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	SCD COMMENTS	SKM	SKM 03/29/2019
	SCD COMMENTS	SKM	SKM 12/28/2020
	SCD COMMENTS	SKM	SKM 04/20/2021
	SCD COMMENTS	SKM	SKM 08/31/2021
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MITE CREEK - INDIAN RIVER BAY WATERSHED,
WN OF MILLVILLE, BALTIMORE HUNDRED,
SSEX COUNTY, DELAWARE

(MAP #134-12.00-350.00 AND #134-12.00-351.00

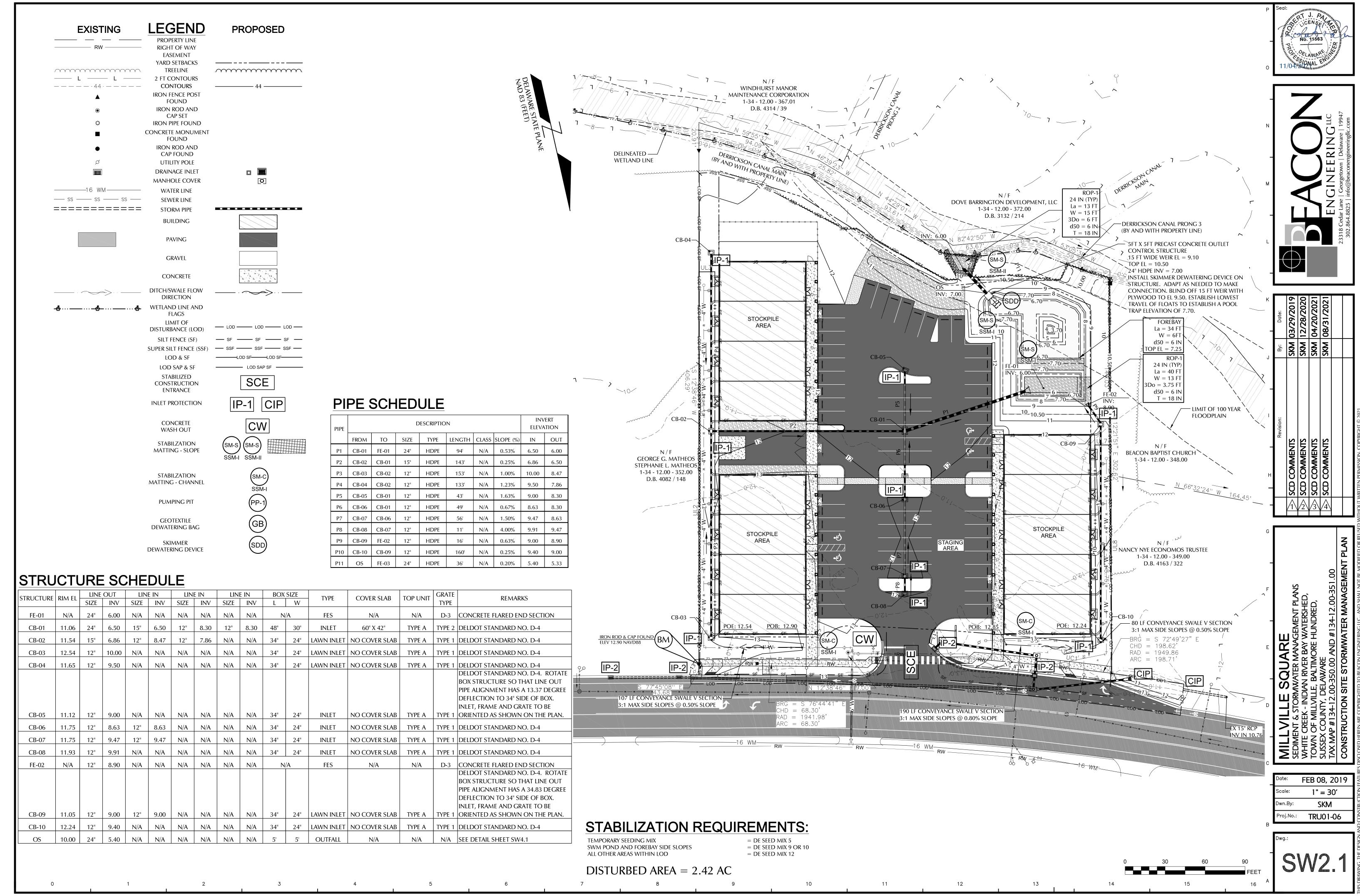
Date: FEB 08, 2019

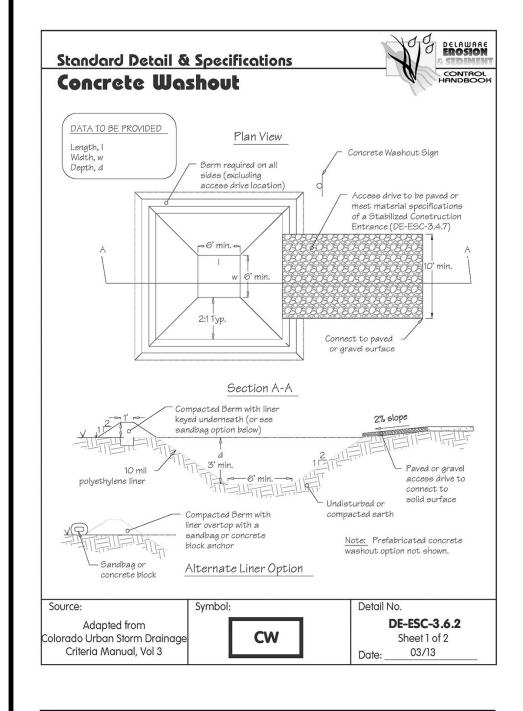
Scale: 1" = 30'

Dwn.By: SKM

Proj.No.: TRU01-06

SW1.1





Locate washout area a minimum of 50 feet from open channels, stormdrain inlets, wetlands or

Locate washout area so that it is accessible to concrete equipment (service with a minimum 10 foot

wide gravel accessway), but so it is not in a highly active construction area causing accidental

Minimum dimensions for prefabricated units are 4 feet by 4 feet by 1 foot deep with a minimum

The liner must be free of tears or holes and placed over smooth surfaces to prevent puncturing.

For excavated washouts, anchor the liner underneath the berm or overtop with sandbags or

Provide a sign designating the washout area, and for large construction sites, provide signs

Apply a new liner before reusing the station for additional washouts after maintenance has

Allow washed out concrete mixture to harden through evaporation of the wastewater. Once the

facility has reached 75 percent of its capacity, remove the hardened concrete by reusing the broken

aggregate onsite, recycling, or disposing of offsite. The hardened material can be buried on site

4mil polyethylene plastic liner. Minimum dimensions for constructed concrete washout areas are 6

feet by 6 feet by 3 feet deep, with a minimum 10mil polyethylene liner, 2:1 side slopes, and a 1 foot

Construction Notes:

high by 1 foot wide compacted fill berm.

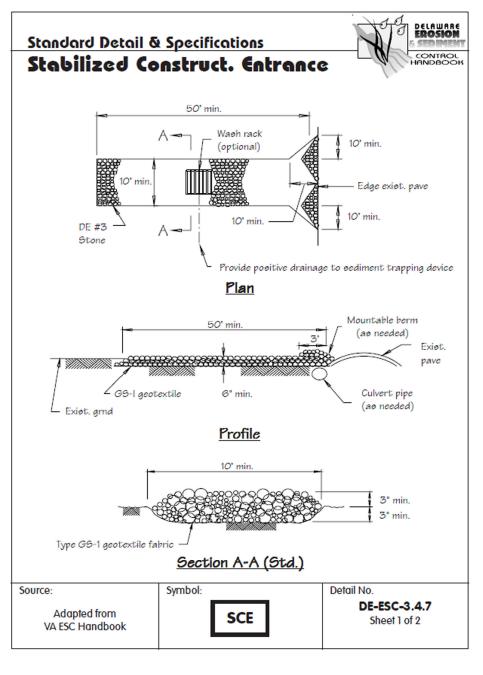
throughout directing traffic to its location.

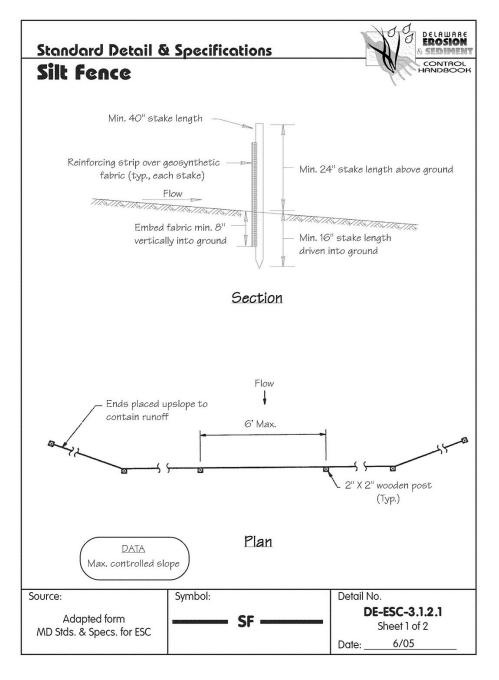
with minimum of 1 foot of clean, compacted fill.

