

# CITY OF LAKE SAINT LOUIS GENERAL NOTES

(To be added to the cover sheet of all Improvement Plans)

## DEPARTMENT OF PUBLIC WORKS

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1. All improvements constructed herein shall comply with all City Ordinances.
2. If an area of greater than one acre is disturbed, a Land Disturbance permit is required prior to commencing excavation operation. Provide copy of approval from the Department of Natural Resources to the Public Works Department.
3. Erosion and sedimentation control shall be the responsibility of the contractor. Additional erosion and sedimentation control may be required as directed by the City Engineer. (Ordinance 440.040 D.).
4. When grading operations are completed or suspended vegetation in sufficient density to provide effective erosion control must be reestablished within 30 days. (Ordinance 440.050 D.). Seed type, density requirements, and fertilizer requirements can be found in Section 60.20.2 in the Design Criteria for the Preparation of Improvement Plans by Saint Charles County, MO.
5. All mud, material and debris from construction site to be kept off of City maintained streets. (Ordinance 440.060).
6. All water main construction including valves, sleeves, meters, hydrants and fittings must conform to Public Water Supply District #2 design standards.
7. All sanitary sewer construction must conform to Public Water Supply District #2 standards and specifications.
8. All street and sidewalk construction is to be per the latest St. Louis County Standard Specifications for Highway Construction, current addition.
9. Flowable fill backfill shall be used for all backfill on sewer trenches that are under City streets, from the top of the bedding material (6 inches above the pipe) to the surface, or to within one foot of grade in landscaped areas.
10. Earth backfill (meeting MSD standards) may be used outside of paved areas, from the top of the bedding material to 6" above the pipe to the surface. Earth backfill should be placed in a maximum 8-inch loose lifts and shall be mechanically compacted to a minimum density equal to that of the adjacent, undisturbed soil.
11. All storm sewer construction is to be per the Metropolitan St. Louis Sewer District (MSD) Standard Construction Specifications for Sewers and Drainage Facilities, 2009.

12. For New Subdivisions Only: Except under streets, utility trenches may be jetted.  
All jetting shall be performed with a probe route on not greater than 7.5-foot centers with the jetting probe centered over and parallel with the direction of the pipe. Trench widths greater than 10 feet will require multiple probes every 7.5-foot centers. Trench backfill depths less than 8 feet in depth shall be probed to a depth extending to half of the trench backfill, but not less than 3 feet. Trench backfill greater than 8 feet in depth shall be probed to half the depth of the trench backfill but not greater than 8 feet. Jetting shall be performed from the low surface topographic point and proceed toward the high point, and from the bottom of the trench backfill towards the surface. The flooding of each jetting probe shall be started slowly allowing slow saturation of the soil. Water is not to be allowed to flow away from the ditch without first saturating the trench. Contractor shall identify the locations of surface bridging (the tendency for the upper backfill crust to arch over the trench rather than collapse and consolidate during the jetting process). The contractor shall break down the bridged areas using an appropriate method such as the wheels or bucket of a backhoe. When the surface crust is collapsed; the void shall be backfilled with the same material within the sunken/jetted area shall be compacted such that no further surface subsidence occurs.
13. All pipe joints and joints on new structures shall use City approved rubber compression type joints. Water stops are required at all points of connection not using rubber compression type joints such as connections to existing structures.
14. Concrete covers on structures will not be allowed. Only cast iron covers are permitted.
15. All storm sewer design is to conform to the City of Lake Saint Louis design requirements.
16. It shall be the responsibility of the contractor/developer to provide traffic control per the latest edition of the Manual of Uniform Traffic Control Devices.
17. Finished grades shall not exceed a 3:1 slope (33%)
18. Transverse underdrains (shallow perforated pipe in a filter fabric sleeve bedded in clean rock) shall be provided at and connected to all stormsewer structure. Underdrains shall traverse the entire pavement width at each stormsewer street crossing.