

TOWN OF MONTGOMERY
110 Bracken Road
Montgomery, NY 12549

STANDARD EROSION AND SEDIMENT CONTROL PLAN
FOR GRADING AND EARTH DISTURBANCE

For
Single Lot Construction
And
Minor Subdivisions

This Standard Plan is issued by the Town of Montgomery and is subject to any special conditions listed on the application.

New York State Law requires that provisions to control erosion and sediment shall be included for all construction where any excavation, stripping, filling, grading or earth movement takes place. As required by State law, building permits cannot be issued until such erosion and sediment control provisions are approved.

Owners' and applicants' are advised that building permits are not issued until this plan is implemented and site approval has been granted.

1. This Standard Plan may only be utilized for minor grading activities associated with minor commercial and residential construction for earth disturbances where all the following conditions are met:
 - a. The lot is on a paved, graveled, or publicly maintained street where storm drain facilities are in operation and road side ditches stabilized.
 - b. Stormwater management facilities are not required on the lot. (For projects where facilities have been designed, this plan represents a starting point, but is not sufficiently comprehensive.)
 - c. No more than 15,000 square feet will be disturbed during development of any one lot, but in any critical area, not more than 5,000 square feet will be disturbed.
 - d. Steep slopes with a grade of 15% or greater will not be disturbed. A 25 foot undisturbed buffer must be maintained from the top of 25% or greater slopes within a sensitive area.

- e. Development for minor subdivision will take place on not more than 2 lots at one time.
- f. Any proposed grading will not impair existing surface drainage, constitute a potential erosion hazard, or act as a source of sedimentation to any adjacent land or water course, or affect any sediment and erosion control plan previously approved by the Town of Montgomery.
- g. Changes in grade or removal of vegetation shall not take place in established buffers or within 100 feet of the mean high water line of a body of water, except for approved buffer management plans disturbing less than 5000 square feet and the establishment of approved shoreline erosion control projects where no grading is to take place.
- h. The proposed construction is not subject to a separate erosion and sediment control plan.

2. CONDITIONS

- a. Access to the site and this plan shall be available at all times for inspection by representatives of the Town of Montgomery.
- b. The applicant/permittee shall notify the Town of Montgomery at least 48 hours prior to commencing clearing or grading. (Telephone Number: 845-457-2640)
- c. This Standard Plan is valid only if development of the lot proceeds in accordance with State laws and the rules and regulations governing sediment control, land use, and environmental impact.
- d. In the event that the applicant fails to provide adequate sediment controls according to the provisions of this plan and standards and specifications, or if the sediment controls installed on the site do not provide adequate protection, the Town of Montgomery Code Enforcement Officer and the Town Engineer may stop all work at the referenced site and require corrective actions.
- e. This standard plan is subject to revocation by the Town of Montgomery or the Code Enforcement Officer whenever determination is made, and after notice is given, that the site is in violation of the rules and regulations promulgated under State law and/or the conditions specified by this plan.

- f. If there is any concurrent construction on adjoining lots, the Town of Montgomery may take individual and separate actions to assure sediment controls are in compliance with State laws and the approved Erosion and Sediment Control Plan.
- g. Nothing herein relieves the applicant/permittee from complying with any and all of the State laws and regulations.
- h. This Standard Plan is valid for the life of the building permit or a period of 6 months if not associated with a building permit.

3. GRADING

- a. Initial clearing and earth disturbance shall be limited to that necessary to install sediment control measures. Excavation for footings, clearing, or other earth disturbance may only take place after the sediment and erosion controls are installed.
- b. The permanent driveway or entrance location shall be used as a stabilized construction entrance. Two inch stone shall be placed at a minimum 6 inch depth, 30 feet long, and 10 feet wide. The entrance shall be top dressed with stone as necessary to prevent tracking of sediment onto public streets or right-of-way. Sediment tracked onto public streets must be removed or cleaned on a daily basis. All vehicular traffic onto the site will use this stabilized construction entrance.
- c. At any location where surface runoff from disturbed or graded areas may flow off the construction area, sediment control measures must be installed including silt fence or straw bales to prevent sediment from being transported off site. No grading, filling or other disturbance is allowed within existing drainage swales.
- d. Swales or other areas that transport concentrated flow shall be sodded. Downspout or sump pump discharges must have acceptable outfalls that are protected by splashblocks, sod, or piping as required by site conditions (i.e., no concentrated flow directed over fill slopes).
- e. Surface flows over existing or proposed cut and fill slopes shall be controlled by either redirecting flows from traversing the slopes or by installing mechanical devices to safely lower water down slope without causing erosion. Any percolating water resulting from any development activities must be properly conveyed to an acceptable outfall.

