



Civil Narrative

Luther Burbank Park Master Plan Mercer Island, Washington

April 14, 2006

SITE CLEARING AND TEMPORARY EROSION AND SEDIMENTATION CONTROL

Most of the park will remain intact with isolated areas of improvements. The only significant area of site clearing that will need full coverage of temporary erosion and sedimentation control (TESC) measures will be the West Hill. Standard TESC measures that may be used for the West Hill include soil stabilization, sedimentation barriers and/or filter fabric fence, interceptor swales, check dams, construction exits, and sediment traps or ponds. Site clearing for isolated improvements and paths will include only minor ground disturbances, and TESC measures may include soil stabilization, sedimentation barriers and/or filter fabric fence, interceptor swales, and check dams.

SITE GRADING AND DRAINAGE

The areas where grade changing development may occur are the Source, the Amphitheater, and the West Hill. The other park areas that will be improved are likely to experience only insignificant amounts of re-grading. The lawn/meadow areas of the Source will be graded to generally drain surface water runoff in a non-concentrated sheet flow pattern. The Amphitheater will be graded to slope toward the stage, where stormwater runoff will be collected and conveyed to the current downstream system. The stormwater may be dispersed to eliminate a single point discharge before the stormwater enters the existing downstream system if the existing system is a non-concentrated drainage system. The West Hill currently drains stormwater runoff as sheet flow along the easterly edge of the area. Although the area will be re-graded, the area will continue to slope in the same direction and manner as the existing area. Surface water runoff volumes and peak flows will be similar to existing conditions because the area will continue to be pervious surfaces. Rather than collecting the runoff in a piped system that concentrates stormwater, the area will continue to release stormwater to downstream drainage systems and wetlands as with the existing conditions.

CIVIL UTILITIES

Most of the improvement areas identified in the Luther Burbank Park Master Plan will not need water and sanitary sewer services. Any areas that will be developed within the park which need water and sanitary sewer connections or upgrades will connect to existing water and sanitary sewer park infrastructure. Areas that will require water and sanitary sewer improvements will include the restroom at the Swim Beach, the spray park at the Campus Area, and the p-patch at the West Hill, and may include upgrades to the restroom at the Shell House at the Dock/Boiler. The restroom at the Dock/Boiler may need upgrades for the sanitary sewer lift station in addition to water and sanitary sewer services.