

General Notes - Specifications

1. All disturbed areas shall have Temporary Seeding and Mulch applied unless otherwise specified on the Erosion Control Plan.

2. FERTILIZER

Fertilizer and agricultural limestone shall be spread uniformly over the area to be seeded. They shall be mixed into the top 2 inches of soil with a disk harrow, rotary tiller, or other approved equipment. 10-10-10 Fertilizer shall be spread at the rate of 500 pounds per acre (25 pounds per 1,000 square feet), and agricultural limestone at the rate of 100 pounds per acre unless otherwise noted.

3. TEMPORARY SEEDING

The areas where stripping, cuts, or fills have been made shall be seeded for silt and erosion control with one of the following methods:

- | | |
|---|-----------------------------|
| A. Early Spring Mix (3/1 - 4/15) | 100% Spring Daisies |
| Seeding Rate | 100 lbs / acre |
| B. Spring / Fall Mix (3/1 - 5/1, 8/1-9/1) | 100% Annual Ryegrass |
| Seeding Rate | 100 lbs / acre |
| C. Fall Mix (9/15 - 10/30) | 100% Perennial Wheat or Rye |
| Seeding Rate | 150 lbs / acre |
| D. Late Spring - Summer (5/1 - 7/30) | 100% Subgrass |
| Seeding Rate | 35 lbs / acre |

The temporary seeding shall be applied within 15 days on areas that are not planned to be disturbed for 30 days or more.

4. PERMANENT SEEDING

Permanently seed all final grade areas (e.g., landscape berms, drainage swales, yard areas, erosion control structures, etc.) as each area is complete, and all other areas where additional work is not scheduled for a period of one year or more.

Install all necessary erosion control devices prior to seeding. Grade the site adding topsoil as needed to eliminate depressions and for establishment of vegetation. Apply fertilizer (unless otherwise advised, apply 12-12-12 Fertilizer at a rate of 400-600 lbs per acre) and the seed as needed, working into the top 2-4 inches of the topsoil.

Seed Mixture

A. Building Area and Pond Area along fore slope of embankment, across top of embankment and on entire pond slope to 20 feet beyond top of slope.

- | | |
|--------------------|---------------------|
| Perennial ryegrass | 45 to 60 lbs / acre |
| Kentucky Bluegrass | 70 to 90 lbs / acre |

B. All other areas

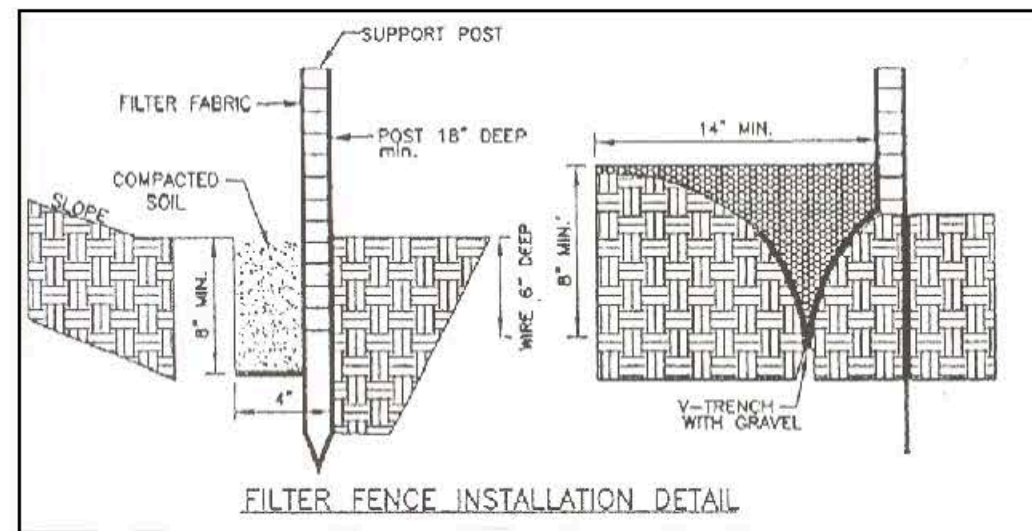
- | | |
|--------------------|---------------------|
| Perennial ryegrass | 15 to 30 lbs / acre |
| tall fescue | 25 to 40 lbs / acre |

