

---

---

City of Sumner  
Public Works Department

# **STANDARD NOTES**

## **TABLE OF CONTENTS**

**GENERAL NOTES**

**SEWER NOTES**

**WATER SYSTEM NOTES**

**STREET NOTES**

**TESC NOTES**

**STORMWATER NOTES**

## GENERAL NOTES

1. All material and workmanship shall conform to the most recent WSDOT *Standard Specifications for Road, Bridge, and Municipal Construction* and the City of Sumner *Development Specifications*. In case of conflict, the *City Development Specifications and Standard Details* take precedence.
2. Prior to any work commencing, the Contractor shall attend a preconstruction meeting to be attended by all major contractors, representatives of involved utilities, and the City of Sumner. Call (253) 299-5700 to schedule a meeting at least two (2) working days in advance.
3. Site owner is to obtain all permits required from the state to include but not to be limited to the NPDES Stormwater General Permit.
4. The Contractor shall notify the county and/or state, and obtain all necessary permits and approvals if construction is to take place in county and/or state right-of-way.
5. All work within the City right-of-way shall be conducted by a licensed, bonded, and insured contractor. The Contractor shall be required to submit a Street Obstruction Notification Form, including a Traffic Control Plan in conformance with the *Manual on Uniform Traffic Control Devices* and WSDOT Specification Section 1-10, to the Public Works Department for review and approval a minimum of two (2) full working days prior to street obstruction. Note that the day the Street Obstruction Notification Form is submitted to the City shall not count as one of the two days. A new form will be required if the time, date, or location of the proposed obstruction changes from that reported on the original form. Certified copies of the Contractor's business license and insurance policy shall be submitted to the Public Works Department before permit issuance.
6. Any structure and/or obstruction that need to be removed or relocated as a result of this project shall be done so at the Developer's expense.
7. Any disturbance or damage to critical areas and associated buffers shall be mitigated in accordance with a Mitigation Plan approved by the Sumner Community Development Department. The preparation and implementation of the Mitigation Plan shall be at the Developer's expense.
8. All manholes and catch basins shall be covered with temporary covers to prevent entrance of dirt and debris during construction.
9. Buried utilities are shown in the approximate location. The Contractor shall locate all utilities prior to any construction. Call 1-800-424-5555 for "One Call Locates."
10. Any revisions made to these plans must be reviewed and approved by the Engineer of Record and the City Public Works Department prior to implementation in the field.
11. Traffic control shall be maintained by the Contractor. Construction signs, cones, barricades, and flaggers shall be employed as specified on the approved Traffic Control Plans or as required by the Public Works Department.

12. An approved copy of these plans with revisions must be on site whenever construction work is in progress.
13. The Public Works Department requires the Contractor to provide adequate horizontal and vertical control at all times on site for periodic spot checks by City personnel. This control will consist of front-property corner offsets (20 feet) staked perpendicular to the road centerline. All curve radius points will be staked.
14. Private utility easements are required on the front 10 feet of each lot.
15. If workers enter any trench or other excavation, four (4) feet or more in depth, that does not meet the open pit requirements of WSDOT Section 2-09.3, the trench/excavation shall be shored and cribbed. The Contractor alone shall be responsible for worker safety. All trench safety systems shall meet the requirements of the Washington Industrial Safety and Health Act, Chapter 49 17 RCW.
16. East Pierce Fire and Rescue shall be notified immediately of all gas line breaks.
17. Construction hours are Monday through Friday, 7:00 a.m. to 6:00 p.m., and Saturday, Sunday, and holidays, 10:00 a.m. to 6:00 p.m.. Work conducted outside these hours shall be approved by the Community Development Department a minimum of two (2) working days in advance. The day of submittal shall not be counted as one of the two required days. All City personnel overtime inspection fees shall be paid by the Contractor.
18. Before completion of the project, the Contractor shall obtain a "punch list" prepared by the Public Works Department detailing remaining items of work to be completed. All items of work listed shall be satisfactorily completed prior to acceptance of the water system and provision of sanitary sewer service.
19. Record Drawings will be submitted to the City before Final Acceptance.
20. No construction work shall begin until the Owner/Developer has acquired all required right-of-way and/or easements, and has provided the Public Works Department with copies of the recorded documents.