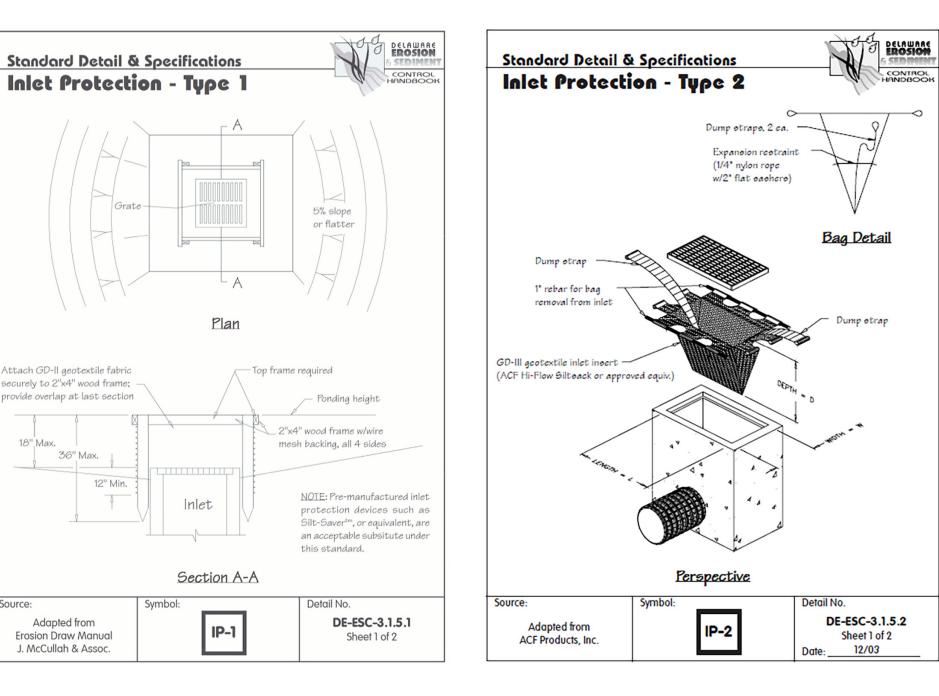
concrete blocks to hold in place.

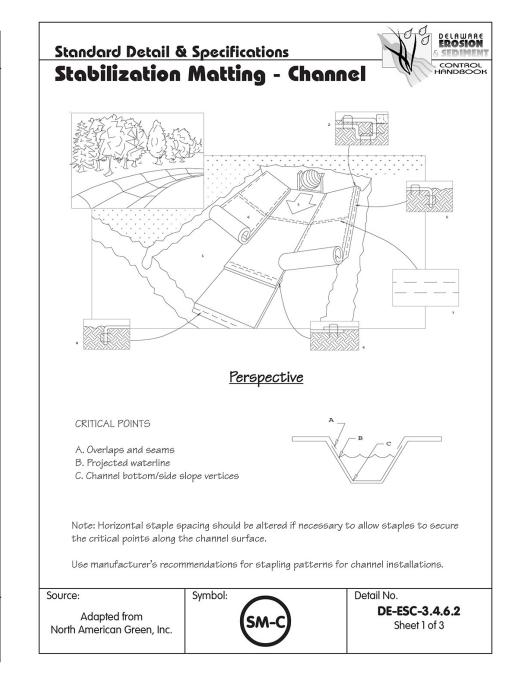
Standard Detail & Specifications

Concrete Washout









Standard Detail & Specifications

Stabilization Matting - Channel

. Prepare soil before installing matting, including application of lime, fertilizer, and seed.

Begin at the top of the channel by anchoring the mat in a 6" deep X 6" wide trench. Backfill

4. Place mats end over end (shingle style) with a 6" overlap, use a double row of staggered

. In high flow channel applications, a staple check slot is recommended at 30 to 40 foot

8. The terminal end of the mats must be anchored in a 6" X 6" wide trench. Backfill and

intervals. Use a row of staples 4" apart over entire width of the channel. Place a second

6. Mats on side slopes must be overlapped 4" over the center mat and stapled.

Construction Notes:

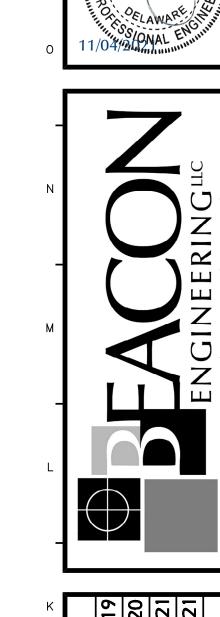
and compact the trench after stapling.

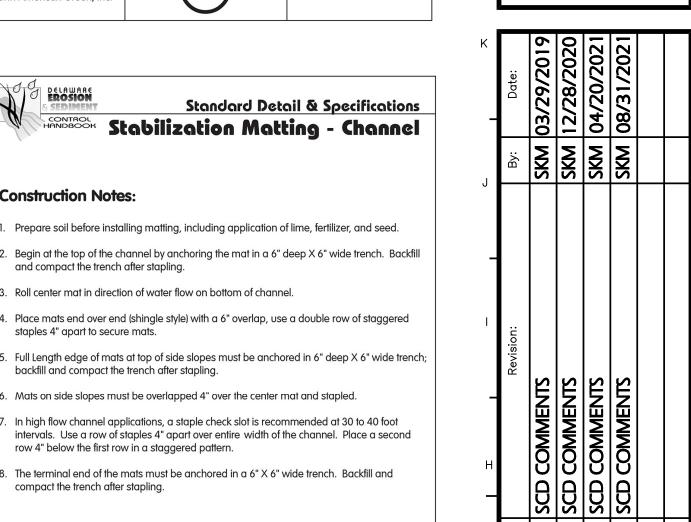
backfill and compact the trench after stapling.

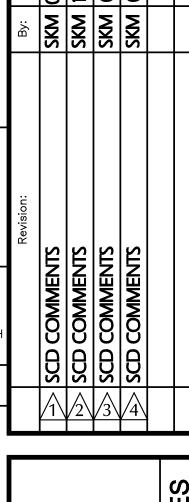
staples 4" apart to secure mats.

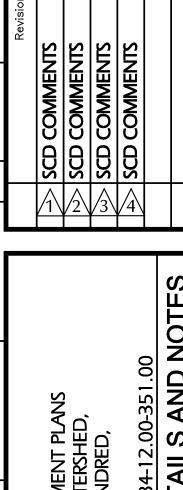
compact the trench after stapling.

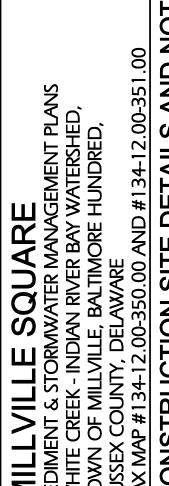
s. Roll center mat in direction of water flow on bottom of channel.

