



Oregon

Kate Brown, Governor

Department of Environmental Quality

Northwest Region Portland Office/Water Quality

700 NE Multnomah Street, Suite 600

Portland, OR 97232

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TTY 711

July 8, 2022

ANDY PETERS
PUBLIC WORKS DIRECTOR
PO BOX 248
MOLALLA, OR 97038

RE: City of Molalla STP
File No: 57613 / Permit No: 101514
Clackamas County

Cascade Place Apartments Sanitary Sewer Approval

Dear Mr. Peters:

The Oregon Department of Environmental Quality (DEQ) has approved sanitary sewer installation plans for the above project. Lawrence Pankey PE (AKS Engineering & Forestry LLC) submitted plans and specifications June 22nd for the City of Molalla (City), per Oregon Administrative Rule (OAR) Chapter 340, Division 052. A Land Use Compatibility Statement was approved by the City of Molalla and submitted with the project. A positive statement of capacity in the City's sewer was included. A project description and DEQ's conditions of approval are listed below. A review fee of \$268 was included in the submission.

DESCRIPTION:

- Tapping into two existing 8-inch stub on State Highway 211;
- 1 standard 48-inch manhole;
- 288 LF of 8-inch diameter, ASTM D-3034 SDR-35 PVC sanitary sewer main;
- 45 LF of 6-inch ASTM D-3034 SDR-35 PVC pipe for service laterals to 2 dwelling units with cleanouts at the property line;
- The sewer service will serve 214 dwelling units.

The sanitary sewer load from this development is almost an additional 6% of hydraulic load to the City's wastewater treatment plant. The City's efforts to reduce infiltration and inflow (I/I) as presented in the 2021 I/I Report and the April 19th, 2022 "WWTP Performance Evaluation" Memorandum prepared by Dyer Partnership have proved effective. Average dry weather flows, average wet weather and peak flows are almost half what they were in 2018. The City's continues to address I/I aggressively. The successful I/I reduction effort allows DEQ to approve the additional connections with confidence that the additional load will not result in difficulty in meeting NPDES permit limits.

CONDITIONS OF APPROVAL

1. **The water main outer diameter must be at least 5-feet from the outer diameter of the sanitary sewer line. There will be more than 5-feet separation between them, center to center.**
2. Construction shall be inspected and certified in writing by the design engineer, Lawrence Pankey PE per OAR 340-052. Please use the attached "Inspection and Certification of Proper Construction" and "Manhole Testing" forms to certify the project.
3. The City shall not allow any sewer construction to be performed, except under active inspection. Sanitary taps to existing sewers must be inspected and approved by qualified City staff. Only APWA approved materials and methods shall be used.
4. All sanitary sewer materials, construction, and testing shall comply with the American Public Works Association (APWA), Oregon Chapter, Year-2021 and subsequent revisions (Part RD300 of Oregon Standard Drawings and Part 00400 of Oregon Standard Specifications for Construction 2021), and with the City of Molalla Construction Standards. *The more stringent requirements shall apply in each situation.* A copy of both APWA and City construction standards shall be kept at the construction site for reference at all times.
5. The PVC **sanitary sewer** main shall be **air tested** per APWA Part 00445.72, and **deflection tested** per Part 00445.73. A **TV acceptance inspection** is required for the newly constructed sanitary sewer, per APWA Part 00445.74.

CITY OF MOLALLA RESPONSIBILITIES

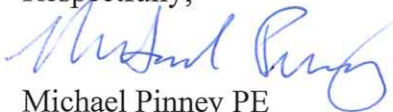
The City shall comply with these approval conditions and shall ensure that the following additional requirements are met:

1. Provide timely submittal of the engineer's certification;
2. Observe water quality regulations for all aspects of the project;
3. **Ensure that a 1200-C erosion control permit** is obtained, if applicable, when the project disturbs **one-acre** or more when all construction phases are considered;
4. Verify that all contractors install effective erosion controls; and
5. Verify that contractors and municipal staff adhere to ODEQ guidelines and procedures for proper flushing of water lines. See State dechlorination requirements at:
<http://www.deq.state.or.us/wq/pubs/bmps/chlorwaterdisp.pdf>.

This plan approval is valid for one year. If construction has not commenced within one year, plans must be resubmitted along with the appropriate fee for approval, unless waived by the Department.

INQUIRIES: Please contact me at (971) 227-1765 for additional information.