- f. Final graded slopes shall be no steeper than 4 horizontal units to 1 vertical unit (25%), nor higher than a 5 feet without prior approval.
- g. All materials originating from development of the lot and public right-of-way shall be removed immediately to an acceptable disposal facility.
- h. Final site drainage shall be such to prevent erosion, concentrated flows to adjacent properties, uncontrolled overflow, and ponding. Positive drainage away from the foundation must be provided in accordance with the New York State Code. The foundation must extend at least 8 inches above finished grade and a minimum slope of at least 0.5 inches per foot of fall must be maintained away from the foundation.

4. STABILIZATION

Following initial soil disturbance and re-disturbance, permanent or temporary stabilization shall be completed within:

- a. Seven calendar days from the surface of all perimeter controls and perimeter slopes.
- b. Fourteen calendar days for all approved stock piles and other disturbed or graded areas provided construction grading activity is not continually ongoing in these locations.

5. SPECIFICATIONS

Specifications regarding silt fence, straw bale dikes, earth dikes, stone outlet structures, stone construction entrances, temporary and permanent stabilization practices, and any other sediment and erosion control practices, are contained in the current New York State Guidelines for Urban Erosion and Sediment Control as amended and revised.

Specifically, the following limitations for silt-fencing may not be exceeded:

- 1) Maximum allowable slope length of the contributing runoff and maximum silt fence length.

<u>SLOPE</u>	<u>SLOPE LENGTH</u>	<u>SILT FENCE LENGTH</u>
2:1 & Steeper	20 ft.	125 ft.
3:1 to 1:1	40 ft.	250 ft.
5:1 to 3:1	60 ft.	500 ft.
10:1 to 5:1	100 ft.	750 ft.
50:1 to 10:1	125 ft.	1000 ft.
Flatter than 50:1	300 ft.	Unlimited

- 2) Maximum drainage area may not exceed ½ acre per 100 feet of silt fence.
- 3) Silt fence must be placed on or parallel to contours where there is no concentration of water flowing to the silt fence and erosion will occur in the form of sheet erosion. The area below the silt fence must be undisturbed ground.
- 4) Silt fence material and installation complies with the Standard Drawing.

6. PLAN IMPLEMENTATION

- a. The appropriate sample sediment control drawing must be implemented as depicted by site slope and drainage conditions.
- b. A building permit shall not be issued until sediment control approval has been obtained. This Standard Plan is a condition and part of the building permit.

7. APPROVAL

Approved by: _____

BRUCE E. WILSON
Code Enforcement Official

MICHAEL J. AIELLO, P.E.
Engineer for the Town

November 4, 2002

This Standard Plan was adopted by resolution of the Town of Montgomery Planning Board on October 28, 2002 and has been approved by the offices of the Town Building Department and Engineer for the Town and has been filed with the Town Clerk of the Town of Montgomery.

- Addenda:
1. Vegative Stabilization Spec.
 2. Stabilized Construction Entrance Detail and Spec.
 3. Silt Fence Detail and Spec.
 4. Hay Bale Dike Detail and Spec.
 5. Check Dam Detail and Spec.

w/Addenda

ADDENDUM 1

DETAILS AND SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT FOR STANDARD PLAN

1. **Permanent Seeding**

Seedbed Preparation: Area to be seeded shall be loose and friable to a depth of at least 3 inches. The top layer shall be loosened by raking, disking or other acceptable means before seeding occurs. For sites less than 5 acres, apply 100 pounds of dolomitic limestone and 21 pounds of 10-20-20 fertilizer per 1,000 square feet. Harrow or disk lime and fertilizer into the soil to a depth of at least 3 inches on slopes flatter than 3:1.