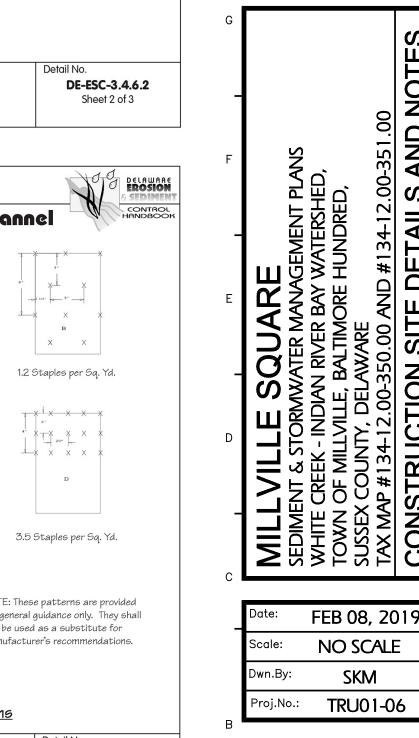


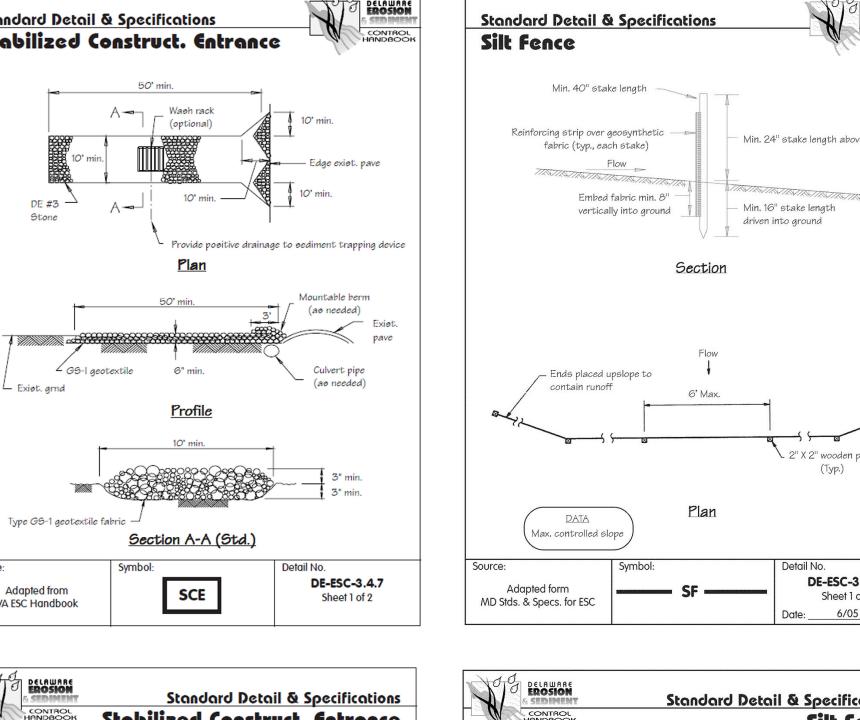


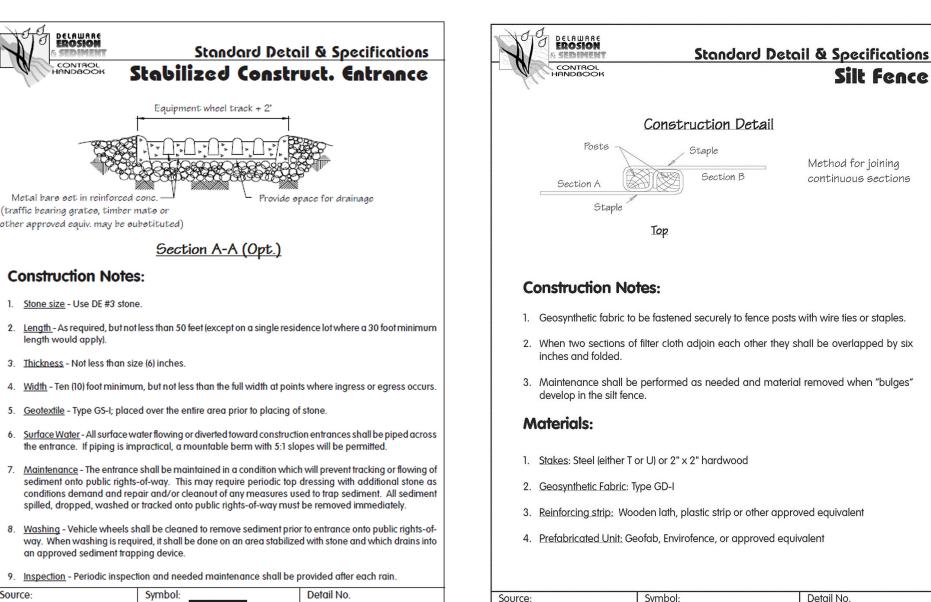






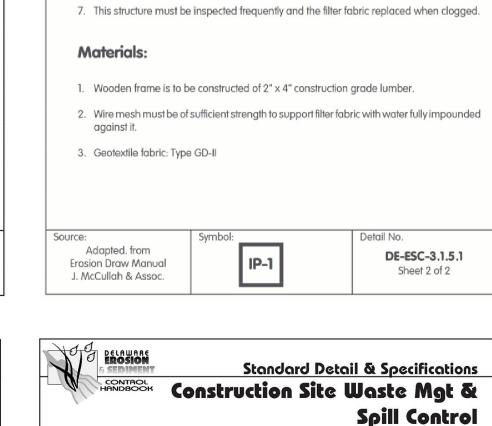






Adapted from

MD Stds. & Specs. for ESC



d. Trash shall be disposed of in accordance with all applicable Delaware laws.

and covered with plastic sheeting which is overlapped and anchored.

shall be placed near the construction trailer.

L. Equipment maintenance practices

e. Trash cans shall be placed at all lunch spots and littering is strictly prohibited. Recycle bins

f. If fertilizer bags can not be stored in a weather-proof location, they shall be kept on a pallet

a. If possible, equipment should be taken to off-site commercial facilities for washing and

b. If performed on-site, vehicles shall be washed with high-pressure water spray without

Excavate completely around inlet to a depth of 18" below grate elevation.

(weir) must be 6" below edge of roadway adjacent to inlet.

overlapped and folded, then fastened down.

2. Drive 2" x 4" post 1' into ground at four corners of inlet. Place nail strips between posts on

3. Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.

4. Stretch geotextile fabric tightly over wire mesh, the cloth must extend from top of frame to

5. Backfill around inlet in compacted 6" layers until at least 12" of geotextile fabric is buried.

6. If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it.

The top of this dike is to be at least 6" higher than the top of frame (weir).

18" below inlet grate elevation. Fasten securely to frame. Ends must meet at post, be

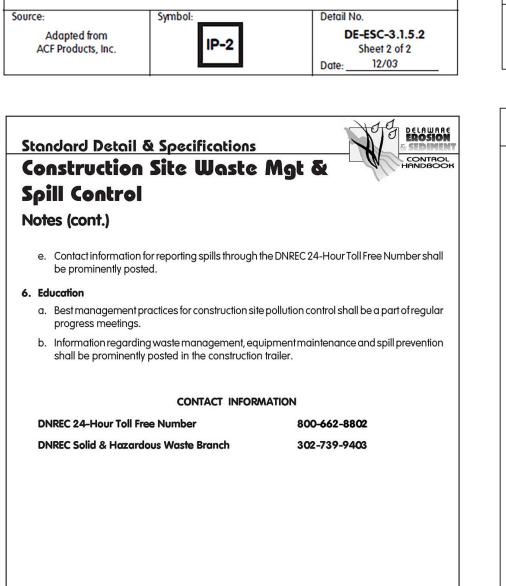
ends of inlet. Assemble top portion of 2" x 4" frame using overlap joint shown. Top of frame

Construction Notes:

Notes (cont.)

Standard Detail & Specifications

Inlet Protection - Type 1



DE-ESC-3.6.1

Sheet 5 of 5

Standard Detail & Specifications

Inlet Protection - Type 2

This practice shall only be used in situations in which Inlet Protection - Type 1 cannot be

used due to site constraints. These include, but are not limited to partially completed

2. It may be necessary to transition from Type 1 to Type 2 Inlet Protection as construction

3. For areas where there is a concern for oil run-off or spills, insert shall meet one of the

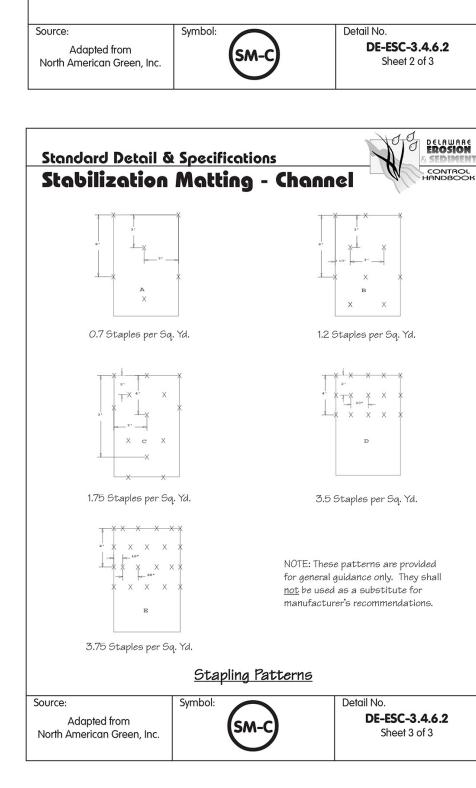
The geotextile inlet insert shall meet or exceed the specifications of Type GD-III geotextile in

