

GENERAL NOTES

- 1. All references to City design standards refer to the current standards.
2. The Design engineer will be responsible for inspection of the proposed improvements with oversight from the City's Public Works and Engineering staff.
3. A work schedule will be required from the contractor so that the Engineer can have an inspector onsite at the appropriate times.
4. The contractor is to receive the approval of the Engineer and the City of any proposed changes to the plans or standard requirements.
5. A Building Department Plumbing Permit is required for utilities beyond the first cleanout or meter on private property.
6. A Public Improvement Guarantee Agreement or a Public Works Permit, a pre-construction meeting with the City of West Linn, and installation of erosion control measures are required prior to beginning construction.
7. Prior to site clearing, 8' tall chain-link fencing shall be placed at tree easement boundaries prior to site grading.
8. A City representative and a representative of the Engineer must be present at all testing and the City shall be furnished a copy of all test results.
9. All fees for street trees shall be paid to the City of West Linn Parks and Recreation Department.
10. No building permits will be given until the improvements have been accepted by the City as substantially complete.
11. Contractor shall verify depth and location of existing utilities and points of connection prior to ordering manholes. If discrepancies are found, contractor shall notify the Engineer.

WATER NOTES

- 1. Water mains shall be ductile iron pipe conforming to AWWA C151 Class 52. Pipe is to have cement mortar lining and bituminous seal coat conforming to AWWA C104. Joints are to be push-on rubber gasketed joints unless noted otherwise on the plan.
2. Water mains have a minimum cover of 36".
3. Thrust blocks are to be provided at all changes in direction and branches. Thrust blocking concrete strength is to be 3000 psi.
4. Gate valves shall be resilient seat, non-rising stem with "O" ring packing, complying with AWWA Class "C" Specifications.
5. Fire hydrants shall conform with AWWASpecification C-502.
6. Granular backfill (3/4"-0) is to be compacted to 95% maximum dry density per AASHTO T 180 test method.
7. Service laterals shall be Type K copper. Lateral sizes shall be 1".
8. All waterlines will be pressure tested and purification tested before connection to the city water system.
9. Chlorination shall conform with Division 403.13 of the W.L.S.C.S.
10. Do not connect new pipe to existing pipe prior to testing.
11. A plumbing permit is required for service lateral installations beyond the water meter.
12. All materials, installation, tests, and chlorination to be in strict accordance with the City of West Linn Public Works Standard Construction Specifications, and the Oregon State Health Division Administration Rules, Chapter 333.

STREET NOTES

- 1. New street sections are to be cleared of all surface vegetation and other miscellaneous structures or materials.
2. Street subgrade shall conform to Division 501 of the City of West Linn Standard Construction Specifications.
3. Aggregate base rock shall conform to the requirements of W.L.S.C.S. Division 205.
4. Asphalt concrete shall conform to the requirements of W.L.S.C.S. Division 205.
5. Construct curb and gutter using 3300 psi concrete meeting the specifications of W.L.S.C.S. Division 205.
6. All materials, installation, tests, and inspections to be in strict accordance with City of West Linn Public Works Standard Construction Specifications.
7. A street construction encroachment permit or similar permit may be required from the City of West Linn.
8. Monument boxes will be required at all street centerline intersections, points of curvature and points of tangency.

STORM SEWER NOTES

- 1. Eight inch to 24-inch storm drain pipe is preferred to be seamless ribbed PVC pipe conforming to ASTM F 794.
2. Gutter inlets shall be poured in-place concrete with a minimum compressive strength of 3300 psi.
3. Manhole base may be poured in place concrete with a minimum compressive strength of 3300 psi.
4. All manholes located in easement areas require tamper proof lids and lid shall be set 12 inches above proposed grade.
5. Cleanout pipe, fittings, and joints shall be the same specifications as for pipe.
6. Granular backfill (3/4"-0) is to be compacted to 95% maximum dry density per AASHTO T-180 test method.
7. Storm drain service laterals shall be 4" pipe conforming to the same specifications as the storm drain main lines.
8. Riprap where noted on the plans is to be Class 50 in accordance with Oregon State Highway Division specification 714.
9. Private catchbasin shall be trapped and sumped Gibson Steel pre-fabricated catchbasin or approved equal.
10. Storm drains shall be tested for deflection in accordance with Division 601.03.11 and video inspected in accordance with Division 601.03.12.
11. A plumbing permit from the City of West Linn Building Department is required for storm drains beyond the first cleanout.
12. All materials, installation, tests, and inspections to be in strict accordance with the City of West Linn Standard Construction Specifications.
13. Detention pond plantings to conform to planting plans, Sheet L-1.