Respectfully,



Michael Pinney PE
Senior Environmental Engineer NWR-WQ

Enclosures:

(1) "Inspection and Certification of Proper Construction";(2) "Manhole Test Record" (3) "Figure A-1 – Separation of Parallel Water Lines"

CC (with): Lawrence Pankey PE, AKS Engineering & Forestry LLC, 12965 SW Herman Rd., Tualatin OR 97062

eCC (w/o):Angela Rowland, Acting Manager, Source Control Section, NWR-WQ



State of Oregon
Department of
Environmental
Quality

INSPECTION AND CERTIFICATION OF PROPER CONSTRUCTION

TO (check appropriate box):

- Jonathan Gasik, MS, PE – 221 Stewart Ave., Suite 201, Medford, OR 97501
- Tim Caire, PE – 165 East 7th Ave., Suite 100, Eugene, OR 97401
- Timothy C. McFetridge, PE – 4026 Fairview Industrial Dr., Salem, OR. 97302.
- Michael Pinney, PE – 700 NE Multnomah Ave. Suite 600, Portland OR. 97232

Project Name: _____

Project Location: _____

I was the design engineer on the above-referenced project and I, or my authorized representative, did supervise and inspect the construction. I certify that such construction was inspected and found to be in accordance with the plans and specifications, including any changes therein approved by the Department of Environmental Quality.

Design Engineer's Signature

Supplemental inspections were made by: _____

Cc: Sewer system owner

OREGON ADMINISTRATIVE RULES 340-052-0040

Responsibility of Treatment Works Owners, Design Engineers and Developers After Approval of Plans for (Domestic) Sewage Projects

(1) Construction of all projects must be in accordance with the project plans and specifications approved by the Department. No substantial change in or deviation from such plans and specifications shall be made without the prior written approval of the Department, which shall make the final determination whether or not a change or deviation is in fact substantial.

(2) The owner of the sewerage system (generally a municipality) as recipient of any construction work on its system has a vested responsibility to review and approve project plans prior to the start of construction. Department approval of plans under these rules does not preclude the right and responsibility of review and approval by the owner. The owner may adopt more stringent construction standards and impose special conditions for sewer use, service connection, and related activities. Department approval of plans in such cases is contingent upon similar approval by the owner. Submittal of plans to the Department through the owner and prior approval of plans by the owner is encouraged.

(3) Inspection and certification of proper construction shall be governed by the following provisions:

(a) The construction of all sewerage projects shall be under the supervision of and shall be thoroughly inspected by the design engineer or his authorized representative, unless relieved under subsection (b) of this section. At the completion of the project, he shall certify in writing to the owner and the Department that such construction was inspected by him and found to be in accordance with the plans and specifications, including any changes therein approved by the Department. Nothing in the foregoing exempts an owner from monitoring the project for conformance to requirements and performing supplementary inspections or prevents an owner's qualified staff from assuming responsibility for inspection and certification;

(b) If the design engineer is to have no further involvement or have limited involvement with the project after obtaining Department approval of plans, he must so notify the Department, the owner, and the developer upon submittal of plans or immediately upon being disassociated or limited in control over materials or workmanship within the project. (Nothing precludes either the owner or the developer from giving such notice if this is more appropriate). Thereupon, if the project is to continue on to construction, the owner shall assume necessary responsibility for satisfactory construction of the project in accordance with the approved plans. He shall employ or apply such construction engineering/inspection services as appropriate for the project. The owner shall thereupon certify in accordance with subsection (a) of this section. No project shall proceed to construction without adequate and capable construction engineering/inspection services. (This assumption of construction engineering/inspection services responsibility by the owner does not necessarily relieve the design engineer of design responsibility);

(c) Sewerage system integrity and watertightness is the system owner's ultimate responsibility. He shall monitor all private sewer construction and control all common sewer construction in the sewerage system to the extent necessary to this end.

(4) An appropriate final operation and maintenance manual, approved by the Department shall be prepared and submitted to the owner by the design engineer for all treatment works, disposal systems, and list stations prior to start up of such facilities.