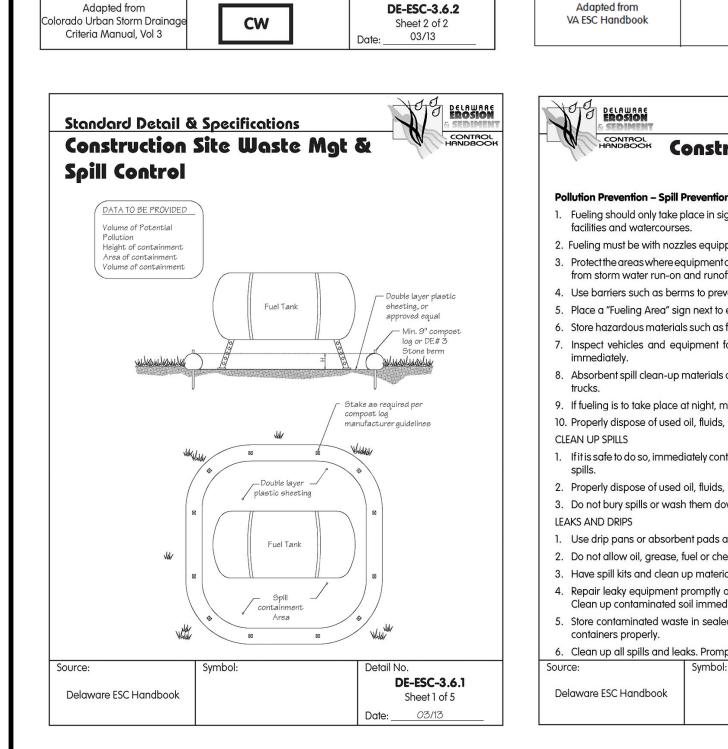
accordance with Appendix A-3 of the Delaware Erosion & Sediment Control Handbook

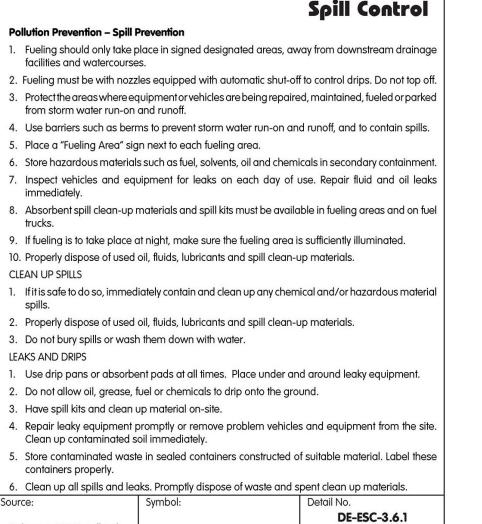
above specifications with an oil-absorbant pillow or shall be made completely from an oil-

parking areas, streets, roads, etc.

absorbant material with a woven pillow.







Sheet 2 of 5

03/13

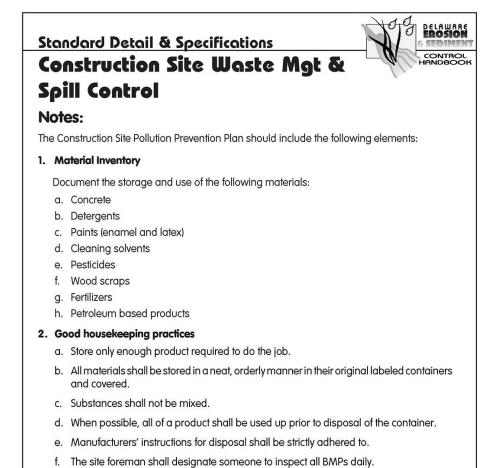
Standard Detail & Specifications

Construction Site Waste Mgt &

DE-ESC-3.4.7

Sheet 2 of 2

SCE



a. All waste materials shall be collected and stored in securely lidded dumpsters in a location

c. The dumpsters shall be emptied a minimum of twice per week, or more if necessary. The

b. Waste materials shall be salvaged and/or recycled whenever possible.

licensed trash hauler is responsible for cleaning out dumpsters.

that does not drain to a waterbody.

Adapted from USEPA

Pub. 840-B-92-002

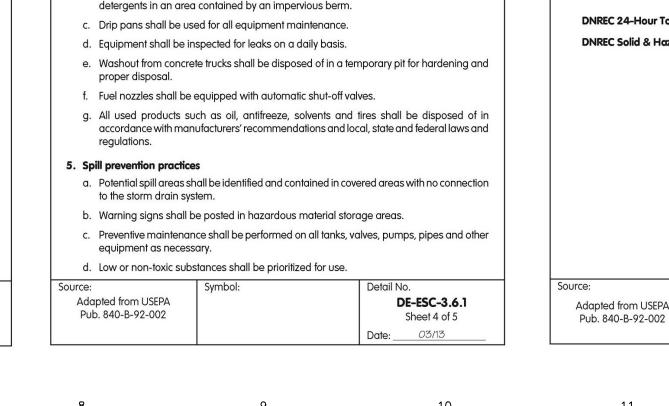
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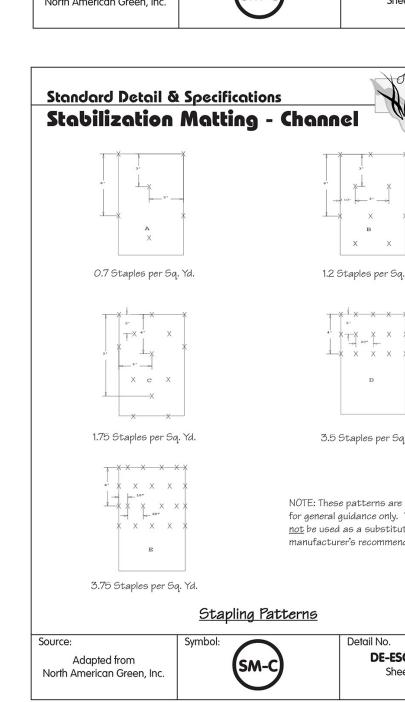
Sheet 2 of 2

DE-ESC-3.6.1

Sheet 3 of 5

03/13





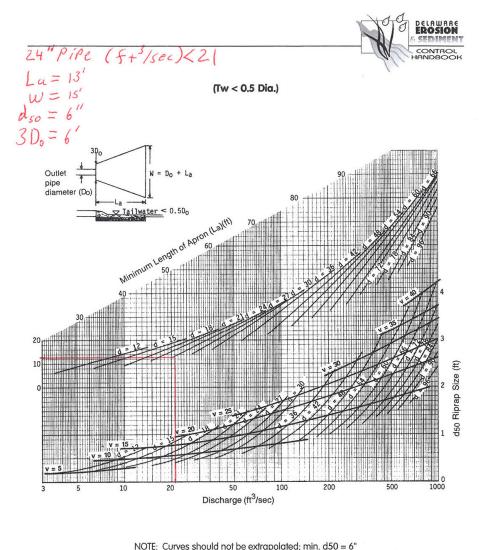
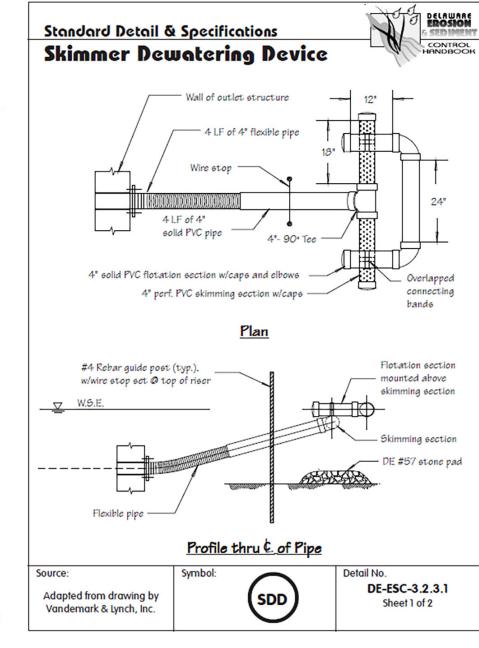


Figure 3.3.10a Design of outtlet protection from a round pipe flowing full, minimum tailwater condition Source: USDA-NRCS