Seeding: Apply 5-6 pounds per 1,000 square feet of seed mix between February 1 and May 15 or between August 15 and October 31. Apply seed uniformly on a moist firm seedbed with a cyclone seeded drill, cultipacker seeder or hydroseeder (slurry includes seeds and fertilizer, recommended on steep slopes only). Maximum seed depth should be $\frac{1}{4}$ inch in clayey soils and $\frac{1}{2}$ inch in sandy soils when using other than the hydroseeder method. Irrigate if soil moisture is deficient to support adequate growth until vegetations firmly established. Select seed mixtures from Section 3, New York State Guidelines for Urban Erosion and Sediment Control.

Mulching: Mulch shall be applied to all seeded areas immediately after seeding. During the time periods when seeding is not permitted, mulch shall be applied immediately after grading.

Mulch shall be unrotted, unchopped, small grain straw applied at a rate of 2 tons per acre or 90 pounds per 1,000 square feet (2 bales). If a mulch anchoring tool is used, apply 2.5 tons per acre. Mulch materials shall be relatively free of all kinds of weeds and shall be completely free of prohibited noxious weeds. Spread mulch uniformly, mechanically, or by hand to a depth of 1-2 inches.

Securing Straw Mulch: Straw mulch shall be secured immediately following mulch application to minimize movement by wind or water. The following methods are permitted:

- a. Use a mulch anchoring tool which is designed to punch and anchor fabric type mulch into the soil surface to a minimum depth of 2 inches. This is the most effective method for securing mulch, however, it is limited to relatively flat areas where equipment can operate safely.
- b. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. If mixed with water, use 50 pounds of wood cellulose fiber per 100 gallons of water.
- c. Liquid binders may be used and applied heavier at the edges where wind catches mulch, such as in valleys and on crests of slopes. The remainder of the area should appear uniform after binder application.
- d. Lightweight netting, may be used to secure mulch. The netting will be stapled to the ground according to manufacturers' recommendations.

2. **Temporary Seeding:**

Lime: 100 pounds of dolomitic limestone per 1,000 square feet.

Fertilizer: 15 pounds of 10-10-10 per 1,000 square feet.

Seed: Perennial rye – 0.92 pounds per 1,000 square feet (February 1 through May 15 or August 15 through November 1).

Mulch: Same as above.

3. **Fill:**

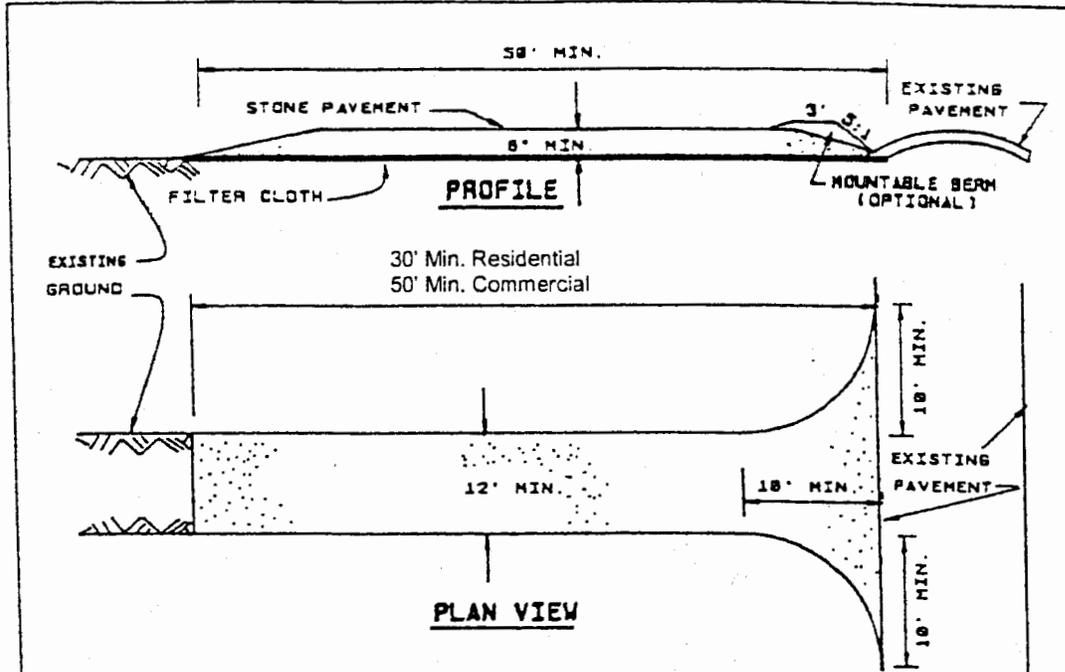
No fills may be placed on frozen ground. All fill to be placed in approximately horizontal layers, each layer having a loose thickness of not more than 8 inches. All fill in roadways and parking areas is to be classified Type 2 compacted to 90% density; compaction to be determined by ASTM D-1557-66T (Modified Proctor). Any fill within the building area is to be compacted to a minimum of 95% as determined by methods previously mentioned. Fills for pond embankments shall be compacted as per the project engineer's specifications. All other fills shall be compacted sufficiently so as to be stable and prevent erosion and slippage.