5. MULCHING

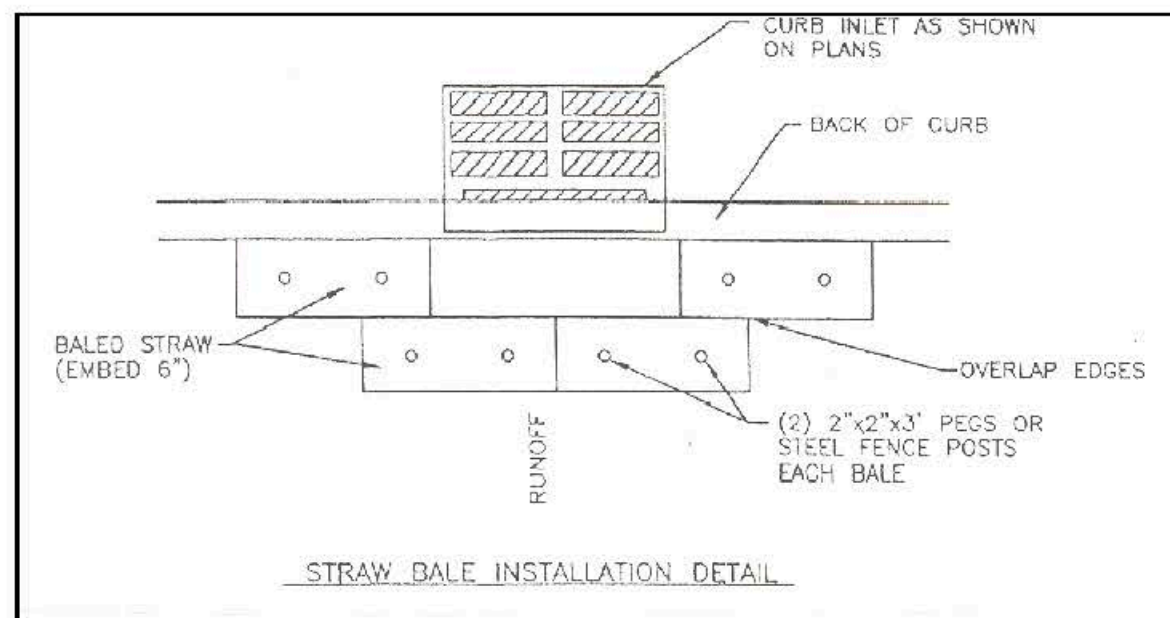
Application of mulching material immediately after temporary and permanent seeding is required. See mixtures may be applied as a part of a hydroseeding slurry containing wood fiber on slopes flatter than 4 horizontal to 1 (vertical), and less than 300 feet in length, or with straw mulch.

Straw or mulch as approved by the Consultant shall be applied at a rate of 90 pounds per 1,000 square feet (2 - 3 bales) or 2 tons per acre. Mulch shall be anchored utilizing nylon 1-inch square mesh netting installed according to manufacturer's recommendations, or a liquid binder. Binding of straw mulch may be accomplished as follows:

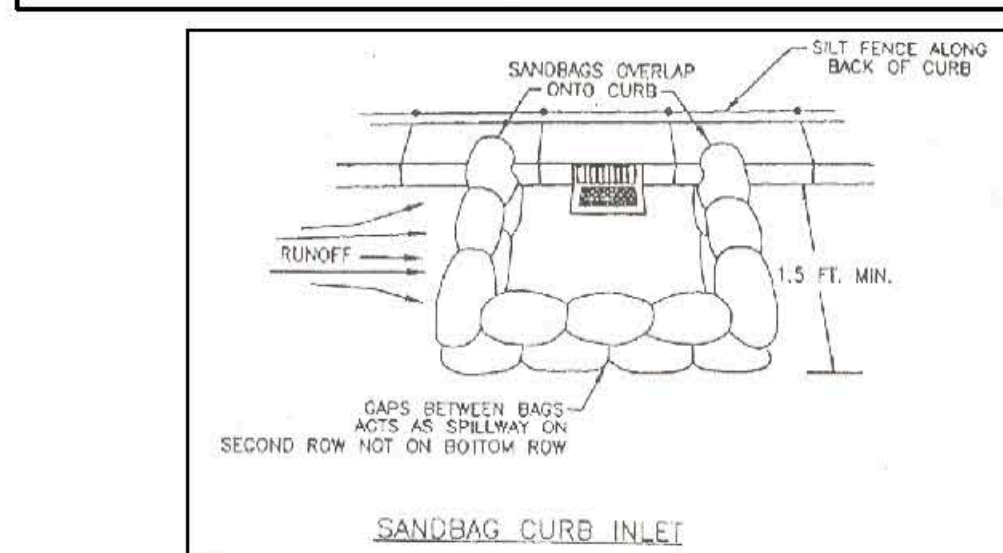
Refer to Erosion Control Construction Sequence Schedule for maintenance.