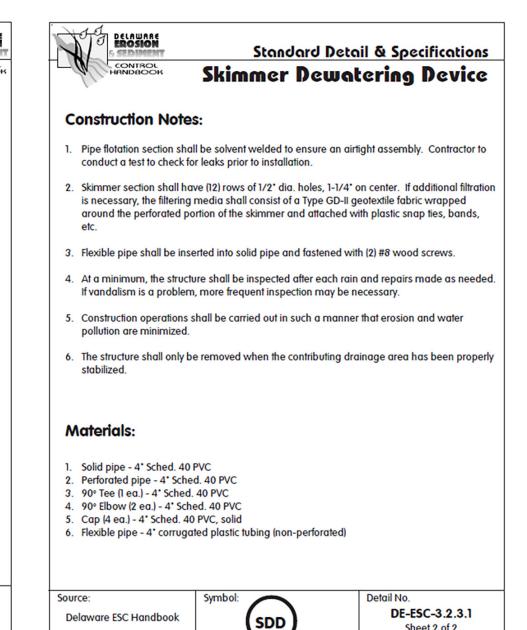
3.3.10 - 5

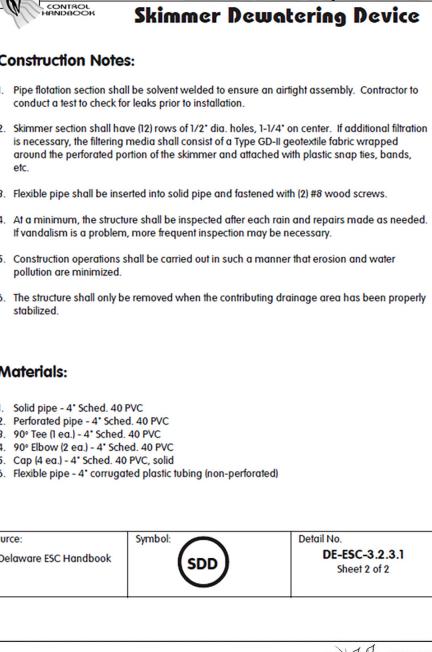


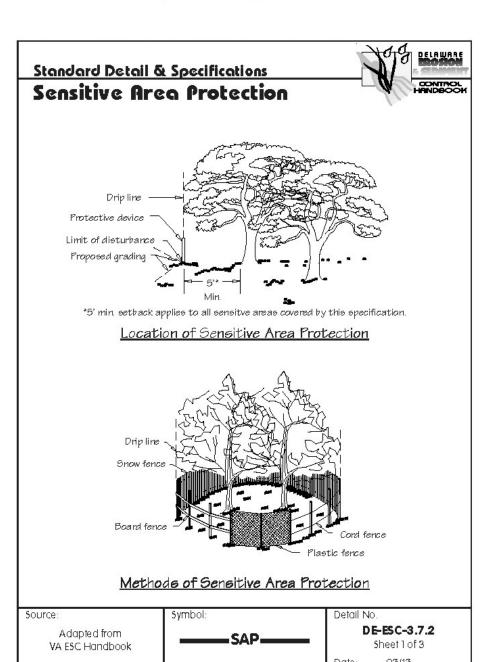
Standard Detail & Specifications

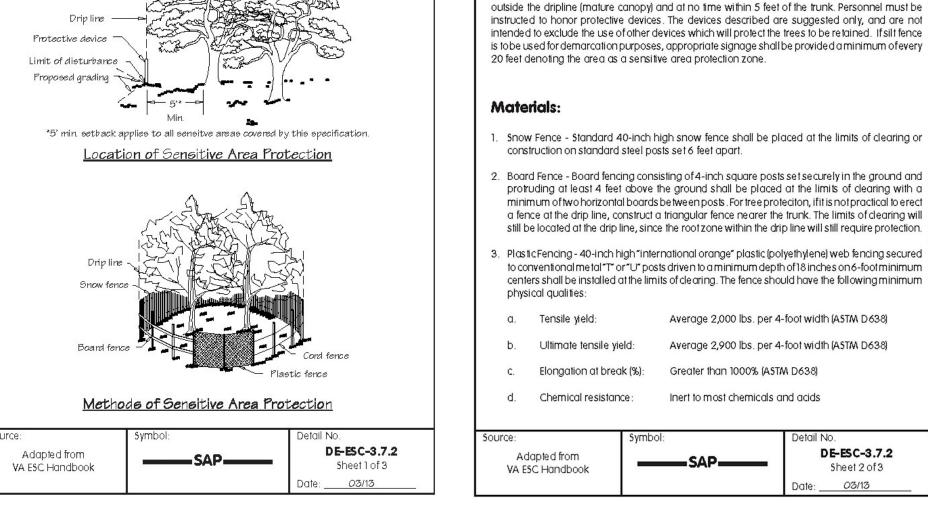
Sensitive Area Protection

Fencing shall be installed at the extents of all sensitive areas. For trees, the fencing shall be installed

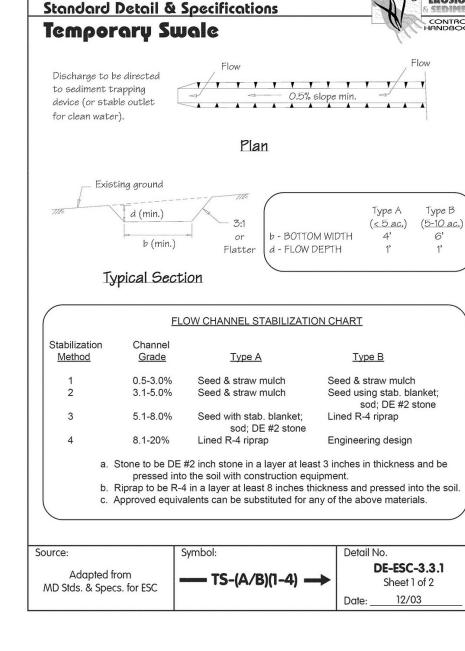


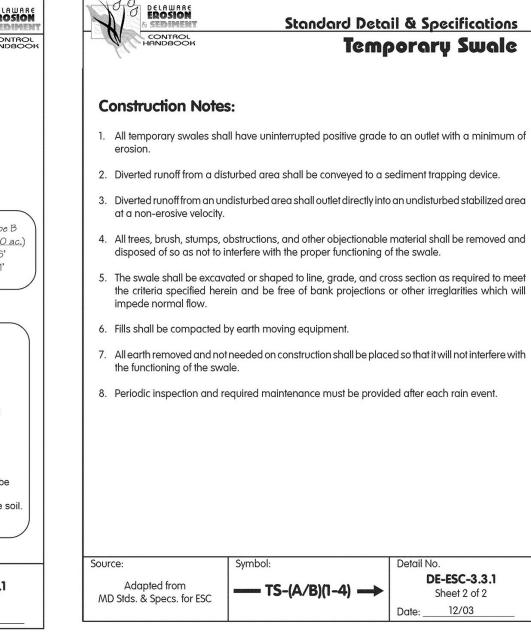


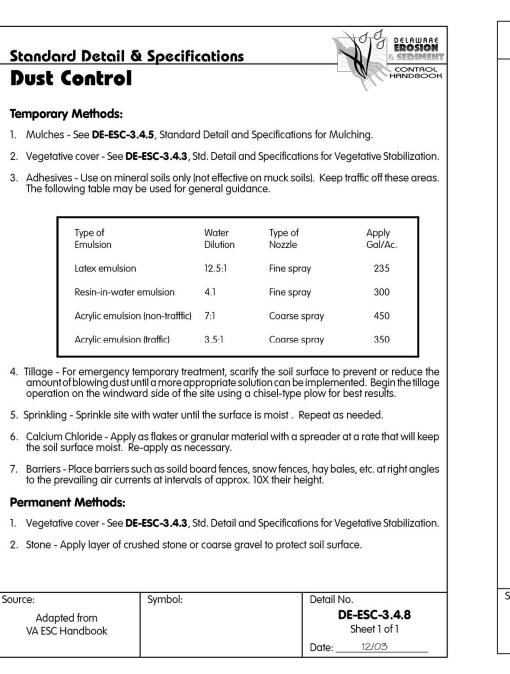


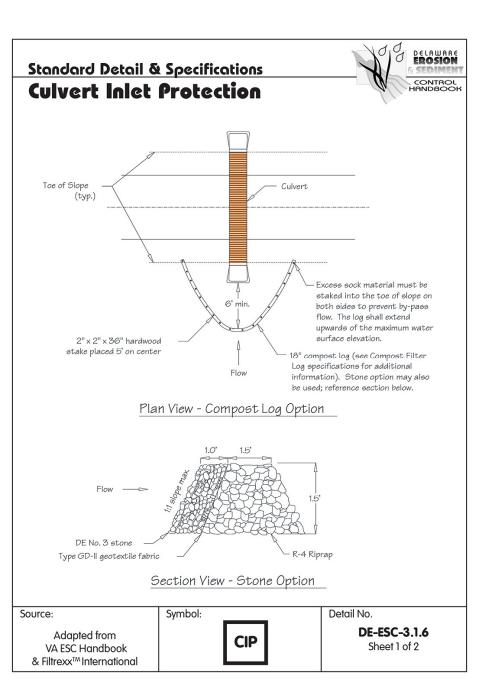


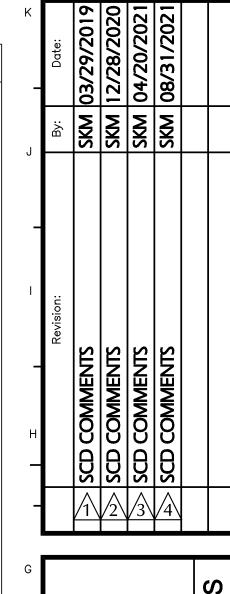
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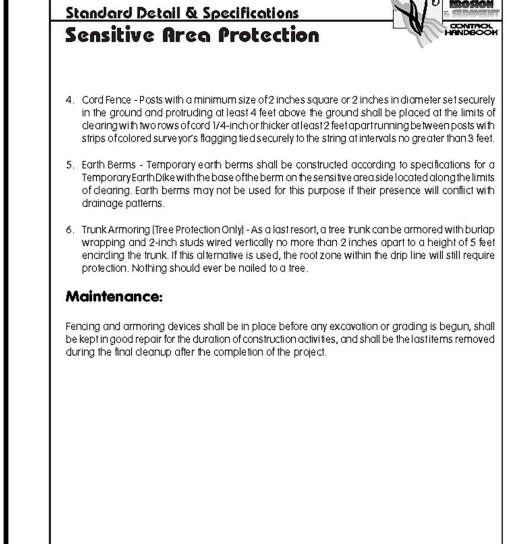