4. **Permanent Sod:**

Installation of sod should follow permanent seeding dates. Permanent sod is to be state approved sod; lime and fertilizer per permanent seeding specifications and lightly irrigate soil prior to laying sod. Sod is to be laid on the contour with all ends tightly abutting. Joints are to be staggered between rows. Water and roll or tamp sod to insure positive root contact with the soil. All slopes steeper than 3:1, as shown, are to be permanently sodded or protected with an approved erosion control netting. Additional watering for establishment may be required. Sod is not to be applied on frozen ground. Sod shall not be harvested or transplanted when moisture content (dry or wet) and/or extreme temperature may adversely affect its survival. In the absence of adequate rainfall, irrigation should be performed to insure established sod.

NOTE: This plan does not preclude the applicant from meeting all of the requirements of the New York State "Guidelines for Urban Erosion and Sediment Control".

**Figure 5A.38
Stabilized Construction Entrance Details**



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN (6) INCHES.
4. WIDTH - TWELVE (12) MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE SYRACUSE, NEW YORK	STABILIZED CONSTRUCTION ENTRANCE	STANDARD SYMBOL

Figure 5A.9
Silt Fence Details

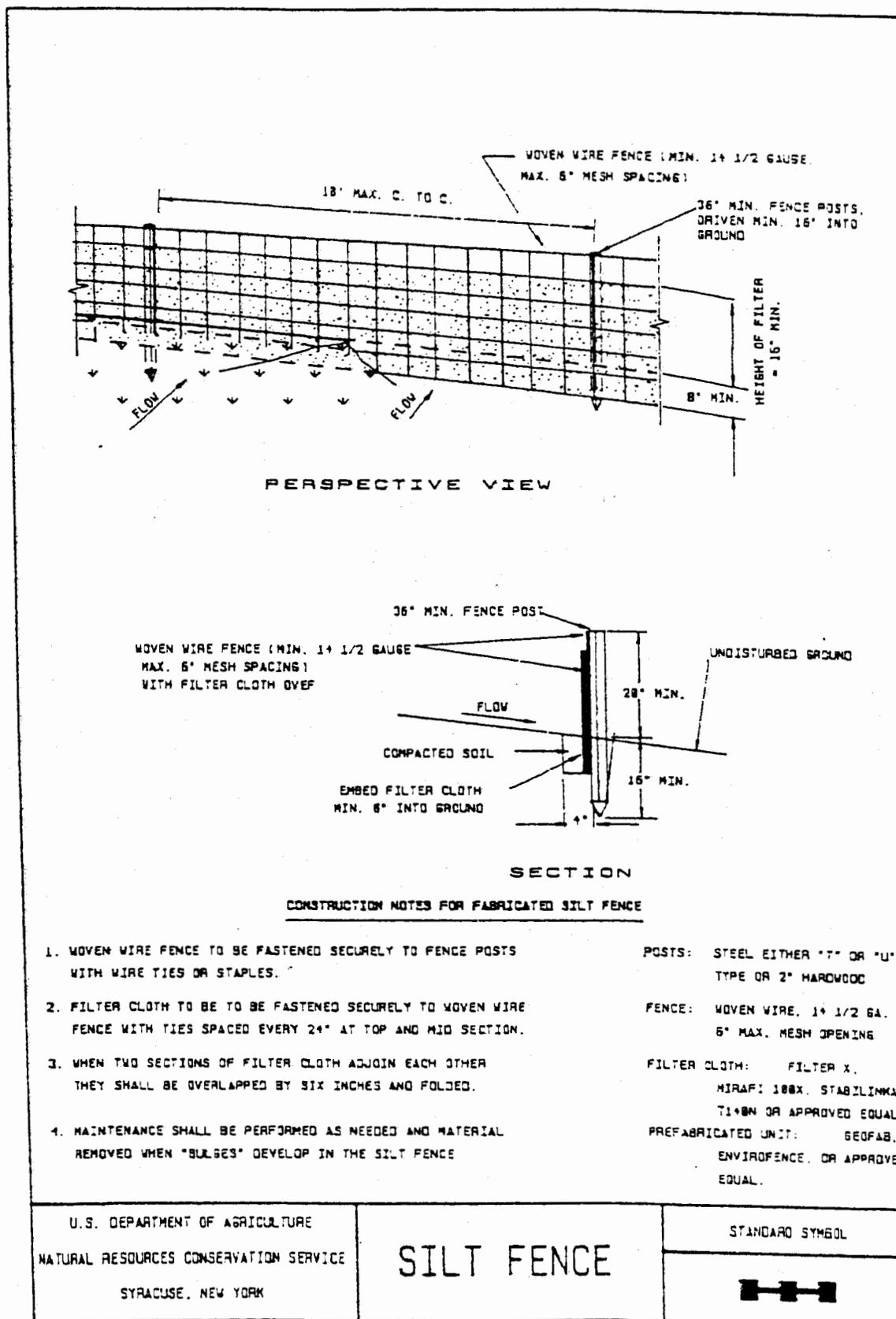
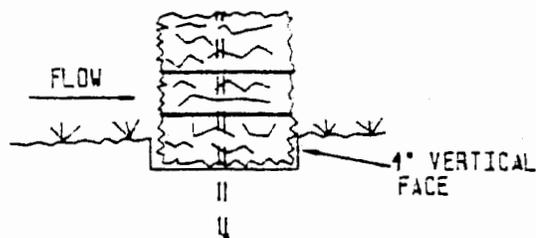
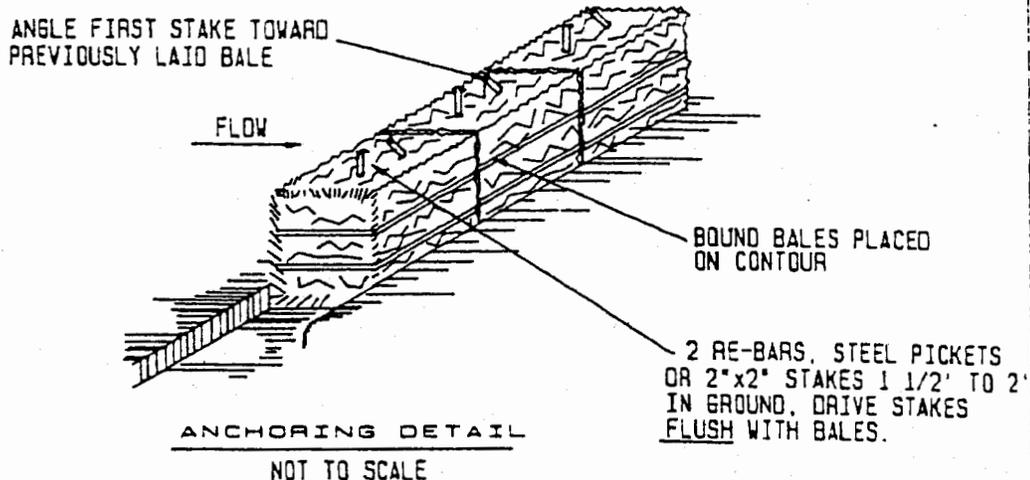