Stat. Auth.: ORS 454.626, ORS 454.780 & ORS 468.020

Stats. Implemented: ORS 468B.055

Hist.: DEQ 3-1981, f. & ef. 2-6-81; DEQ 27-1994, f. & cert. ef. 11-15-94

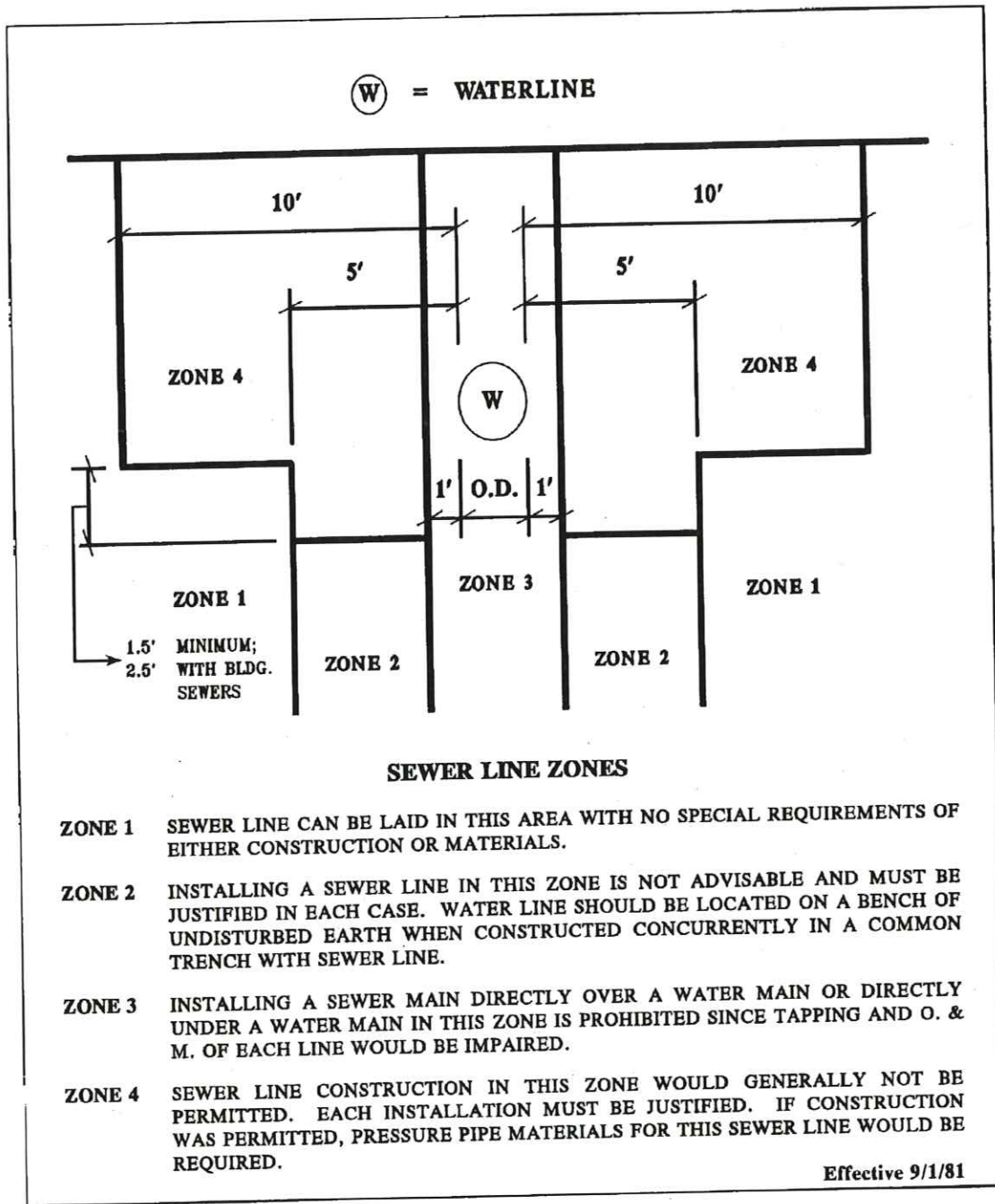


FIGURE A-1
SEPARATION OF PARALLEL WATER-SEWER LINES

ATTACHMENT B

MANHOLE TEST RECORD

Project: _____

Project No. _____

Contractor: _____

Testing Company: _____

Witnessed By: _____ (Inspector)

| Date | MH No. | Paved? (P or U) | MH Depth | VACUUM | | | | HYDROSTATIC | | | | | COMMENTS | | |
|------|--------|--------------------|----------|----------|-----------|------------|----------|-------------|----------|------------|---------------|------------|----------|-----------|--|
| | | | | MH Diam. | Time Req. | Vac. Start | Vac. End | Time Start | Time End | Total Time | Volume Change | Loss (gph) | | PASS FAIL | |
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NOTE:

All Adjacent surface restoration will be completed before conducting a sanitary manhole acceptance test, including finish paving and final adjustment to grade. Any test conducted beforehand shall be considered informal and will not count for acceptance.

Vacuum test will be conducted in accordance with latest applicable standards, such as established procedures based on ASTM C1244-93, starting at 10" Hg of vacuum. Vacuum tests will be conducted in accordance with latest applicable standards, such as those listed under APWA 306.3.03B, Vacuum Testing.

Hydrostatic test will be conducted in accordance with the 1990 Oregon APWA standards Specifications for Sanitary Sewer Construction, Section 306.03. Manholes shall be filled to a mark on the iron frame at the start of the test, or to the rim of the frame.