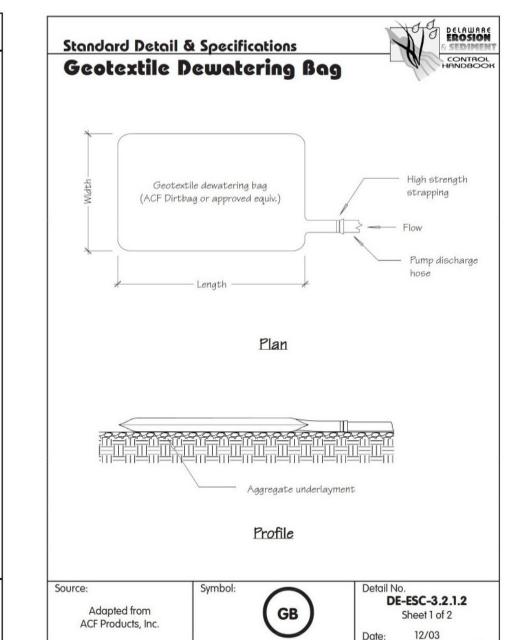


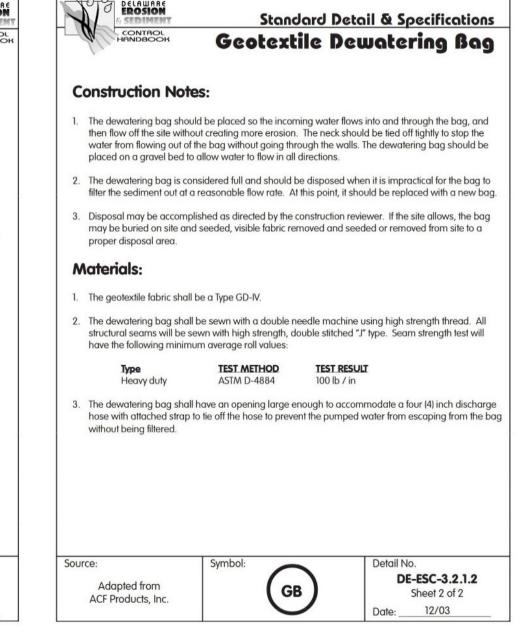


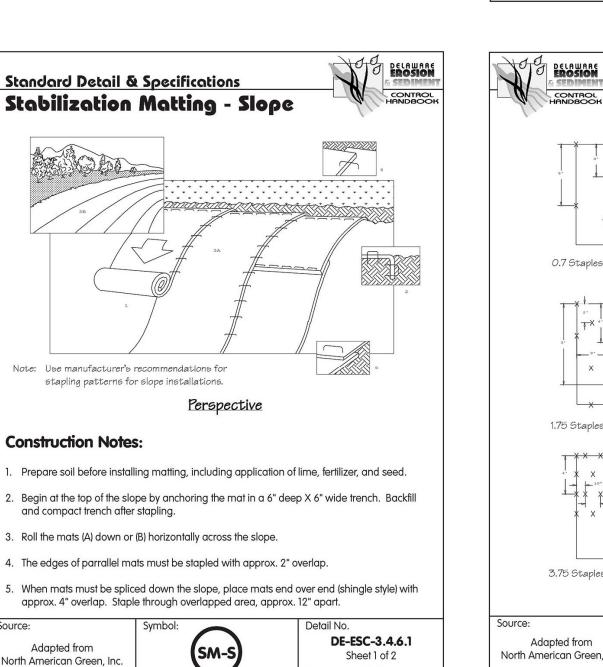


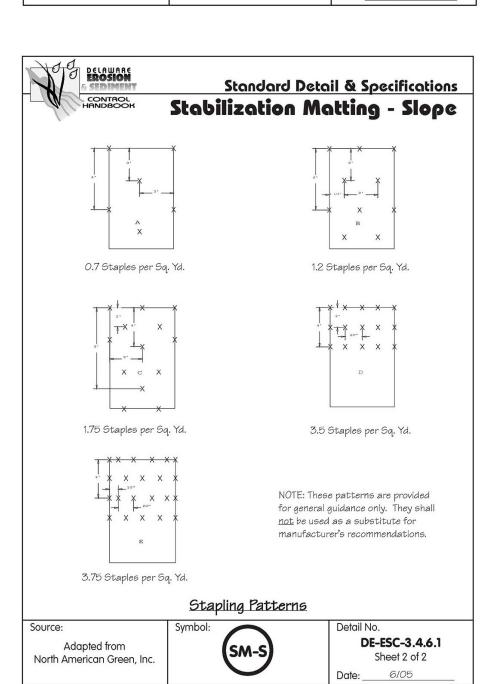
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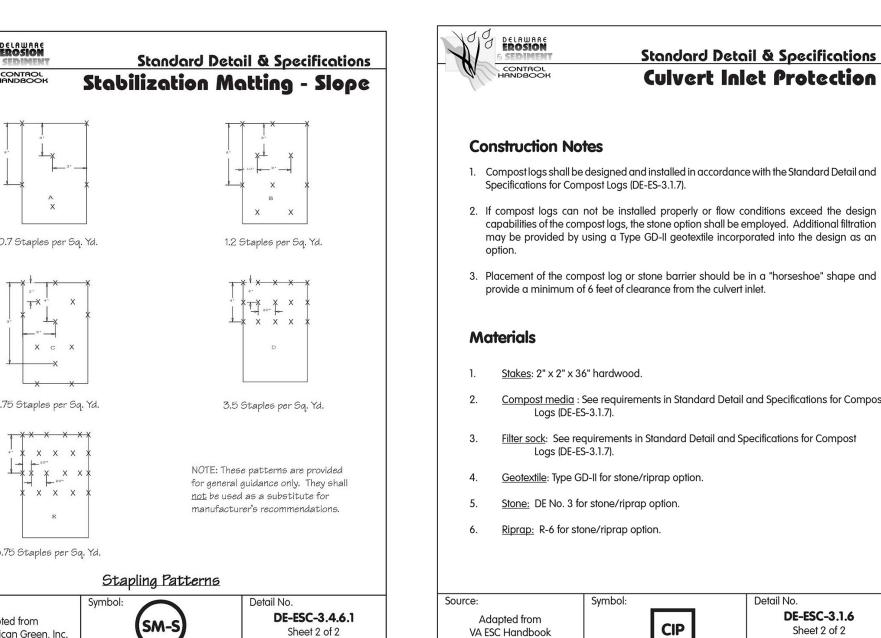
VA ESC Handbook

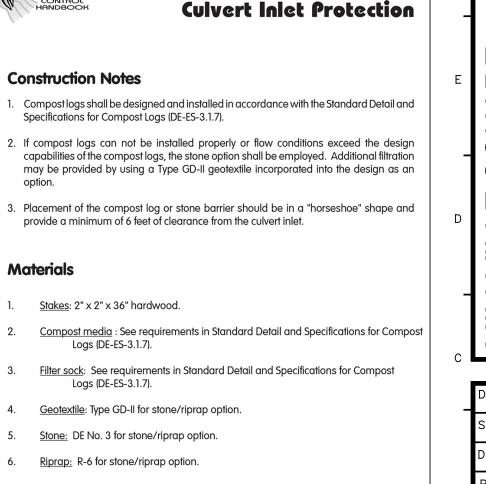












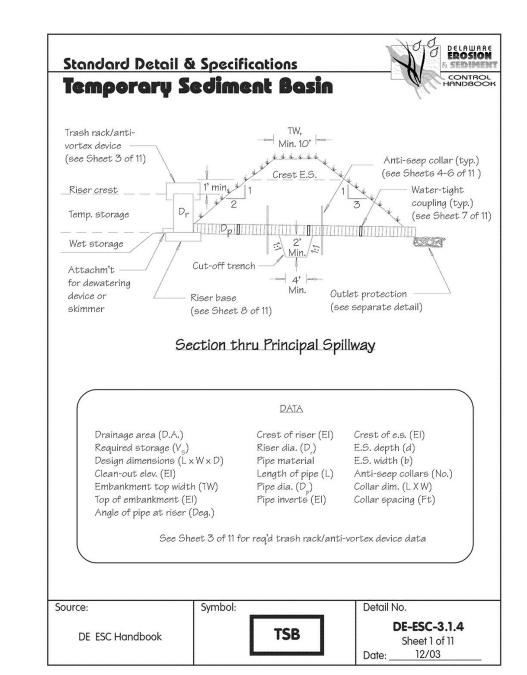
DE-ESC-3.1.6

Sheet 2 of 2

FEB 08, 2019 NO SCALE SKM TRU01-06 roj.No.:

DE-ESC-3.7.2

Sheet 3 of 3



Standard Detail & Specifications

Adapted from

MD Stds. & Specs. for ESC

Temporary Sediment Basin

Detail - Water-Tight Connectors

END VIEW

PIPE DIAMETER 15" TO 48"

PIPE DIAMETER 54" TO 72"

DE-ESC-3.1.4

Sheet 7 of 11

"RUBBER BAND"

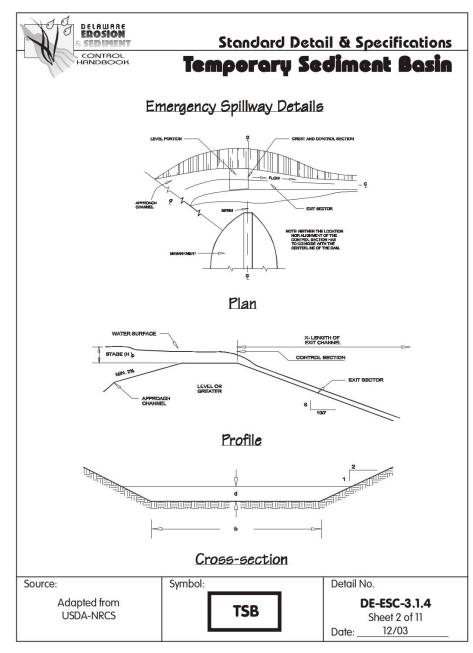
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CORRUGATIONS

SIDE VIEW

SIDE VIEW

TSB



Standard Detail & Specifications

Temporary Sediment Basin

RISER BASE DETAIL

BASE WIDTH EQUALS 2X DIAMETER OF RISER

1. The concrete base shall be poured in such a manner to insure

2. With aluminum or aluminized pipe, the embedded section must

of safety of 1.2.

Adapted from

MD Stds. & Specs. for ESC

that the concrete fills the bottom of riser to the invert of the

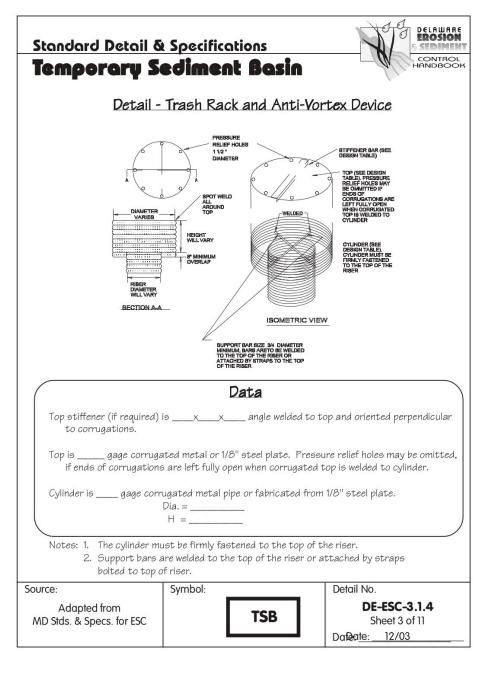
outlet pipe to prevent the riser from breaking away from the

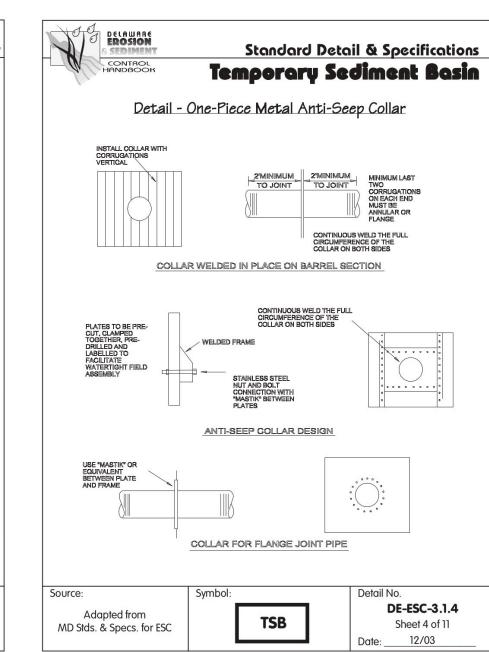
3. Riser base may be sized as computed using floatation with a factor

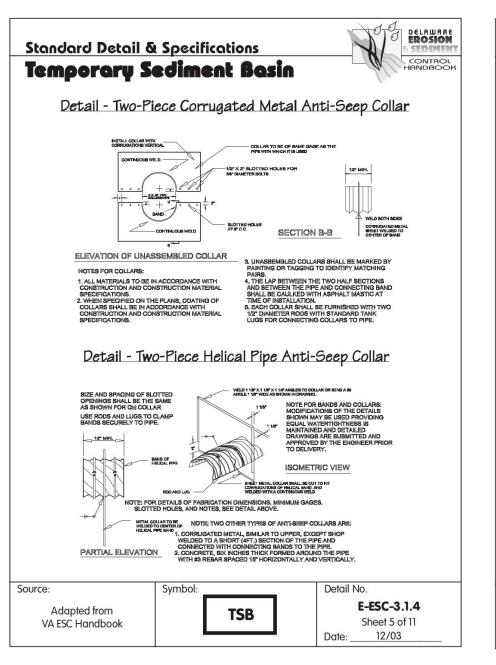
DE-ESC-3.1.4

Sheet 8of 11

12/03







Standard Detail & Specifications

remain unstabilized for more than seven (7) days.

Construction Notes (cont.)

of soft sediment and floodwater.

each working day.

floodplain.

DE ESC Handbook

. Final Disposal

Temporary Sediment Basin

The emergency spillway shall be installed in undisturbed ground. The achievement of planned

elevations, grades, design width, entrance and exit channel slopes are critical to the successful

Stabilize the embankment and emergency spillway in accordance with the appropriate Vegetative

Standard and Specifications immediately following construction. In no case shall the embankment

State and local requirements shall be met concerning fencing and signs, warning the public of hazards

a. Repair all damages caused by soil erosion and construction equipment at or before the end of

An approved dewatering device shall be considered an integral part of the basin. Dewatering

operations shall be conducted in accordance with any and all regulatory requirements.

Sediment shall be removed from the basin when it reaches the specified distance below the top

When temporary structures have served their intended purpose and the contributing drainage area

has been properly stabilized, the embankment and resulting sediment deposits are to be leveled or

otherwise disposed of in accordance with the approved sediment control plan. The proposed use of

a sediment basin site will often dictate final disposition of the basin and any sediment contained

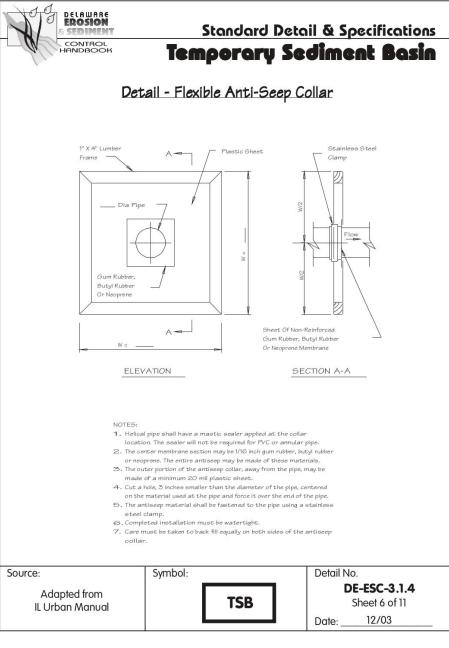
therein. If the site is scheduled for future construction, then the basin material and trapped sediments

must be removed, safely disposed of, and backfilled with a structural fill. When the basin area is to

remain open space the pond may be pumped dry, graded and backfilled.

of the riser. This sediment shall be placed in such a manner that it will not erode from the site. The sediment shall not be deposited downstream from the embankment, or adjacent to a stream or

operation of the emergency spillway and must be constructed within a tolerance of + 0.2 feet.



Suction line to pump

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pipe. The perforations shall be 1/2" X 6" slits or 1" diameter holes 6" on center.

fabric. This will increase the rate of water seepage into the pipe.