Figure 5A.8 Straw Bale Dike Details



BEDDING DETAIL

DRAINAGE AREA NO MORE THAN 1/4 AC. PER 100 FEET OF STRAW BALE DIKE
FOR SLOPES LESS THAN 25%



ANCHORING DETAIL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

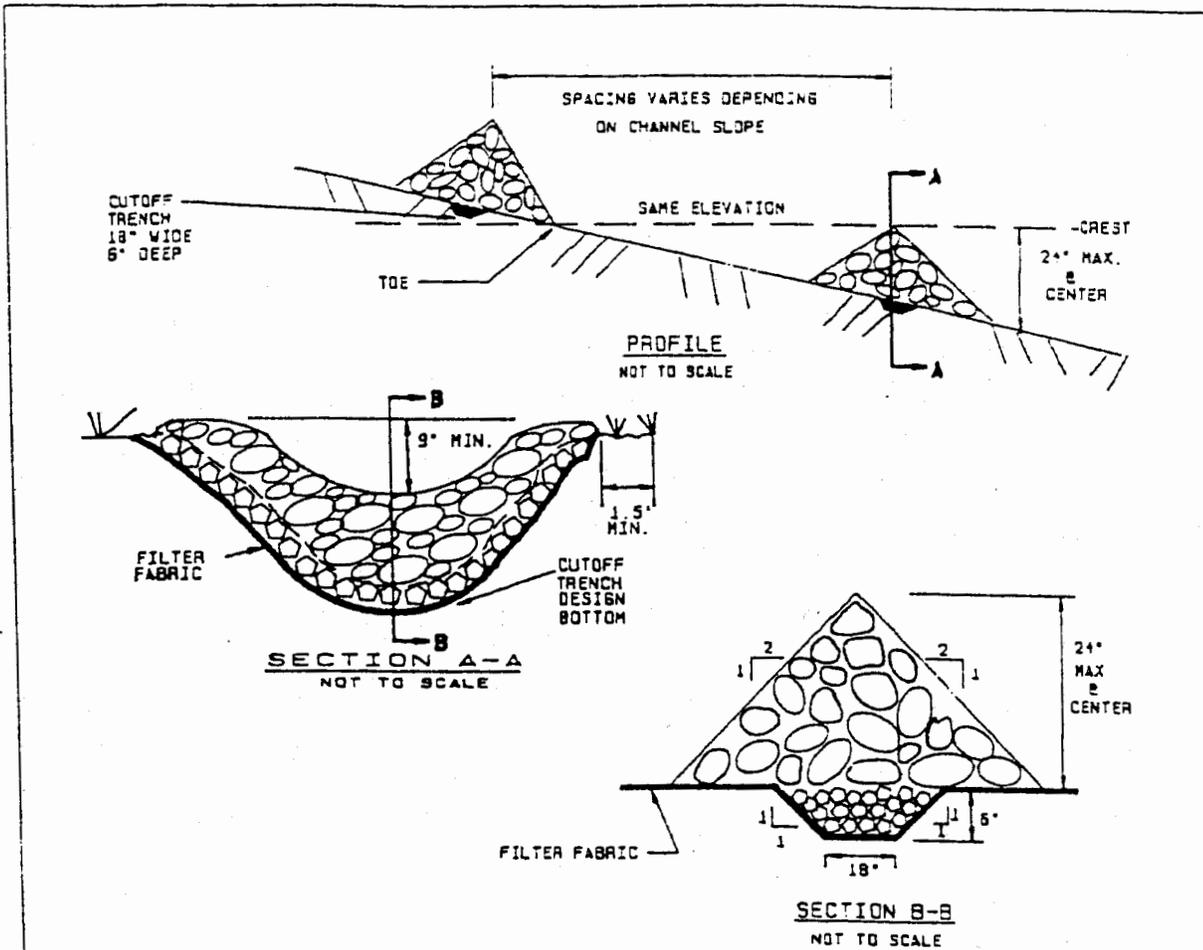
1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE SYRACUSE, NEW YORK	STRAW BALE DIKE	STANDARD SYMBOL <hr style="border-top: 1px dashed black;"/> SBC
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ABSOLUTELY NOT FOR DRAINAGE CHANNELS