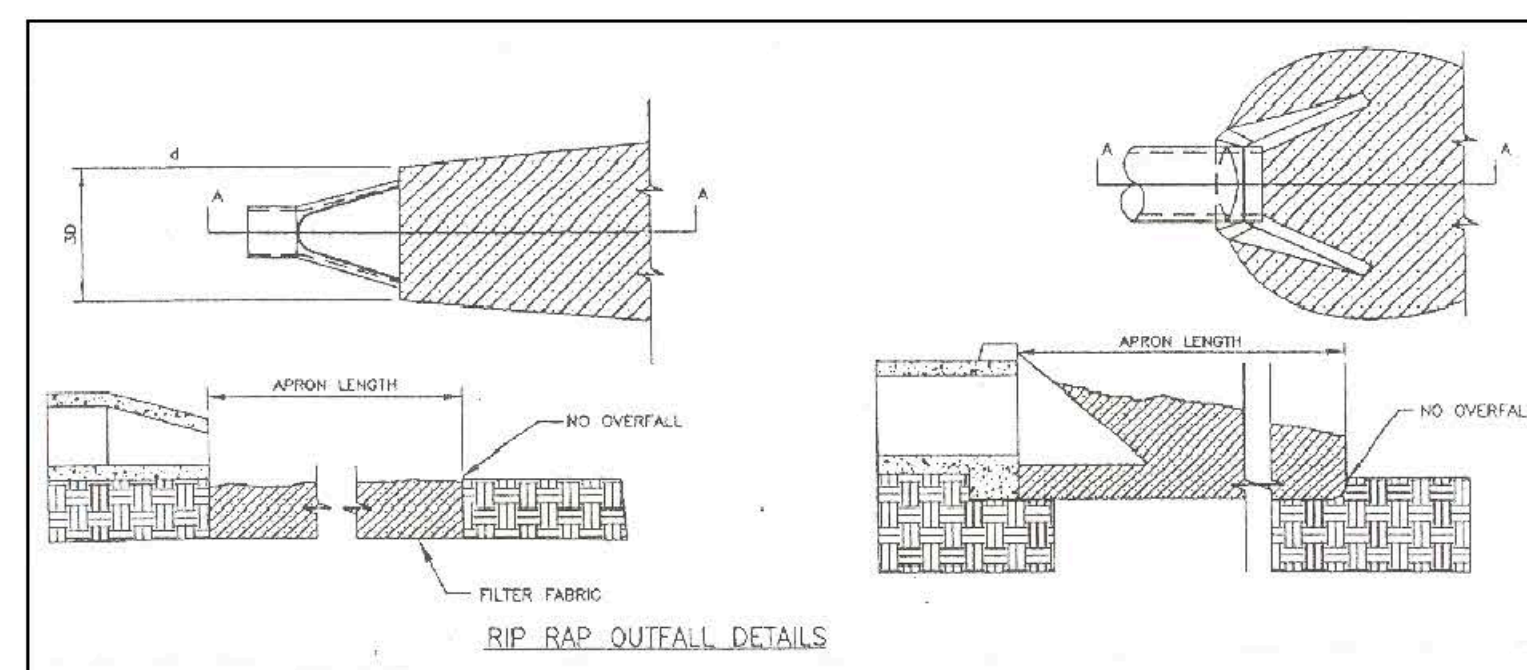
FILTER FENCE INSTALLATION DETAIL



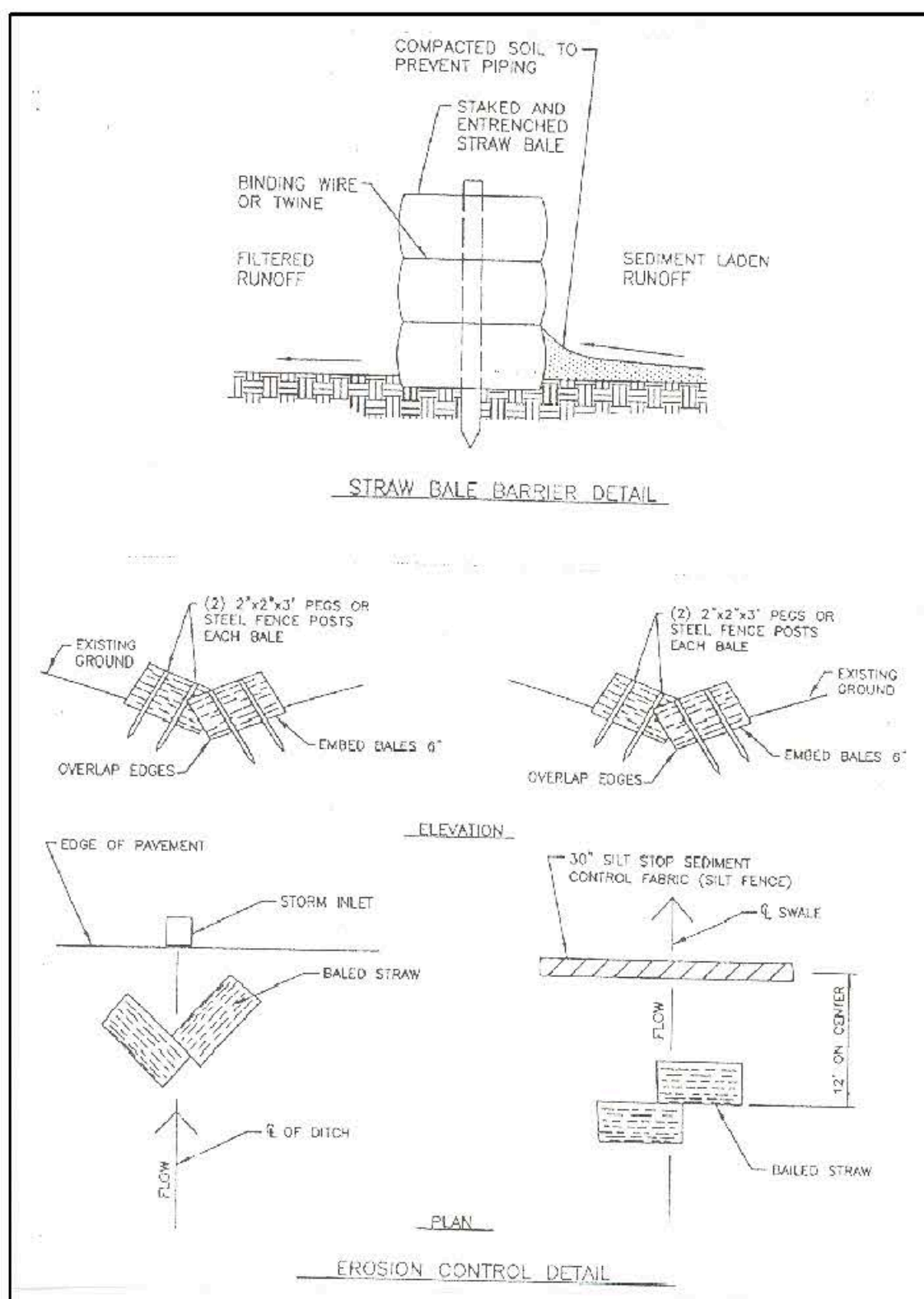
STRAW BALE INSTALLATION DETAIL



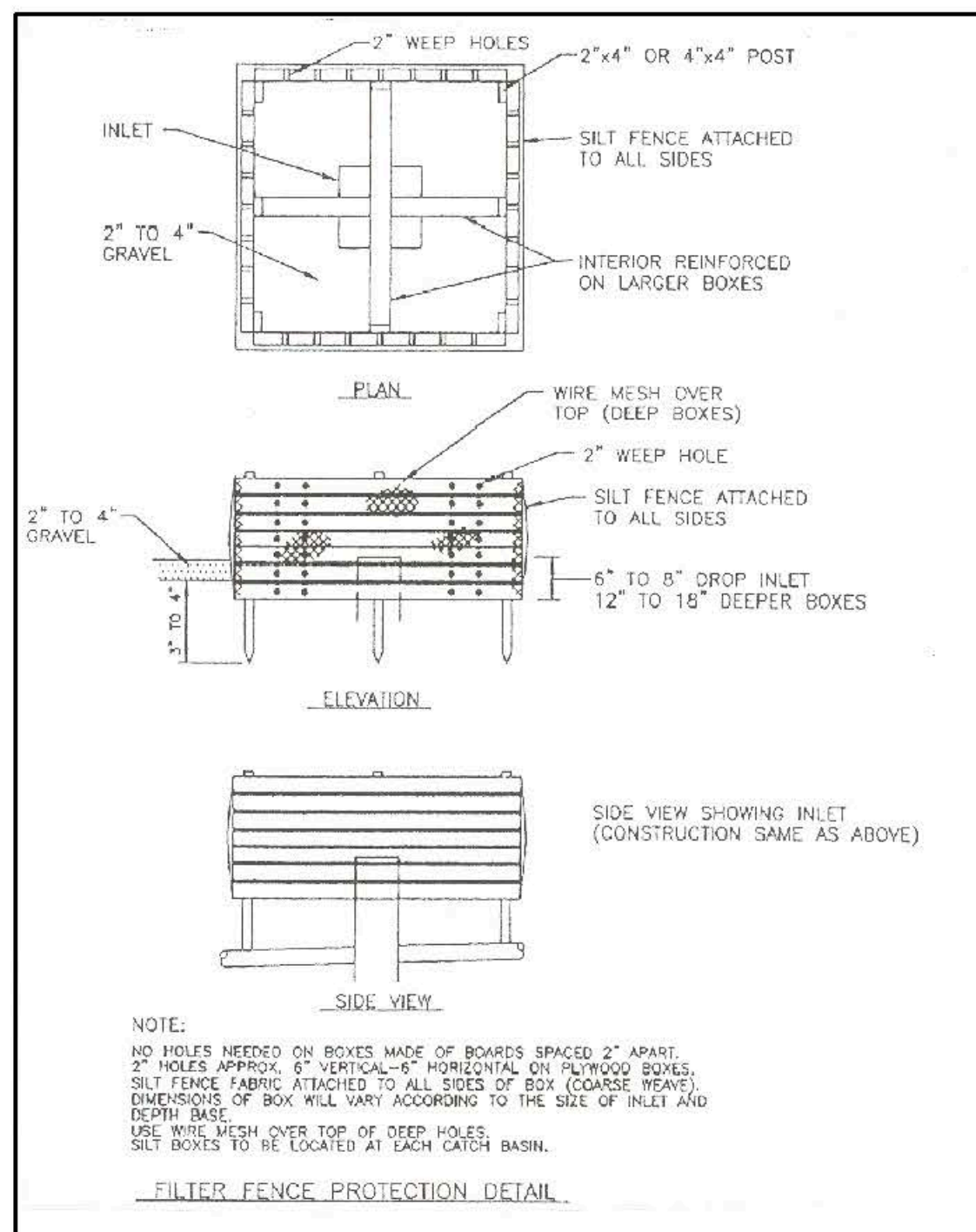
SANDBAG CURB INLET



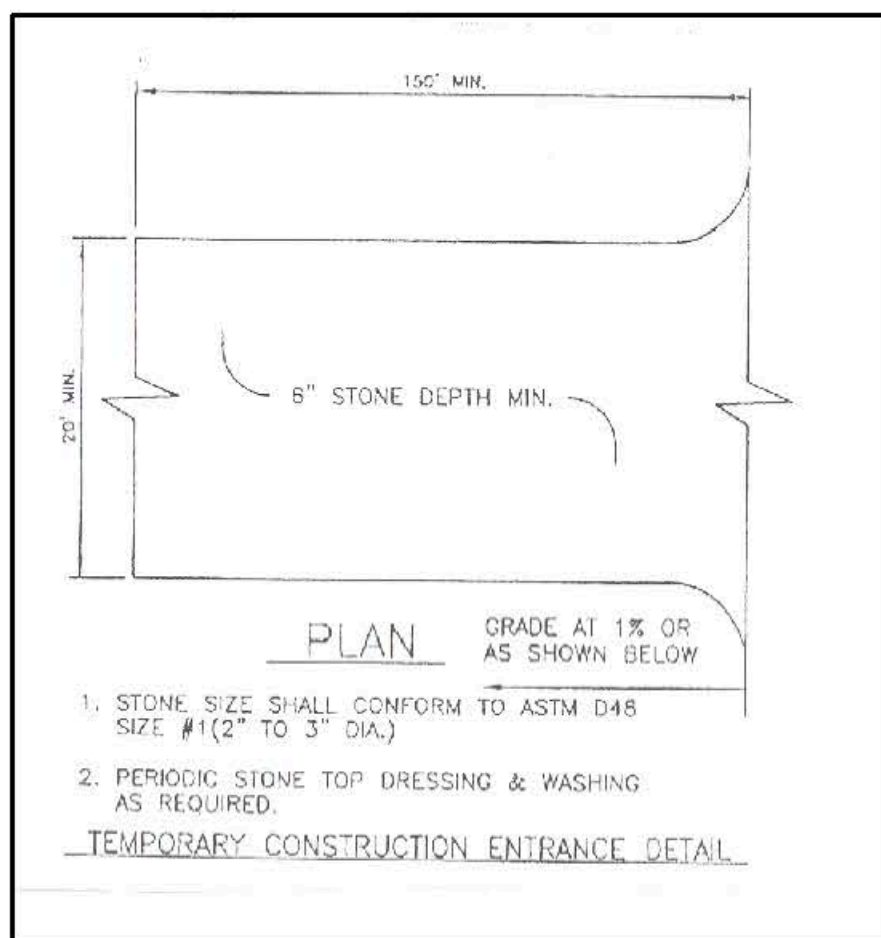
RIP RAP OUTFALL DETAILS



