

CITY OF ENUMCLAW

EROSION AND SEDIMENT CONTROL NOTES (BASED ON KING COUNTY EROSION & SEDIMENT CONTROL STANDARDS)

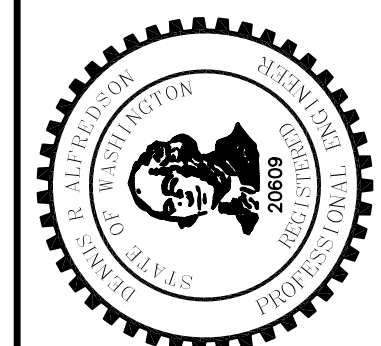
- 1. Approval of this erosion and sediment control (ESC) plan does not constitute an approval of permanent road or drainage design (e.g., size and location of roads, pipes, restrictors, channels, retention facilities, utilities, etc.).
2. The implementation of these ESC plans and the construction, maintenance, replacement, and upgrading of these ESC facilities is the responsibility of the applicant/ESC supervisor until all construction is approved.
3. The boundaries of the clearing limits shown on this plan shall be clearly flagged by a continuous length of survey tape (or fencing, if required) prior to construction. During the construction period, no disturbance beyond the clearing limits shall be permitted. The clearing limits shall be maintained by the applicant/ESC supervisor for the duration of construction.
4. The ESC facilities shown on this plan must be constructed prior to or in conjunction with all clearing and grading so as to ensure that the transport of sediment to surface waters, drainage systems, and adjacent properties is minimized.
5. The ESC facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these ESC facilities shall be upgraded as needed for unexpected storm events and modified to account for changing site conditions (e.g., additional sump pumps, relocation of ditches and silt fences, etc.).
6. The ESC facilities shall be inspected daily by the applicant/ESC supervisor and maintained to ensure continued proper functioning. Written records shall be kept of weekly reviews of the ESC facilities during the wet season (Oct. 1 to April 30) and of monthly reviews during the dry season (May 1 to Sept. 30).
7. Any areas of exposed soils, including roadway embankments, that will not be disturbed for two days during the wet season or seven days during the dry season shall be immediately stabilized with the approved ESC methods (e.g., seeding, mulching, plastic covering, etc.).
8. Any area needing ESC measures not requiring immediate attention shall be addressed within fifteen (15) days.
9. The ESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within forty-eight (48) hours following a storm event.
10. At no time shall more than one (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.
11. Stabilized construction entrances and roads shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures, such as wash pads, may be required to ensure that all paved areas are kept clean for the duration of the project.
12. Any permanent flow control facility used as a temporary settling basin shall be modified with the necessary erosion control measures and shall provide adequate storage capacity. If the facility is to function ultimately as an infiltration system, the temporary facility must be graded so that the bottom and sides are at least three feet above the final grade of the permanent facility.
13. Where straw mulch for temporary erosion control is required, it shall be applied at a minimum thickness of 2 to 3 inches.