FOR DRAINAGE CHANNELS

Figure 5A.10
Check Dam Details



CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

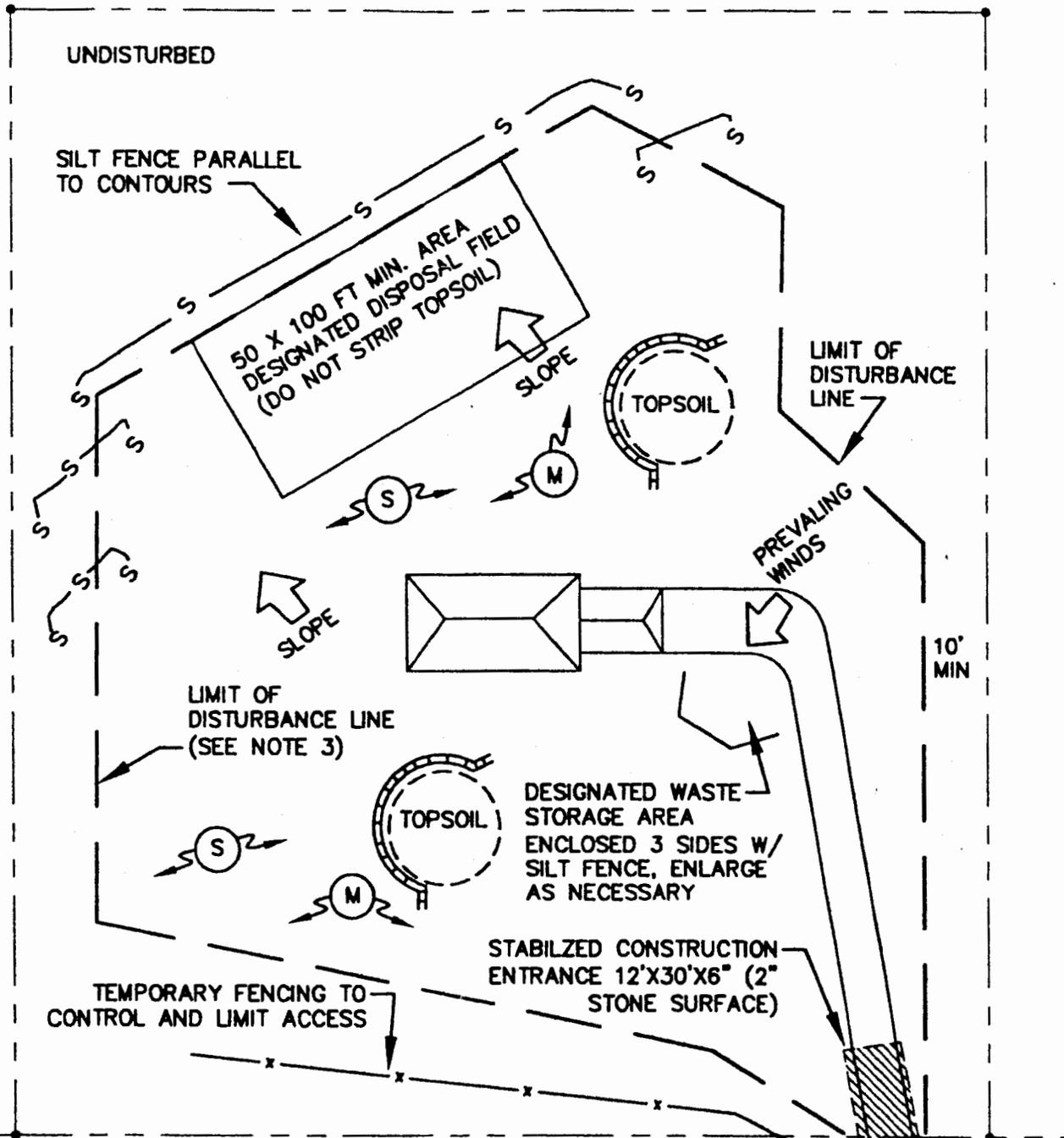
MAXIMUM DRAINAGE AREA 2 ACRES.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
SYRACUSE, NEW YORK

CHECK DAM

STANDARD SYMBOL





NOTES:

1. STREET TO BE CLEANED DAILY.
2. SEED/MULCH REQUIRED WITHIN 7 DAYS OR BEFORE ANY RAIN EVENT.
3. AREA OF DISTURBANCE TO BE MINIMIZED.

(S) SEEDING (M) MULCH [Hatched] HAYBALE

TYPICAL LOT EROSION & SEDIMENT CONTROL DETAIL
 NOT TO SCALE