STRAW BALE BARRIER DETAIL

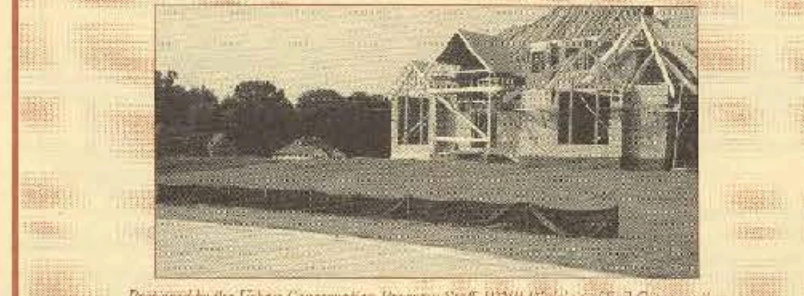


FILTER FENCE PROTECTION DETAIL



TEMPORARY CONSTRUCTION ENTRANCE DETAIL

Erosion Control for the Home Builder



TEMPORARY CONSTRUCTION ENTRANCE DETAIL

PRINCIPLES FOR CONTROLLING BUILDING SITE EROSION AND SEDIMENTATION

Erosion control is important on any building site. It is the responsibility of the builder to prevent erosion and sedimentation from occurring on the site. This can be done by following the principles of erosion control.

1. Evaluate the site. Before construction, evaluate the site for erosion potential. This includes the soil type, the slope, and the location of the building.

2. Install perimeter erosion control. This includes the installation of a silt fence or a straw bale barrier around the perimeter of the site.