GENERAL NOTES

- 1. All work shall be in conformance with City of Enumclaw Standards and in accordance with the latest addition of the "Standard Specifications for Road, Bridge, and Municipal Construction" as jointly adopted by Washington State Department of Transportation and American Public Works Association (Washington State Chapter). Work must conform to the latest adopted edition of the International Building Code as adopted by the City.
2. All applicable EPA, Washington State DOE, and PSCAA standards governing air quality shall be followed during construction and subsequent operation of the facility.
3. DOE's Application of General Permit to Discharge Stormwater Associated with Construction Activity is required for 1 acre or more of disturbed area.
4. Clearing and grading of the site shall be limited to the dry season only, April 1 to September 30, unless otherwise approved by the City. It shall be the owner's responsibility to hydro-seed all slopes that, because of clearing and grubbing or grading, end up devoid of landscaping and/or natural vegetation to prevent erodible conditions. Seeding shall be applied before September 30th.
5. Pursuant to the Revised Code of Washington (RCW) 27.53, the encounter of any items of possible cultural or historic significance shall immediately halt all work and trigger notification of the State Office of Archaeology and Historic Preservation, Muckleshoot Indian Tribe, and City of Enumclaw.
6. A copy of these approved plans must be on the job site whenever construction is in progress. Contractor shall notify engineer in the event of discovery of poor soils, standing groundwater or discrepancies from plans in existing conditions. Any revisions to these plans must be reviewed and approved by the Department of Public Works prior to any implementation in the field.
7. For any work within City right-of-ways or easements a Right-of-Way permit from the City of Enumclaw Public Works Department (located at 1309 Myrtle Avenue) is required.
8. Prior to starting construction, the Applicant or his/her Contractor shall call ONE-CALL (1-800-424-5555) and the City for utility locations (water, sanitary sewer, storm sewer, gas, power, telephone, and television).
9. Notify the City at least 48 hours before construction is started and before any exposure or possible disturbance of utilities including storm drainage facilities. Notify affected residents and/or businesses 48 hours in advance of starting work.
10. Working hours shall be limited to 7:00 a.m. to 5:00 p.m. weekdays unless otherwise authorized by the City.
11. The contractor shall meet all trench safety requirements of county, state and federal law and shall be responsible for maintaining trench safety measures throughout the project.

- 12. During construction, the contractor shall be required to control on-site storm water runoff by using temporary erosion/siltation control procedures where necessary. No sediment laden storm water shall be allowed to discharge into the City's storm drainage system or onto adjacent properties. No storm drainage or ground water will be allowed into the sanitary sewer system. All streets adjacent to this project shall be kept clean of all material deposits resulting from on-site construction, as directed by the City. The contractor shall also take steps to control dust on the site. In event of any non-compliance the city may immediately correct without notice and any such costs to the city shall be paid by the contractor.
13. Existing traffic on all roads to be maintained at all times. A minimum of one lane of traffic to be kept open at all times. Traffic control plan to be approved by City Engineer before construction. Minimum time of notice for lane restriction shall be 24 hours. Full road closures, if allowed, require a minimum of five working days notice. The contractor is responsible for giving such notice to the police and fire departments as well as the Enumclaw School District. Depending on project duration, non-portable construction signs may be required at locations determined by the City. All traffic control to conform to the latest addition of the Manual of Uniform Traffic Control Devices (MUTCD).
14. It shall be the Contractor's responsibility to determine the true elevations and locations of utilities so as to avoid damage or disturbance during construction. It will be the contractor's responsibility to contact all utility companies in order to assure that all lines, pipes, poles and other appurtenances are properly located and their installation is coordinated with construction. All utility relocation work shall be at the expense of the contractor and must be in accordance with standards adopted by the City prior to acceptance. Contractor shall be responsible for relocating any existing utilities that will be in conflict with new facilities. This would include all minimum separation requirements between utilities such as minimum separation between water and sanitary sewers as required by the state. Also, contractor shall be responsible for relocating any existing utilities that, as a result of setting final grade, lose their minimum required cover.
15. It is the responsibility of the Applicant or his/her Contractor to notify the City Engineer at the completion of each phase of work for arrangement of inspection schedule prior to proceeding to the next phase.
16. Sidewalk, curb & gutter removal and replacement shall be full section between existing construction joints.
17. All hard surfaced road crossings to be jacked, bored, or directional drilled. Exceptions will be on a case-by-case basis with permission to open cut given by the Engineering Department. No hole-hogging is allowed under public streets unless approved by the City.
18. Existing pavement shall be cut with an approved tool prior to removal and shall be neat straight lines parallel or perpendicular to the roadway unless otherwise allowed by the City. Removal area shall be minimum necessary to install or repair utilities and appearances and shall in no case exceed 60' width. Asphalt concrete pavement restoration section shall be 2" of Asphalt Concrete Class B or to match original surface thickness whichever is greater over a minimum of 4" of crushed surfacing top course. Final cut prior to patching shall be a saw cut.
19. A maximum of 150 lineal feet of trench is allowed to be open at one time.

