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DATE: 8/21/13

SCALE: HOR. 1"=30'
VERT. none

FILENAME: Unit 21 Site Plan

SITE PLAN FOR:
UNIT 21
ARIA'S WAY
PHASE 4
CONCORD TOWNSHIP - LAKE COUNTY - OHIO

Erosion and Sediment Control Schedule

General

Any sediment-laden groundwater encountered during construction shall be treated prior to discharge.

Ingress-Egress

A stone access drive complete with under lying geo-textile fabric for ingress and egress at the site shall be installed if there is not already an existing access drive. This drive shall be the only entrance and exit to the site.

Silt Fence

All silt fence shall be installed prior to any earthwork activities at the site in the locations shown on the site plan as well as along the front of any lot that slopes towards the street. On sites where a perimeter of temporary seeding (or pre-existing vegetation) cannot be maintained due to limited space, a complete perimeter of silt fence shall be established.

Temporary Seeding
Disturbed areas of the site that are to remain idle for more than twenty one (21) days shall be properly seeded and straw mulched within seven (7) days of completion of initial grading. Temporary seeding and mulching of a thirty (30) foot strip of the entire front of the lot shall be maintained on the site once initial grading is complete.

Stabilization of critical areas within fifty (50) feet of any stream or wetland shall be complete within two (2) days of the disturbance if the site is to remain inactive for longer than fourteen (14) days.

Following completion of the construction activities, and the contractor leaving the site, the site soils must be fully stabilized by temporary seeding and/or mulching (or other acceptable process).

Mulching
Straw-mulch shall be applied at a rate of 1 bale per every ten (10) feet of curb, at a width of thirty (30) feet (or 1 bale/300 sqft.) of the entire length of the lot. Wood chips may also be used but must be spread at a minimum depth of four inches over the thirty-foot width and must be accompanied by a properly installed silt fence.

Maintenance

Erosion and sediment controls shall be inspected every seven (7) days or within 24 hours of a 0.5" or greater rainfall event. Necessary repairs shall be made at this time.

Note:

All erosion and sediment control specifications, applications, and timetables are based on the descriptions and standards of The Ohio Department of Natural Resources Rainwater and Land Development Manual".

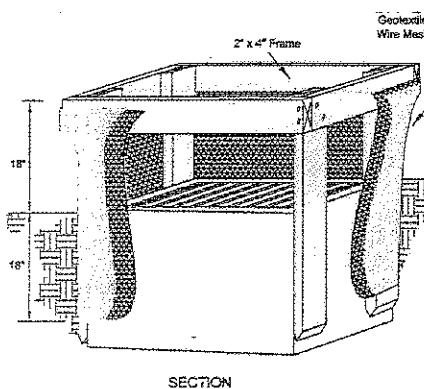
The specified erosion and sediment control standards are the general guidelines and shall not limit the right of the county to impose, at any time, additional, more stringent requirements. Nor shall the standards limit the right of the county to waive, in writing, individual requirements.

Inlet Protection

Inlet protection shall be constructed before the storm drain becomes operational. The earth around the inlet shall be excavated completely to a depth of at least 18 inches. The 2 by 4 inch frame shall be driven 1 foot into the ground and the top portion of the 2 by 4 inch frame assembled using the overlap joint shown (see diagram to right). The top of the frame shall be 6 inches below grade of adjacent road if ponded water would pose a safety hazard to traffic. Geotextile shall have an equivalent opening size of 20-40 inches below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.

Mulching
Straw mulch shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically as the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 sq. ft. sections and spread two 45-lb. bales of straw in each section.

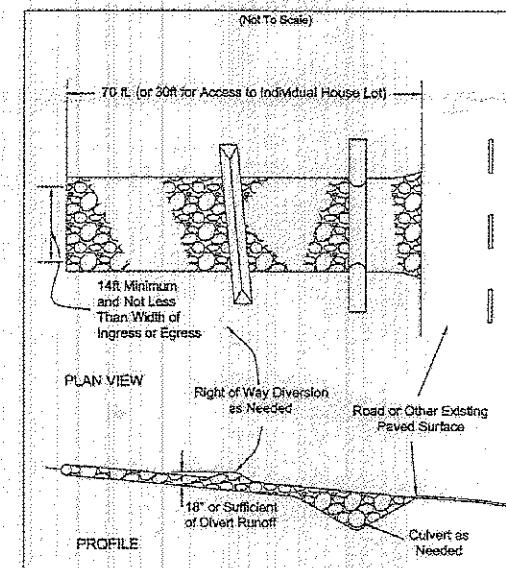
Specifications for Geotextile Inlet Protection