3. Install temporary construction entrances. These are used to control erosion and sedimentation from the site during construction.

4. Install temporary construction exits. These are used to control erosion and sedimentation from the site during construction.

5. Install temporary construction storage areas. These are used to store materials and equipment on the site during construction.

6. Install temporary construction parking areas. These are used to park vehicles on the site during construction.

7. Install temporary construction staging areas. These are used to stage materials and equipment on the site during construction.

8. Install temporary construction access roads. These are used to provide access to the site during construction.

9. Install temporary construction utility lines. These are used to provide utility services to the site during construction.

10. Install temporary construction drainage systems. These are used to manage water on the site during construction.

11. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

12. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

13. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

14. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

15. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

16. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

17. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

18. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

19. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

20. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

21. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

22. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

23. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

24. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

25. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

26. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

27. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

28. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

29. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

30. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

31. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

32. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

33. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

34. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

35. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

36. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

37. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

38. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

39. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

40. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

41. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

42. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

43. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

44. Install temporary construction sedimentation control measures. These are used to prevent sedimentation from the site during construction.

45. Install temporary construction erosion control measures. These are used to prevent erosion and sedimentation from the site during construction.

Five Common Construction Site Erosion Control Practices

Exhibit #1 - CURB INLET PROTECTION

1. Install curb inlet protection at all curb inlets.
2. At a position downstream of the curb and up slope of the site, lay bags in a row across the inlet.
3. Overlap bags onto the curb and extend a minimum of 4 feet into the inlet.
4. For additional layers, overlap bags with the row beneath, and leave a one-foot gap in the middle of the top row to serve as a siphon.
5. Place bags in an arc around curb inlet that are in a sump position.
6. Set up safety flags to warn of the bags.
7. Inspect and repair as needed, and remove accumulated sediments after every storm.

Exhibit #2 - DRAINAGE PROTECTION

1. Construct a ditch along the down slope of the site to prevent hypsine flow.
2. Dig a trench 12 inches deep and 4 inches wide.
3. Secure support posts evenly around the ditch perimeter a minimum of 3 feet apart, and leave them about 1/4 inch from the ground.
4. Cut a trench 12 inches deep from a single roll of fabric.
5. Lay the fabric in the ditch, and then the fabric to the ground.
6. Very the bottom of the ditch at least 1 foot from the bottom and compact the fabric.
7. Cover the ditch with a layer of mulch.
8. Inspect and repair as needed, and remove accumulated sediments after every storm.

Exhibit #3 - SLOPE PROTECTION

1. Install mulch in the center of the lot.
2. Spread mulch evenly enough to allow water to pond behind the fabric.
3. Excavate a trench 4 inches wide and 8 inches deep.
4. Install fence with stakes on the down slope side.
5. Lay 12 inches of fabric in the trench, extending the bottom 4 inches toward the up slope side.
6. Backfill trench with soil material, not compact.
7. Join all fence sections by overlapping sections and nailing with left to the nearest post.
8. Inspect twice a week and after each storm event, replacing as needed and removing sediment deposits from the trench.

Exhibit #4 - GRAVEL ENTRANCE

1. Place 6 inches of coarse aggregate (1/2" to 1/4" to 1/2" over a 1/4" to 1/2" coarse aggregate) in the center of the lot.
2. Construct the ditch at least 12 inches wide and 20 feet long or the distance to the foundation.
3. Add stone as needed to maintain 6 inches of depth.
4. To prevent sediment from the curb, place a gravel curb at the curb.

Exhibit #5 - TEMPORARY DOWNSLOUT EXTENDERS

1. Install extenders as soon as storm and down slope are limited to prevent erosion from road runoff.
2. Use new perforated (sandstone) drainage pipe.
3. Route water to a stable ground or paved area or to the storm sewer.
4. Remove after vegetation is established.