- 20. Select trench backfill material will generally be required for the entire project. Aggregate for Gravel Borrow, as specified in Section 9-03.14(1) of the Standard Specifications shall be used within unpaved areas to be paved as part of this project unless otherwise directed by the Engineer. Crushed surfacing material in accordance with Section 9-03.9(3) shall be used as backfill under existing paved areas. In general, all structural and trench backfill shall be compacted to a minimum of 95% of maximum dry density obtained in accordance with the ASTM D-1557 test method; see City of Enumclaw Construction Specification "Mechanical Compaction" for more detail.
21. Cold mix temporary patches shall be placed until a permanent patch has been placed. Temporary patches are to be maintained in such a manner as to prevent traffic hazards until the permanent patch is placed. The contractor shall have 30 days unless otherwise allowed by the City in which to install a permanent patch. Temporary patching to be removed and disposed of when permanent patch is placed. If permanent repairs are not made or waived within 30 days, the City will make repairs and back charge the Applicant starting at a minimum charge of \$200.00 plus actual cost incurred to make the repair.
22. Asphalt paving shall be placed by approved paving machine to achieve compaction as required by the Standard Specifications. The restored section shall extend a minimum of 12 inches beyond each side of trench cut or to edge of existing pavement when such edge is within 3 feet of the side of the trench cut. All joints between the patch and original pavement shall be painted with asphalt emulsion (CSS-1) tack coat.
23. Bedding for plastic drain pipe shall be gravel as specified in Section 9-03.12(3) or Section 9-03.9(3) of Standard Specifications a minimum 4 inches under to 6 inches minimum over pipe.
24. All connections of smooth exterior wall plastic pipe to manholes and catch basins shall be made by using GFK manhole adapters, or approved equal. AC adapters will not be allowed.
25. Any striping or traffic marking shall be replaced by the Applicant. The Contractor shall install, replace, or relocate signs affected by construction, per the City's requirements. All street signs shall conform to the City of Enumclaw and the latest M.U.T.C.D. standards.
26. Landscaped Areas - All areas in both the public right-of-way and on private property which contain improvements disturbed by the construction process will be restored to a condition equal or better than what existed prior to construction. The restoration will include, but not be limited to the following: (See the City of Enumclaw's Technical Specifications, Division 700, for seeding, sod, and topsoil requirements.)
a. The top three (3) inches of lawn or landscaped areas shall be topsoil for sod and four (4) inches for seed.
b. Lawn areas shall be re-established by the use of sod strips or by seeding.
c. Replacement of removed or damaged trees and shrubs
d. If street trees are required, coordinate with the City on their placement.
e. Repair and replacement to damaged facilities such as mailboxes, fences, rockeries, concrete and asphalt driveways, sidewalks, curbs and gutters, buildings, etc., including saw-cutting damaged concrete or asphalt areas before repair.



DESIGNED BY D. ALFREDSON
DRAWN BY D. ALFREDSON

The City Engineer will consider alternate restoration methods upon submittal.

Unimproved Areas - All areas in both the public right-of-way and on private property which remains undeveloped in a natural state and are disturbed by construction shall be restored as follows:

- a. Rake and remove any debris and hydroseed. See the City of Enumclaw's Technical Specifications for hydroseeding requirements.

The City Engineer will consider alternate restoration methods upon submittal.

