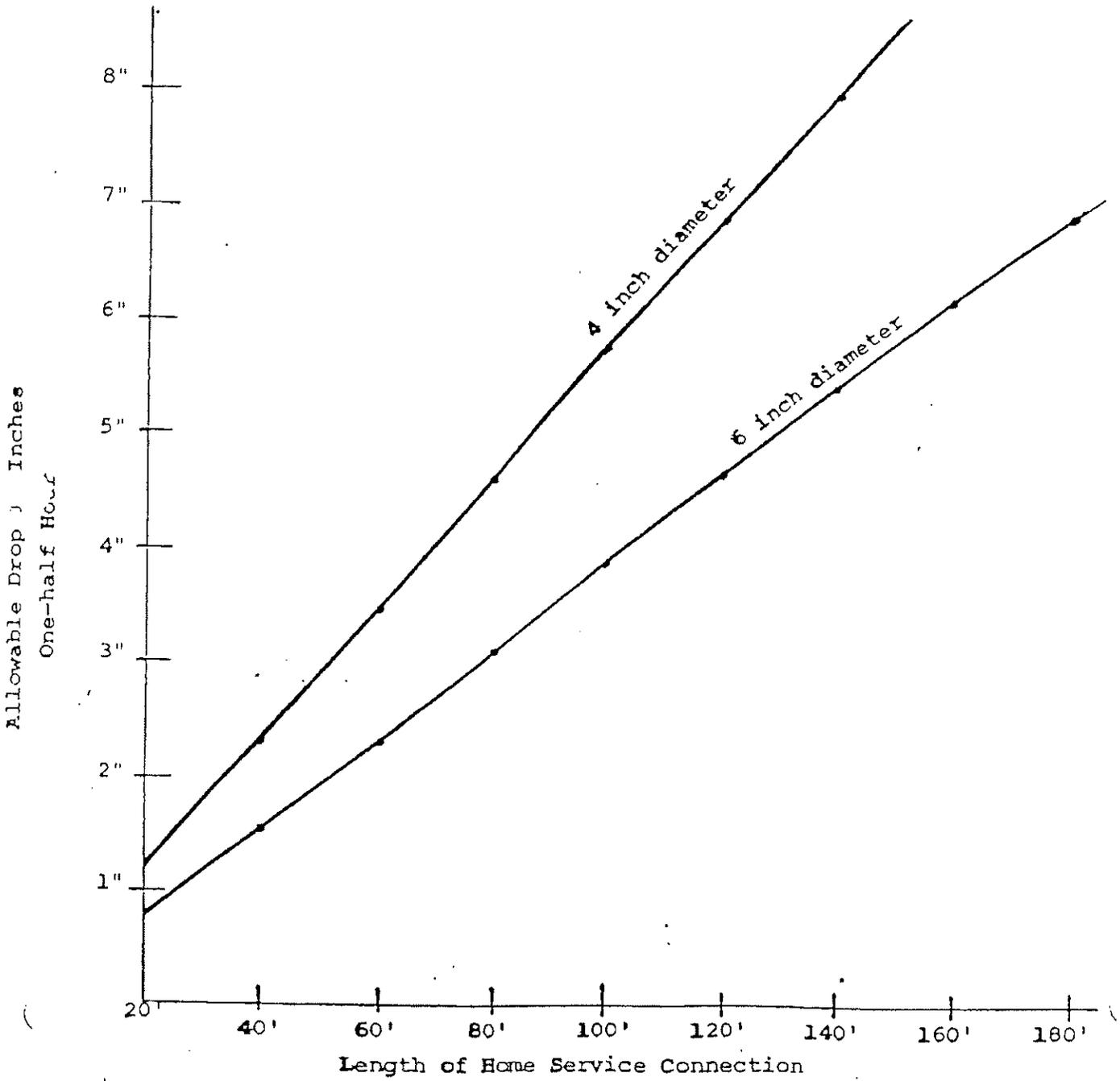
A water tight plug shall be inserted in the upstream side of the cleanout tee at both ends of the installed home service connection.