SHORELINE APPLICATIONS

CRITICAL POINTS

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL, BY ANCHORING THE BLANKET IN A 6" DEEP TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. PLACE BLANKETS END OVER END WITH A 3" TO 4" OVERLAP. STAPLE THROUGH BOTH BLANKETS OF THE OVERLAP AREA, APPROXIMATELY 4" APART.
4. FULL LENGTH EDGE OF BLANKETS AT TOP OF SOE SLOPES MUST BE ANCHORED IN A 6" DEEP TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
5. IN MEDIAN/HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 2" APART OVER THE ENTIRE WIDTH OF THE CHANNEL, PLACE A SECOND ROW 4" BELOW THE FIRST FROM THE TERMINAL END OF THE BLANKETS.
6. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART.
7. REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

CRITICAL POINTS

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL, BY ANCHORING THE BLANKET IN A 6" DEEP TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. PLACE BLANKETS END OVER END WITH A 3" TO 4" OVERLAP. STAPLE THROUGH BOTH BLANKETS OF THE OVERLAP AREA, APPROXIMATELY 4" APART.
4. FULL LENGTH EDGE OF BLANKETS AT TOP OF SOE SLOPES MUST BE ANCHORED IN A 6" DEEP TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
5. IN MEDIAN/HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 2" APART OVER THE ENTIRE WIDTH OF THE CHANNEL, PLACE A SECOND ROW 4" BELOW THE FIRST FROM THE TERMINAL END OF THE BLANKETS.
6. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART.
7. REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

CRITICAL POINTS

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL, BY ANCHORING THE BLANKET IN A 6" DEEP TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. PLACE BLANKETS END OVER END WITH A 3" TO 4" OVERLAP. STAPLE THROUGH BOTH BLANKETS OF THE OVERLAP AREA, APPROXIMATELY 4" APART.
4. FULL LENGTH EDGE OF BLANKETS AT TOP OF SOE SLOPES MUST BE ANCHORED IN A 6" DEEP TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
5. IN MEDIAN/HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 2" APART OVER THE ENTIRE WIDTH OF THE CHANNEL, PLACE A SECOND ROW 4" BELOW THE FIRST FROM THE TERMINAL END OF THE BLANKETS.
6. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART.
7. REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

CRITICAL POINTS

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL, BY ANCHORING THE BLANKET IN A 6" DEEP TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. PLACE BLANKETS END OVER END WITH A 3" TO 4" OVERLAP. STAPLE THROUGH BOTH BLANKETS OF THE OVERLAP AREA, APPROXIMATELY 4" APART.
4. FULL LENGTH EDGE OF BLANKETS AT TOP OF SOE SLOPES MUST BE ANCHORED IN A 6" DEEP TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
5. IN MEDIAN/HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 2" APART OVER THE ENTIRE WIDTH OF THE CHANNEL, PLACE A SECOND ROW 4" BELOW THE FIRST FROM THE TERMINAL END OF THE BLANKETS.
6. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART.
7. REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

CRITICAL POINTS

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL, BY ANCHORING THE BLANKET IN A 6" DEEP TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. PLACE BLANKETS END OVER END WITH A 3" TO 4" OVERLAP. STAPLE THROUGH BOTH BLANKETS OF THE OVERLAP AREA, APPROXIMATELY 4" APART.
4. FULL LENGTH EDGE OF BLANKETS AT TOP OF SOE SLOPES MUST BE ANCHORED IN A 6" DEEP TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
5. IN MEDIAN/HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 2" APART OVER THE ENTIRE WIDTH OF THE CHANNEL, PLACE A SECOND ROW 4" BELOW THE FIRST FROM THE TERMINAL END OF THE BLANKETS.
6. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART.
7. REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

North

Scale: none

Pendleton Land Company, LLC
9449 Priority Way West Drive
Suite 120
Indianapolis, Indiana 46240
Phone: 765-770-4540 Fax: 765-770-5871
email: pendletonland@indnet.net

Pendleton Land Company, LLC
9449 Priority Way West Drive
Suite 120
Indianapolis, Indiana 46240
Phone: 765-770-4540 Fax: 765-770-5871
email: pendletonland@indnet.net

Date: 6/12/2006

Revision

Date

Drawn

Check

Scale

Sheet

19

20

Sheet

19

20

Sheet

19

20

Sheet

19

20

Sheet

19

20

Sheet

19

20

Sheet

19

20

Sheet

19

20

Sheet