## SEWER SYSTEM NOTES

1. All workmanship and materials shall be in accordance with the City of Sumner *Development Specifications and Standard Details* and the most current copy of the WSDOT *Standard Specifications for Road, Bridge, and Municipal Construction*.
2. All approvals and permits required by the City of Sumner shall be obtained by the Contractor prior to the start of construction.
3. The City of Sumner Public Works Department shall be notified a minimum of 48 hours in advance of a tap connection to an existing main. A Public Works Department representative shall be present at the time of the tap.
4. All plastic pipe and services shall be installed with continuous tracer tape installed 12 to 18 inches under the proposed finished subgrade. The marker shall be plastic nonbiodegradable, metal core, or backing marked "SEWER," which can be detected by a standard metal detector. In addition, STEP systems, grinder systems, gravity service laterals, and force mains shall be installed with 12-gauge direct-bury rated copper wire wrapped around all plastic pipe and brought up and tied off at the valve body. Tape shall be Terra Tape "D" or approved equal. The tape and wire shall be furnished by the Contractor.
5. Bedding of the sewer main and compaction of the backfill material shall be required in accordance with Sections 4.4.1.6 and 4.4.1.7 of the City of Sumner *Development Specifications and Standard Details*.
6. Native material shall not be used for backfill material unless it conforms to the City of Sumner trench backfill requirements. The Contractor shall be responsible for laboratory analyses and associated costs required to verify conformance.
7. Temporary street patching shall be allowed for as approved by the City Engineer. Temporary street patching shall be provided by placement and compaction of 2 inches minimum asphalt concrete cold mix. Contractor shall be responsible for maintenance as required.
8. All STEP mains shall be hydrostatically tested in conformance with the City of Sumner *Development Specifications and Standard Details*. In addition, all STEP mains shall be pigged/cleaned in the presence of a Public Works Department representative prior to placing STEP main in service.
9. Prior to backfill, all mains and appurtenances shall be inspected and approved by the City of Sumner. Approval shall not relieve the Contractor's responsibility for correcting any deficiencies and/or failures as determined by subsequent testing and inspections. It shall be the Contractor's responsibility to notify the City of Sumner of the required inspections.
10. Inspections for on-site STEP installations are required. A 48-hour notice to the Public Works Department is required prior to the inspection.
11. Gravity sewer pipe mains and laterals shall be PVC or ductile iron in accordance with the City of Sumner *Development Specifications and Standard Details*.
12. Side sewers shall be tested for acceptance at the same time the main sewer is tested.

13. Sewer main connection to the existing City system shall be prohibited until the extension has been cleaned to the satisfaction of the Sumner Public Works Department.
14. New connections to existing manholes or sewer lines shall be sealed off until upstream construction is satisfactorily tested and accepted by the City Public Works Department.
15. Contractor shall adjust manhole rims to flush with the final finish grade. All manhole rings and covers shall be per the City of Sumner *Standard Details*.
16. Contractor shall maintain a minimum of 10-foot-horizontal and 1.5-foot-vertical separation between all water and sewer lines. Any conflicts shall be reported to the City Engineer prior to construction.
17. The Contractor shall have all utilities verified on the ground prior to any construction. Call (1-800-424-5555) at least 48 hours in advance. The Owner and his/her Engineer of Record shall be contacted immediately if a conflict exists.
18. When replacing an existing sewer main, the following shall also be replaced to current City standards:
  - a) Manholes and frames and covers, and
  - b) Side sewers from the new main to the right-of-way line.

## WATER SYSTEM NOTES

1. A copy of these approved Plans and applicable City of Sumner *Development Specifications and Standard Details* shall be on site during construction.
2. The City shall collect biological test samples following satisfactory system flushing, hydrostatic testing, and disinfection.
3. Water main pipe shall be ductile iron. Ductile iron pipe shall conform to AWWA C151. Ductile iron pipe shall have cement mortar lining conforming to AWWA C104. Ductile iron pipe shall conform to AWWA C150 Special Thickness Class 52.
4. Pipe joints for ductile iron pipe shall be mechanical or push-on joints with rubber gaskets conforming to AWWA C111. Rubber gaskets for ductile iron pipe joints shall conform to AWWA C111.
5. Fittings for ductile iron pipe shall be gasketed and conform to AWWA C110 or AWWA C153. Ductile iron pipe fittings shall have cement mortar lining conforming to AWWA C104.
6. All water mains and appurtenances shall be hydrostatically tested at minimum 225 psi in accordance with the methods outlined in WSDOT Section 7-09.3(23).
7. Water meters up to and including 2-inch diameter will be provided by the City Public Works Department following satisfactory completion of hydrostatic and bacteriological testing.
8. All work and materials shall be in accordance with the latest edition of the City of Sumner *Development Specifications and Standard Details*, AWWA standards, WSDOT Standard Specifications, and the approved Plans. Any deviation from the Plans will require approval from the Owner, Engineer of Record, and appropriate public agencies.
9. All new connections to the existing water system shall be in strict conformance with the appropriate subsections of Section 7-09 of the WSDOT Specifications. No connection shall be made between the new main and the existing mains until the new piping has been satisfactorily pressure tested, cleaned, flushed, disinfected, and purity tested. Temporary plugs or caps and blocking shall be installed at the points of connection to the existing system. The Contractor shall contact the City of Sumner Public Works Department at least two (2) working days prior to the proposed connection of the existing main. The Public Works Department will arrange for shutdowns. The Contractor shall expose the existing main and provide all necessary fittings for the connections. A representative of the Public Works Department shall be present when the actual connection is made.
10. Pressure and purity testing shall be done in the presence of and under the supervision of the City of Sumner Public Works Department. The Contractor shall provide plugs and/or temporary blow-off assemblies for testing, flushing, and purity sampling. All water mains shall be installed and tested in accordance with AWWA Standard C651 and the City of Sumner *Development Specifications and Standard Details*.
11. Any revisions made to these Plans must be reviewed and approved by the Engineer of Record and the Public Works Department prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these Plans.