A stack measuring ten (10) vertical feet shall be inserted or attached to the top of the tee such that water poured into the stack shall enter the home service connection. The water shall be poured to the top of the stack. At the end of one half hour after filling the pipe, the level of the water remaining in the stack will be measured from the top of the ten (10) foot vertical level.

The length of the home service connection and the above mentioned measurement shall determine a point on the graph on the following page. The lines marked four (4) feet and six (6) feet denote pipe size of the home service connection. If the point determined by the horizontal and vertical scales of the chart falls below the designated line for the home service connection pipe, the test is passed. If the point falls above the line, the home service connection fails the test.

The licensed contractor shall be required by his license to make the home service connection pass the selected air or water test.

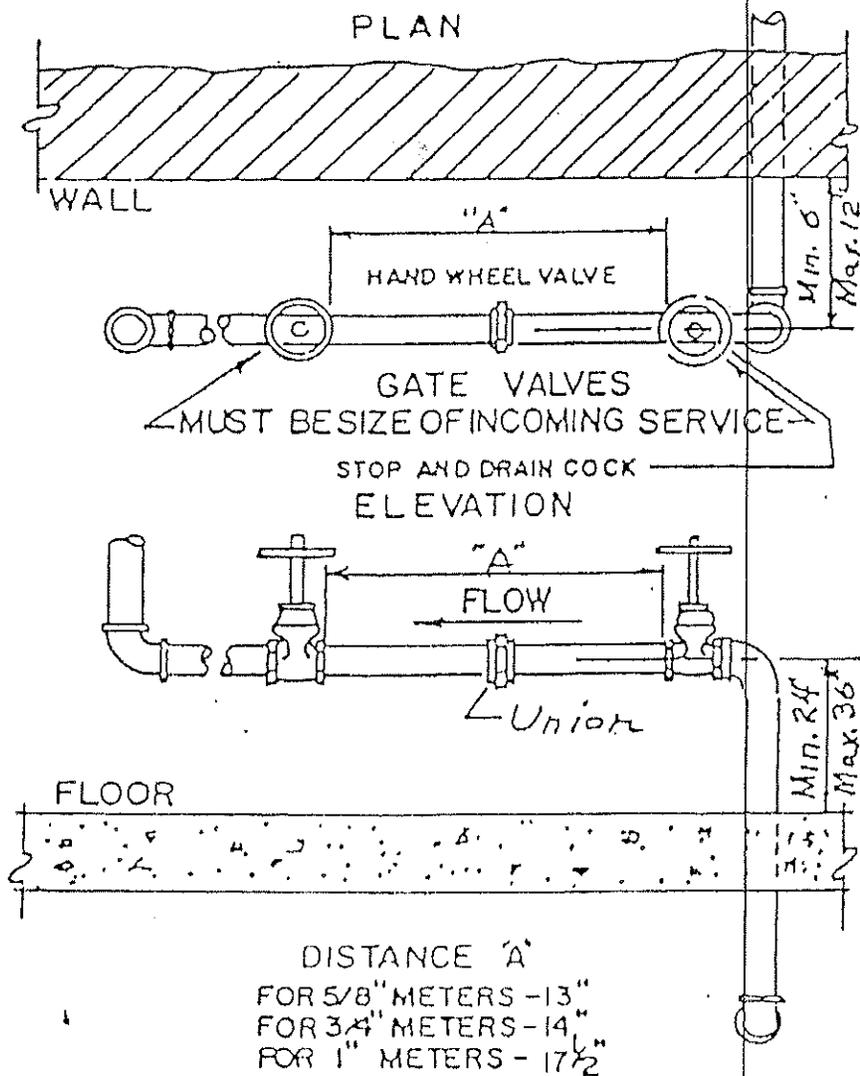
Muskingum County Sanitary Engineering Department
Water test chart for home service connections



APPENDIX G

APPROVED INSIDE SETTING
FOR 5/8" 3/4" & 1" METERS

PLAN



ALL VALVES TO BE INSTALLED
BY OWNER OR AGENT.