

5.0 EROSION AND SEDIMENT CONTROL

5.1 Erosion and Sediment Control Notes

The following General Notes shall appear on the first sheet of Erosion and Sediment Control Plans:

GENERAL NOTES

1. Equipment and workers for placement of erosion control shall be available at all times. Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid construction of temporary devices when rain is imminent.
2. The design civil engineer shall supervise erosion control work and insure that work is in accordance with the approved erosion control plan.
3. All removable protective devices shown on the erosion control plan shall be in place at the end of each working day when rain probability exists.
4. After a rainstorm, all silt and debris shall be removed from check berms, silt fences, desilting basins, etc.
5. Graded areas around the tract perimeter must drain away from the face of slope at the conclusion of each working day.
6. The Contractor shall be responsible and shall take necessary precautions to prevent public trespass onto areas where impounded water creates a hazardous condition.
7. Desilting basins, when utilized, are to be constructed as grading of individual areas are complete per the rough grading plans.
8. Temporary erosion protection is required for manufactured slopes prior to permanent planting.
9. Areas shall be maintained in such a state that fire access shall be maintained at all times (including access to neighboring properties).
10. No obstruction or disturbance of natural drainage courses or existing storm drain inlets shall occur during the rainy season, unless adequate temporary/permanent drainage facilities have been approved and installed to carry surface water to a street, storm drain or natural water course.
11. The Contractor shall conduct his operations in such a manner that storm runoff will be contained within the project or channeled into the storm drain system which serves the runoff area. Storm runoff from one area shall not be allowed to divert to another runoff area.
12. Conformance with the erosion control plan does not relieve the Contractor from his responsibilities to protect adjacent properties from possible damage which may arise as a result of the construction of this project. Erosion control shall consist of, but not be limited to, constructing such facilities and any other measures which are necessary to prevent, control and abate water, mud and erosion damage to public and private property as a result of the construction of this project.
13. Slopes constructed prior to October 1 shall be treated for erosion control prior to October 15. Slopes constructed after October 1 shall be treated for erosion control as the construction of slope progresses in increments of 25 feet or less measured vertically.

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14. Fill areas, while being brought up to grade and during periods of completion prior to final grade, shall be protected by various measures to eliminate erosion and the siltation of downstream facilities and adjacent areas. These measures may include, but shall not be limited to: temporary downdrains, either in the form of pipes or paved ditches with protected outfall areas; graded berms around areas to eliminate erosion of fill slopes by surface runoff; confined ponding areas to desilt runoff; temporary check dams in toe of slope ditches to desilt runoff; protection such as sand bags around inlets which have not been brought up to grade; and earth berms and appropriate grading to direct drainage away from the edge of the top of slopes shall be constructed and maintained on those fill areas where earthwork operations are not in progress.
15. Top of cut brow ditches, where required on the plans, shall be constructed prior to exceeding 12 feet of cut measured vertically.
16. Clearing and grubbing should be limited to areas that will receive immediate grading. Erosion control measures will be required to protect areas which have been cleared and grubbed prior to grading operation, and which are subject to runoff during the period of the rainy season. These measures may include but shall not be limited to: graded ditches; brush barriers and silt fences. Care shall be exercised to preserve vegetation beyond limits of grading.
17. At the completion of rough grading but during underground utility installation, erosion control devices need not be placed in areas of active construction but shall be available on-site. When rain probability exists erosion control measures shall be implemented.
18. At the completion of street paving, erosion control shall be placed in accordance with one of the following alternates:
 - a. Sandbag velocity reducers, a minimum of 2 sandbags high, shall be placed at an angle of 45° with the curb and shall begin at the curb and extend a distance of 8' from the curb (measured perpendicular to the curb). The distance between velocity reducers shall be as follows:

STREET GRADEDISTANCE

Less than 4% 200' maximum
4% to 9% 100' maximum
Greater than 9% 50' maximum

Note that hay bales shall not be used on paved streets.

- b. Provide erosion control on individual lots including, but not limited to sandbag velocity reducers on the lots and in the parkway and continuous placement of sandbags along the top of curb.
19. City approval of plans does not relieve the developer from responsibility for the correction of error and omission discovered during construction. Upon request, the required plan revisions shall be promptly submitted to the City Engineer for approval.