SANITARY SEWER NOTES

- 1. Pipe shall be PVC sewer pipe conforming to ASTM D-3034 SDR 35.
2. Manhole base shall be poured in place concrete base with a minimum compressive strength of 3300 psi.
3. All manholes located in easement areas require tamper proof lids and the lid shall be set 12" above the proposed grade.
4. Cleanout pipe, fittings, and joints shall be the same specifications as for pipe.
5. Granular backfill (3/4"-0) is to be compacted to 95% maximum dry density per AASHTO T-180 test method.
6. PVC service laterals shall be 4" pipe conforming to the same specifications as the sewer mains.
7. Sanitary sewer pipe and appurtenances shall be tested for leakage in accordance with W.L.S.C.S. Division 301.03.09.
8. A plumbing permit from the City of West Linn Building Department is required for sanitary sewer laterals beyond the first cleanout.

EROSION CONTROL SUMMARY:

- 1. The intent of the requirement is to prevent siltation from reaching storm drain systems and drainage ways.
2. The minimum measures need to be made on all projects.
a) a gravel pad, at least 50 feet long, is required where vehicles will leave the construction site.
b) a sediment barrier is to be constructed of straw bales or a sediment fence where noted in the details or where sediment will cross outside the work area.
c) where excavated material is placed on hard surfaces (such as streets) material must be broomed or scraped clean as soon as possible.
d) riprap exits from all culverts and storm drain pipes draining into the ditches or swales.
e) reseed or cover disturbed areas as soon as is possible and practical but no later than the completion of construction on the other phases of work.

GENERAL GRADING AND EROSION CONTROL (PART 1):

- 1. Approval of this erosion control (ESC) plan does not constitute an approval of permanent road or drainage design.
2. The implementation of these ESC plans and the construction, maintenance, replacement, and upgrading of these esc facilities is the responsibility of the applicant/contractor until all construction is completed.
3. The ESC facilities on this plan must be constructed in conjunction with all clearing and grading activities.
4. The esc facilities shown on this plan are the minimum requirements for anticipated site conditions.
5. The ESC facilities shall be inspected daily by the applicant/contractor and maintained as necessary to ensure their continued functioning.
6. The ESC facilities on inactive sites shall be inspected and maintained a minimum of once a month.
7. At no time shall more than one foot of sediment be allowed to accumulate within a trapped catch basin.
8. Stabilized construction entrances shall be installed at the beginning of construction and maintained for the duration of the project.

GENERAL GRADING AND EROSION CONTROL (PART 2):

- 1. Clean waste material excavated from road cut or trenching areas not used in street fill areas may be spread evenly across lot areas in depths not to exceed six inches.
2. During construction, straw bales, cutoff trenches or some other method of runoff control shall be used to prevent erosion and/or siltation from crossing outside the work area boundaries.
3. Large organic material, miscellaneous pipe or construction material must be removed from the site and disposed of properly.
4. No filling or cutting shall be done outside of approved grading areas.
5. All erosion control facilities shall meet the requirements of the clackamas county department of utilities, erosion prevention and sediment control plans technical guidance handbook (ectgh), revised august, 1994; chapter 31 of the community development code; and the oregon administrative rules.

SEEDING/MULCHING:

- 1. All areas disturbed during construction to be graded to drain and compacted to a minimum of 90% of AASHTO T-99 immediately after installation of utilities or grading.
2. Recommended seed mixture: 80% elka dwarf perennial ryegrass and 20% creeping red fescue, by weight.
3. Fertilizer shall be 12-16-8 with 50% of the nitrogen derived from urea formaldehyde, and applied at a rate of 400 pounds per acre.
4. Seed and mulch at a rate of 2000 lbs/ac with heavy bonding agent or netting and anchors.
5. Temporary or permanent hydroseeding are acceptable seeding and mulching must be provided whenever perennial cover cannot be established on sites which will be exposed for 60 days or more.

SEDIMENT FENCE:

- 1. The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid use of joints.
2. The filter fabric fence shall be installed to follow the contours, where feasible.
3. A trench shall be excavated, roughly 6 inches wide by 6 inches deep, upslope and adjacent to the wood post to allow the filter fabric to be buried.
4. The filter fabric shall be installed with stitched loops over fence posts.
5. Sediment fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.
6. Sediment fences shall be inspected by applicant/contractor immediately after each rainfall, and at least daily during prolonged rainfall.

APPROVED FOR CONSTRUCTION BY CITY OF WEST LINN. This approval is only for general conformance with the design concept and general compliance with applicable codes and requirements and shall not be construed as relieving the Design Engineer of full responsibility for accuracy and completeness of the drawings.

CONSTRUCTION NOTES

REVISIONS

Table with 2 columns: NO., DATE, DESCRIPTION. Row 1: 1, 7-13-11, REV. PER CITY COMMENTS. Row 2: 2, 7-28-11, REV. PER CITY COMMENTS.

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