CONSTRUCTION EROSION CONTROL

As erosion control plan and a detailed description of the measures to be taken during construction to control erosion within the limits of the project, and to prevent the deposition of sediment in off-site systems or receiving water bodies, shall be submitted with final engineering construction plans of the development. Included with this submittal shall be calculations supporting the effectiveness of the proposed plans.

A. Erosion Control Plan

The erosion control plan, details and calculations shall document the measures necessary to limit the transport of sediment outside the limits of the project(s) to the volume and amount of that existing prior to the commencement of construction. This pre-construction condition shall be satisfied for the total anticipated construction period. Provisions must be made to prevent the integrity and capacity of catchweir, sediment basins, slope drains and grading patterns, required to meet this provision throughout the project construction life.

I. Temporary Fence

The erosion Control Plan shall include provisions for a temporary 6’ fence suitable for mitigating wind erosion and for providing visual relief during construction. Fences shall withstand normal wind loads. The developer may in lieu of temporary fencing:

i. Erect the required buffer yard screens as required in the landscaping plans if it meets the intent of the erosion control plan

ii. Design less than 15’ (18) acres and provide adequate means to control materials from leaving the construction site. Logical plating of the disturbed areas will need to be shown on the erosion control plan if the site is larger than 15 acres

B. Stockpiling Material

Stockpiled material shall be stockpiled in such a manner as to direct runoff directly off the project site or into any adjacent water body or stormwater collection facility.

C. Exposed Areas Limitation

The surface area of open, erodible soil, exposed by clearing and grading operations, or excavation and filling operations, shall not exceed ten acres. This requirement may be waived for large projects with an approved dust control plan, which demonstrate that opening of additional areas will not significantly affect the erosion or sediment control. A copy of the site's FDEP NPDES permit shall be provided to the Public Services Department prior to a Notice to Proceed being issued.

D. Inlet Protection

Inlets and catch basins shall be protected from sediment-laden runoff until the completion of all construction operations that may contribute to the inlet.

E. Temporary Seeding and Mulching

Areas opened by construction operations, that are not anticipated to be dressed and receive final grassing treatment within thirty days, shall be seeded with a quick-growing grass species which will provide an early cover during the season in which it is planted, and will not later compete with permanent grassing. The rate of seeding shall be 30 pounds per acre. Slopes steeper than 4:1 shall receive mulching of approximately 2 inches loose material or mulch material cut into the soil of the seeded area to a depth of four inches.

F. Temporary Grassing

As required by the City of St. Cloud, the seed or mulch and seeded area shall be rolled and watered to assure optimum growing conditions, for the establishment of a good grass cover.

G. Temporary Regrassing

If, after fourteen days, the temporary grassed areas have not attained a minimum of 75% good grass cover, the area will be reseeded and additional seed applied sufficiently to establish the desired vegetation cover. 75% of good stand of grass must be established within 90 days of the initial treatment or area shall be seeded.

H. Maintenance

All features of the project designed and constructed to prevent erosion and sediment, shall be maintained during the project construction life, as to functions as they were originally designed and constructed. The contractor is responsible for keeping any temporary grass in a mowed condition.

Permanent Erosion Control

The erosion control facilities of the project shall be designed to minimize the impact of off-site facilities. All stormwater discharge from the project limits shall be routed through detention basins to trap suspended sediments, and discharge facilities from these basins shall be provided with a drainage device to trap fluvial debris. A copy of the site's FDEP NPDES permit shall be provided to the Public Services Department prior to Notice to Proceed being issued.

A. Permanent Seeding

All areas which have been disturbed by construction shall, at a minimum, be fertilized and seeded in accordance with City of St. Cloud Road Construction Standards

B. Permanent Seeding and Mulching

In addition to the minimum requirements above, slopes from 3:1 to 7:1, inclusive, will be mulched with a uniform thickness of approximately two inches, loose material, of mulch material incorporated into the soil by mixing to a depth of four inches.

C. Permanent Seeding

All maintained/infiltration basins shall be solid sodded. All exposed areas, including public rights-of-way, with slopes steeper than 4:1 shall be solid sodded.

D. Strip Seeding

Strip side, 1 foot wide or greater, shall be placed adjacent to all curbs, walkways and pavement. In areas with a sidewalk, the entire area between the sidewalk and the back of curb, and/or pavement, shall be sodded.

E. Regrassing

All graded areas will be maintained to assure a good stand and sufficient ground cover to minimize erosion. If, after 60 days, an adequate ground cover has not been established, the area will be reseeded.

F. Additional Fertilizer

Grassed areas, not accepted within 90 days of their completion, shall be re-fertilized at an application rate of 250 lbs per acre.

G. Maintenance

Prior to the project being accepted by the City, the contractor is responsible for mowing the grass to remain in compliance with the City Code.