12. Any structure and/or obstruction that require removal or relocation relating to this project shall be done so at the Developer's expense.
13. The Contractor shall have all utilities verified on the ground prior to any construction. Call (1-800-424-5555) at least 48 hours in advance. The Owner and his/her Engineer of Record shall be contacted immediately if a conflict exists.
14. All materials used for construction shall be new and undamaged and shall be inspected and approved by the City of Sumner prior to installation. The Contractor shall provide the City of Sumner with a Certificate of Materials from the supplier if requested. All pipes, fittings, valves, hydrants, joints, and related appurtenances shall conform to the latest standards issued by the City of Sumner, WSDOT, APWA, and AWWA.

## ROADWAY NOTES

1. All materials and workmanship shall conform to the latest editions of the WSDOT *Standard Specifications for Road, Bridge, and Municipal Construction* and the Washington State Department of Transportation and American Public Works Association Standards, except as amended or superseded by the City of Sumner *Development Specifications and Standard Details*.
2. The Contractor shall obtain all approvals and permits required by the City of Sumner prior to the start of construction.
3. Any revisions made to these drawings shall be reviewed and approved by the Engineer of Record and the City of Sumner prior to implementation in the field.
4. The Contractor shall verify the locations of all utilities prior to the start of construction. Call 1-800-424-5555 for "One Call Locates."
5. Any structure and/or obstruction that require relocation or removal as a result of this project shall be done at the Developer's expense.
6. Signing and traffic control devices are safety items that shall be constructed prior to issuance of certificate of occupancy. All signing shall be in conformance with the *Manual on Uniform Traffic Control Devices* (MUTCD).
7. Roadway gradients that exceed the maximum longitudinal slope must be approved by the Fire Marshal. Approval may include the requirement that fire suppression sprinkler systems be installed in all residential structures that have sole access from that roadway.
8. At the intersection of two dissimilarly classified streets, the larger curb return radius shall be used. Two-centered or three-centered curves should be used on oblique angle intersections, or in order to accommodate WB-63 or WB-50 vehicles.

## TESC NOTES

1. Approval of this Stormwater Site Plan does not constitute an approval of permanent road or drainage design.
2. The implementation of these TESC BMPs and the construction, maintenance, replacement, and upgrading of these TESC facilities is the responsibility of the Applicant/Contractor until all construction is approved.
3. The boundaries of the clearing limits shown on this plan shall be clearly flagged in the field prior to construction. During the construction period, no disturbance beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the ESC Supervisor for the duration of construction.
4. The TESC BMPs shown must be constructed prior to all clearing and grading activities, and in such a manner to ensure that sediment-laden water does not enter the drainage system or violate applicable water standards.
5. The permittee shall notify the City Engineer or designee to schedule inspections at the completion of the following phases of work:
  - Preconstruction Inspection. Prior to the commencement of any other work, the inspection of erosion and sediment control devices shall take place when installation of all the erosion and sediment control devices has been completed according to approved plans. Only the minimum area necessary for installation of erosion and sediment control devices shall be cleared and/or graded prior to this inspection.
  - Rough Grading Inspection. When all rough grading is complete, inspection of the site shall take place to determine the satisfactory functioning of all erosion and sediment control devices.
  - Final Inspection. Upon completion of all construction, inspection of the site shall take place to determine that all temporary erosion and sediment control devices have been removed and that the site has been permanently stabilized.
6. The TESC BMPs shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these TESC facilities shall be upgraded (e.g., additional sumps, relocation of ditches and silt fences, etc.) as needed for unexpected storm events and as the City requires.
7. From October 1 through April 30, no soils shall remain exposed and unworked for more than 2 days. From May 1 through September 30, no soils shall remain exposed and unworked for more than 7 days. This condition applies to all soils on site, whether at final grade or not. See the Department of Ecology *2012 Stormwater Management Manual for Western Washington*, Volume II, for additional soil stabilization requirements.
8. Any area needing TESC measures, not requiring immediate attention, shall be addressed within 15 days.
9. At no time shall more than 1 foot of sediment be allowed to accumulate within a catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment-laden water into the downstream system.