- 27. All construction surveying for extensions of City Utilities shall be done under the direction of a licensed land surveyor or a licensed professional Civil Engineer licensed by the State of Washington. No survey monuments shall be removed without authorization per WAC 332-120.
28. The rim elevations of the street centerline monuments within plats are to be tied to the City's vertical datum and elevations shown in the as-built drawings.
29. Truck haul routes are to be pre-approved by the City before construction is allowed to commence.
30. Power, phone and CATV lines shall be in a trench with a minimum horizontal separation from sewer, water, and storm of five feet.
31. All downspouts shall be directed into the storm drainage system. Downspouts and footing drains should be tight-lined away from building prior to being connected.
32. All fill used for development of the site shall come from a city approved source. Excess soil removed from the site shall be taken to an approved legal receiving site. Prior approval of the pit from which the Contractor desires to provide imported material is required by the Engineer. Provide written certification that the material is free of environmentally hazardous material.
33. "V" locks are to be placed within sidewalks as directed by the City to provide for sign posts. It is the contractor's responsibility to coordinate with the City on their placement.
34. Maintain all temporary or permanent work in accordance with Section 1-07.13 of the Specifications.
35. Coordinate with the City of Enumclaw and the Enumclaw Postmaster on the location and type of proposed mailbox(es). The Enumclaw Postmaster can be reached at 360.825.8325.
36. All traffic, street name and other signs shall be installed by the subdiviver to city standards. Dead-end short plat streets serving more than one lot shall be posted "No Parking - Fire Lane." (Ord. 2316 § 2 (Exh. A), 2006)

Water Notes

- 1. During water line disinfection and pressure testing proper cross connection control measures shall be taken, as directed by the City.

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- 2. Minimum pipe cover for water mains shall be 36 inches. Maximum pipe cover shall be 60 inches unless otherwise approved by the City Engineer. Minimum pipe cover for water services shall be 30 inches, except for crossings with sanitary sewer where the minimum pipe cover may be reduced to 18 inches, when necessary, in order to maintain 18 inches of vertical separation from the sewer. Corporation stops should be placed such that the main is at a standard depth (36 inches cover) at the service tap.
3. Provide a type 2 blue raised pavement marker in the center of the roadway adjacent to each fire hydrant location.

Sanitary Sewer Notes

- 1. Prior to construction, contractor to verify existing sewer elevations.
2. Contractor shall coordinate with the city when constructing side sewer stubs. Stub ends should be constructed only deep enough to serve its associated lot(s), but in no case be constructed less than 5' deep.
3. All sewer mains and side sewers shall be pressure tested per the Standard Specifications. Mains shall be tested for deflection by pulling a mandrel between manholes as per the Standard Specifications.
4. Concentric cone manholes are not allowed.
5. Type 3 sanitary manholes are required when rim to invert elevation difference is 6 feet or less, otherwise Type 1 manholes are required; see Enumclaw standard details. Orient manway & ladder directly over sewer main invert.
6. Grout all manhole joints, inside and outside.

Storm Drainage Notes

- 1. All work pertaining to storm drainage facilities shall conform to the City of Enumclaw Design Standards and the 2005 Stormwater Management Manual for Western Washington unless otherwise authorized by the City.
2. A Stormwater Pollution Prevention Plan (SWPPP) is required for land disturbing activities > 7000 sq. ft. in size.
3. The Washington Department of Ecology's (DOE) Application of General Permit to Discharge Stormwater Associated with Construction Activity is required for 1 acre (43,560 sq. ft.) or more of disturbed area. Construction sites one acre or larger that discharge stormwater to surface waters of the state, shall have site inspections conducted by a Certified Erosion and Sediment Control Lead (CESCL). The CESCL shall be identified in the SWPPP and shall be present on-site or on-call at all times. Certification shall be obtained through an approved erosion and sediment control training program that meets the minimum training standards established by Ecology (see BMP C160 in the 2005 Stormwater Management Manual for Western Washington).