1. Inlet protection shall be constructed either before uproot land disturbance begins or before the inlet becomes functional.
2. The earth around the inlet shall be excavated completely to a depth of at least 18 inches.
3. The wooden frame shall be constructed of 2-inch by 4-inch construction grade lumber. The 2-inch by 4-inch posts shall be driven one (1) ft. into the ground at four corners of the inlet and the top portion of 2-inches by 4-inches frame assembled using the overlap joint shown. The top of the frame shall be at least 6 inches below adjacent roads if ponded water will pose a safety hazard to traffic.
4. Wire mesh shall be placed around the inlet or check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression. The top of the check shall be at least 6 inches higher than the top of the frame.
5. Geotextile material shall have an equivalent opening size of 20-40 inches and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 inches below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.
6. Backfill shall be placed around the inlet in compacted 6-inch layers until the earth is over with slight elevation on ends and top elevation on sides.

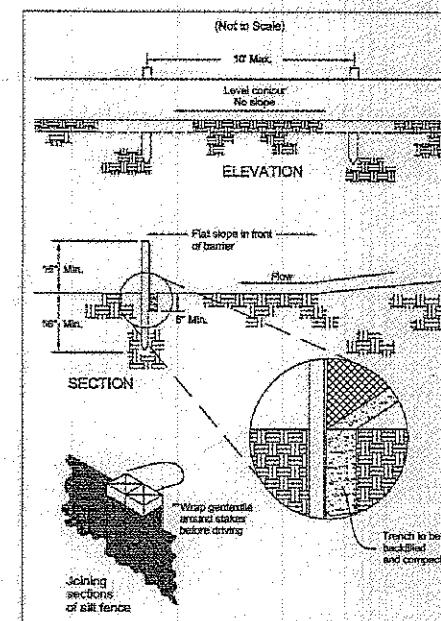
CHAPTER 6 Sediment Controls 39

Specifications for Construction Entrance



CHAPTER 7 Soil Stabilization 19

Specifications for Silt Fence



CHAPTER 6 Sediment Controls 33

Specifications for Silt Fence

1. Silt fence shall be constructed before uproot land disturbance begins.
2. All silt fence shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions that may carry small concentrated flows to the silt fence are dissipated along its length.
3. Ends of the silt fence shall be brought upscale slightly so that water poised by the silt fence will be prevented from flowing around the ends.
4. Silt fence shall be placed on the flattest area available.
5. Where possible, vegetation shall be preserved for 5 feet (or as much as possible) upstream from the silt fence. If vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.
6. The height of the silt fence shall be a minimum of 16 inches above the original ground surface.
7. The silt fence shall be placed in an excavated or sliced trench to a maximum of 6 inches deep. The trench shall be made with a trencher, cable laying machine, slicing machine, or other suitable device that will ensure an adequately uniform trench depth.
8. The silt fence shall be placed with the stakes on the downstream side of the profile. A minimum of 6 inches of protective rock shall be below the ground surface. Barriers material shall be on the bottom of the 6-inch deep trench. The trench shall be backfilled and compacted on both sides of the fence.

9. Silt fence fabric - See chart below.

Table 6.3.2 Minimum criteria for Silt Fence Fabrics (2007, 2002)	
STANDARD PROPERTIES TEST METHODS	TEST METHODS
Minimum Tensile Strength	ASTM D 533.0
Minimum Tensile Strength of 50 lbs	ASTM D 4522
Minimum Tensile Strength	ASTM D 533.0
Minimum Tensile Strength of 50 lbs	ASTM D 4522
Minimum Tensile Strength	ASTM D 533.0
Minimum Tensile Strength	ASTM D 4522
Apparent Opening Size	ASTM D 4761
Apparent Opening Size	ASTM D 4761
Minimum Permeability	ASTM D 4591
UV Exposure Strength Retention	70% ASTM D 4355

CONTACT:
MARK FAIR

CONTRACT No.
12032

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