10. Stabilized construction entrances shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures may be required to ensure that all paved areas are kept clean for the duration of the project.
11. Provisions shall be made to avoid the tracking of sediment by construction vehicles onto paved public roads. If sediment is deposited, the roads are to be cleaned every day by sweeping.
12. Any permanent retention/detention facility used as a temporary settling basin shall be modified with the necessary erosion-control measures and shall provide adequate storage capacity and shall be cleaned out entirely following project completion.
13. As construction progresses and unexpected seasonal conditions dictate, and as the City requires, the permittee should anticipate that more TESC measures will be necessary to protect adjacent properties and ensure adequate water quality for site runoff. It shall be the responsibility of the ESC Supervisor to address deficient TESC conditions and provide additional facilities, over and above minimum requirements outlined on the approved plans.
14. The ESC Supervisor shall inspect all TESC measures monthly during the dry season (May 1 to September 30), weekly during the wet season (October 1 to April 30), and immediately following significant storms (0.4 inches of precipitation in 24 hours). Written record of these inspections shall be retained on site, with a copy of the inspection report being forwarded to the City Engineer or designee within 48 hours of each inspection. ESC Supervisor shall be responsible for maintaining all TESC BMPs as necessary to ensure continued satisfactory function and operation.
15. Return siltation control areas to original or better ground conditions at project completion.

## STORMWATER SITE PLAN NOTES

1. All workmanship and materials shall be in conformance with the City of Sumner *Development Specifications and Standard Details*, the most current copy of the WSDOT *Standard Specifications for Road, Bridge, and Municipal Construction*, and the Ecology Manual.
2. All manholes and catch basins shall be covered with temporary covers to prevent dirt and debris from being pushed into them during construction.
3. Provisions shall be made to avoid the tracking of sediment by construction vehicles onto paved public roads. If sediment is deposited, it is to be cleaned every day by sweeping.
4. City inspection shall be required at the following stages of construction:
  - Completion of flow attenuation or water quality structures.
  - Upon completion of excavation of the detention facilities subfoundation and installation of structural supports or reinforcement, as required by the approved plans.
  - During placement of structural fill or concrete.
  - During piping and catch basin installation.
  - During backfill of foundations or trenches.
  - During construction of embankments.
  - Upon completion of final grading and permanent stabilization.
5. All approvals and permits required by the City of Sumner shall be obtained by the Contractor prior to the start of construction.
6. Stormwater pipe bedding and backfill materials and practices shall be in accordance with the City of Sumner *Development Specifications and Standard Details*.
7. All stormwater improvements shall be constructed in accordance with these approved plans. Any deviation from these plans shall require approval from the Owner, Engineer of Record, and the City.
8. Native material shall not be allowed for backfill unless it conforms to the City of Sumner backfill requirements. The Contractor shall be responsible for laboratory analysis and associated costs required to verify conformance.
9. The Contractor shall adjust all catch basin rims flush with final grade.
10. The Contractor shall provide a minimum 3-foot-horizontal and 0.5-foot-vertical separation between storm lines and all other utilities.
11. All pipe and appurtenances shall be laid on a properly prepared foundation in accordance with WSDOT Section 7-08. This shall include leveling and compacting the trench bottom, the top of the foundation material, and any required pipe bedding to a uniform grade so that the entire pipe is supported by a uniformly dense, unyielding base.

12. All drainage structures, such as catch basins and manholes, not located within a traveled roadway or sidewalk shall have solid locking lids.
13. All driveway culverts located within City of Sumner right-of-way shall be of sufficient length to provide a minimum 3:1 slope from the edge of the driveway to the bottom of the ditch. Culverts shall have beveled end sections to match the side slope, and shall be installed with a trash rack on the upstream end.
14. Rock for erosion protection of roadway ditches, where required, must be of sound quarry rock, placed to a depth of 1 foot.
15. Storm stub-outs shall be provided for each individual lot. Stub-outs on each lot shall be located with a 5-foot-high, 2-inch by 4-inch stake, marked "storm" or "drain." The stub-out shall extend above surface level, be visible, and be secured to the stake.