Natural Gas Construction Notes

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- 1. For plats, the City will design the gas plan after Puget Sound Energy's plan is received by the City. All proposed gas mains will be installed by the City. Contractor or developer is responsible for labor and materials for pipe trenching, bedding, backfilling. The gas main location shall be coordinated with the joint trench of Puget Sound Energy, US West Communications and TCI Cablevision, when present. Contractor shall coordinate his activities with the City of Enumclaw Gas Department. Contact the Operations Manager at (360) 825-5541.
2. All gas mains and services shall be marked with 3 inch wide non-detectable underground marking tape as manufactured by Calpico, Inc. or equivalent. The tape shall be labeled continuously for the gas utility. The tape shall be installed approximately 12 inches directly above the utility line and shall run continuously with the line. If the utility is shallow then the minimum depth of bury shall be no less than 12 inches below surface grade. All utility service lines within city right-of-way shall also be marked.
3. Gas lines shall be in a trench with a minimum horizontal separation from other public utilities (sewer, water, storm) of five feet.
4. Street crossings for gas mains or service lines shall be made with Schedule 40 PVC conduit at the diameter determined by the City of Enumclaw Gas Manager. Conduit length shall extend 12 inches beyond the limits of the street right-of-way and be capped soil-tight.
5. Gas service lines shall be extended beyond the limits of the joint utility trench of each lot. The contractor or developer shall have adequate horizontal control in place to determine:
a. The location of the front lot corners
b. At intersections, the location of proposed curbs and/or sidewalks

Wire Utilities Notes

- 1. The developer or his representative is responsible for obtaining design plans from the wire utilities. All new wire utilities (PSE, Qwest and Comcast) shall be installed underground unless otherwise authorized by the City of Enumclaw. Contractor to coordinate with each utility during construction.
2. Wire utility service lines (PSE, Qwest and Comcast) shall be extended underground from their utility connection points. No new utility poles or overhead service extensions will be allowed.

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- 14. Prior to the beginning of the wet season (Oct. 1), all disturbed areas shall be reviewed to identify which ones can be seeded in preparation for the winter rains. Disturbed areas shall be seeded within one week of the beginning of the wet season. A sketch map of those areas to be seeded and those areas to remain uncovered shall be submitted to the City inspector. The City inspector can require seeding of additional areas in order to protect surface waters, adjacent properties, or drainage facilities.

RECOMMENDED CONSTRUCTION SEQUENCE

- 1. Pre-construction meeting.
2. Flag or fence clearing limits.
3. Post Notice of Construction Activity sign with name and phone number of ESC supervisor.
4. Install catch basin protection if required.
5. Grade and install construction entrance(s).
6. Install perimeter protection (silt fence, brush barrier, etc.).
7. Construct sediment ponds and traps.
8. Grade and stabilize construction roads.
9. Construct surface water controls (interceptor dikes, pipe slope drains, etc.) simultaneously with clearing and grading for project development.
10. Maintain erosion control measures in accordance with City of Enumclaw/King County standards and manufacturer's recommendations.
11. Relocate surface water controls and erosion control measures or install new measures so that as site conditions change the erosion and sediment control is always in accordance with the City of Enumclaw/King County Erosion and Sediment Control Standards.
12. Cover all areas that will be unworked for more than seven days during the dry season or two days during the wet season with straw, wood fiber mulch, compost, plastic sheeting or equivalent.
13. Stabilize all areas that reach final grade within seven days.
14. Seed or sod any areas to remain unworked for more than 30 days.
15. Upon completion of the project, all disturbed areas must be stabilized and best management practices removed if appropriate.

This is for design concept only. These plans appear to be in conformity with the City of Enumclaw design standards for construction. This approval should not be construed as authorizing construction not in accordance with applicable City standards. The owner and/or owner's representatives shall be responsible for compliance with all applicable standards. The City reserves the right to require revisions to approved plans and/or construction and modifications to assure compliance with City of Enumclaw design standards for construction at any time that it is discovered that the proposed construction does not otherwise meet with applicable construction standards. The owner is required to provide designs and plans in accordance with applicable City standards and assure that construction is accomplished in accordance with those standards. The owner and/or design engineer and/or developer, as the case may be, may be required to make necessary approved field revisions to correct any errors or omissions found to exist on the approved plans.

APPROVED FOR CONSTRUCTION

Lindsey Winborn, P.E.
City Engineer
City of Enumclaw
Date:
Plans reviewed by:
Plans reviewed by:

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