NOTE: If discharge will be pumped directly to a storm drainage system, the standpipe must

ware cloth may be placed around the standpipe, prior to attaching the geotextile

be wrapped with Type GD-II geotextile fabric before installation. If desired, 1/2" hard-

PP-1

Section

Side slope (varies)

DE-ESC-3.2.2.1

Sheet 1 of 1

Standard Detail & Specifications

Clean water discharge

Pumping Pit - Type 1

Top of standpipe to —

extend min. 12"-18"

above water level

Place 12" of DE #57 —

otand pipe

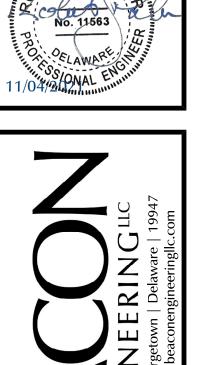
stone before installing

Adapted from

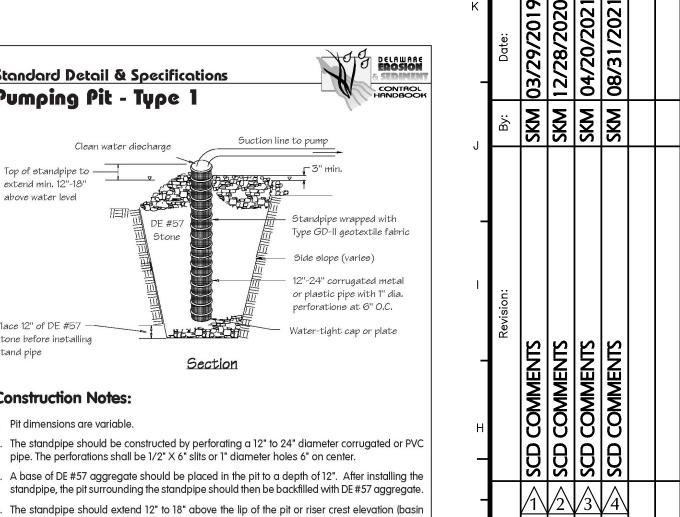
MD Stds. & Specs. for ESC

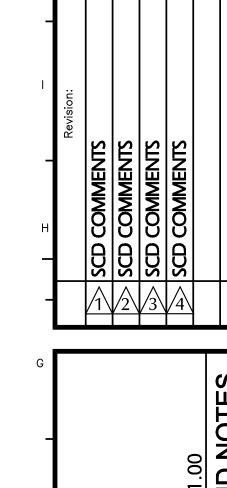
Construction Notes:

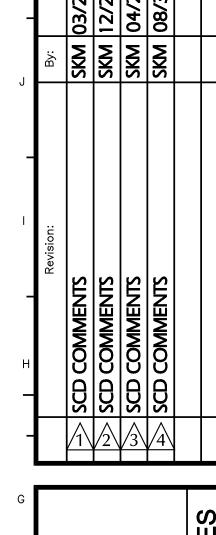
Pit dimensions are variable.





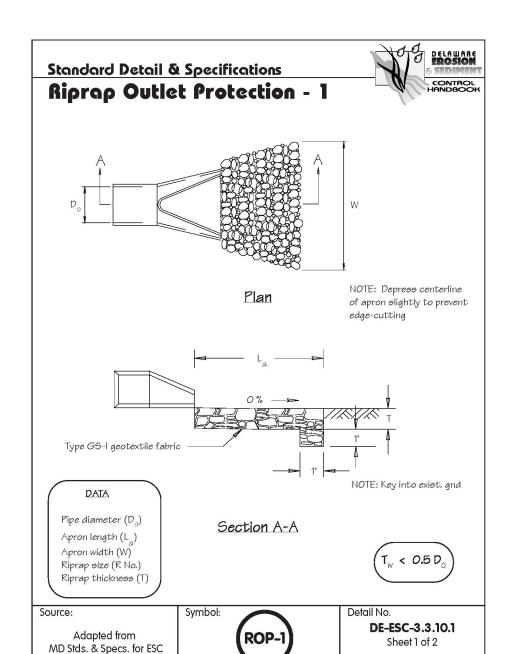


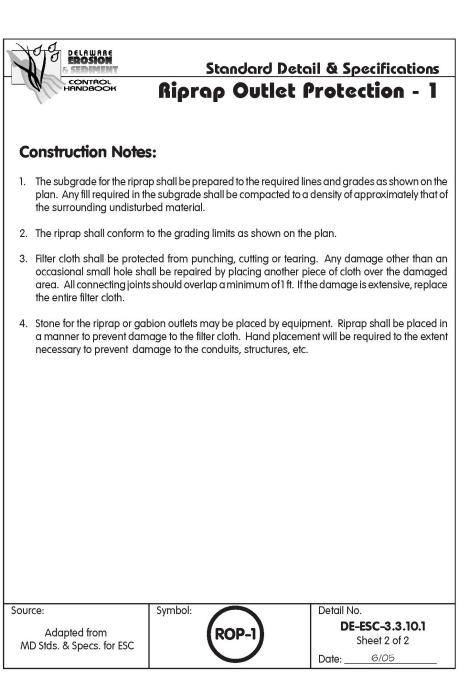


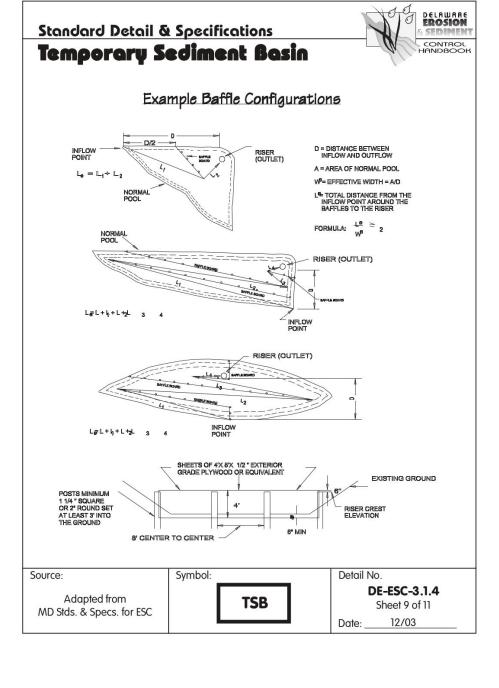




SKM







TEMPORARY SEEDING BY RATES, DEPTHS AND DATES

Standard Detail & Specifications

Vegetative Stabilization

1. Winter seeding requires 3 tons per acre of straw mulch for proper stabilization.

3. Applicable on slopes 3:1 or less.

Delaware ESC Handbook

2. May be planted throughout summer if soil moisture is adequate or seeded area can be irrigated

4. Fifty pounds per acre of Annual Lespedeza may be added to 1/2 the seeding rate of any of the above species.

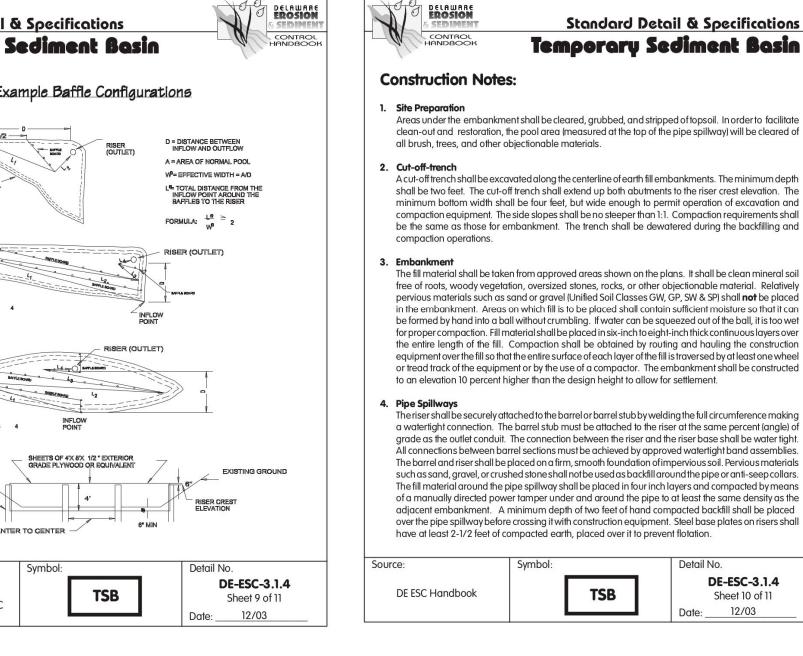
6. Warm season grasses such as Millet or Weeping Lovegrass may be used between 5/1 and 9/1 if desired. Seed at 3-5 lbs.

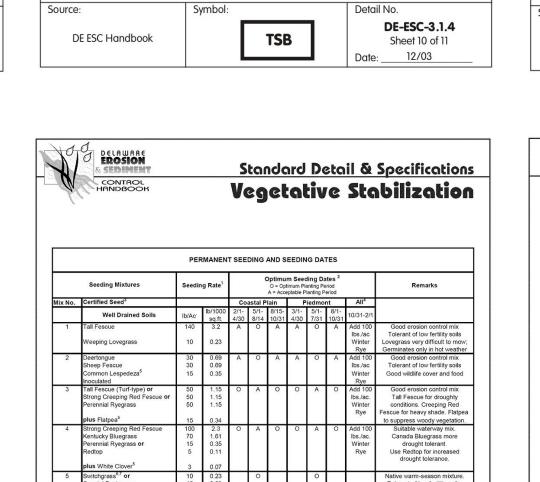
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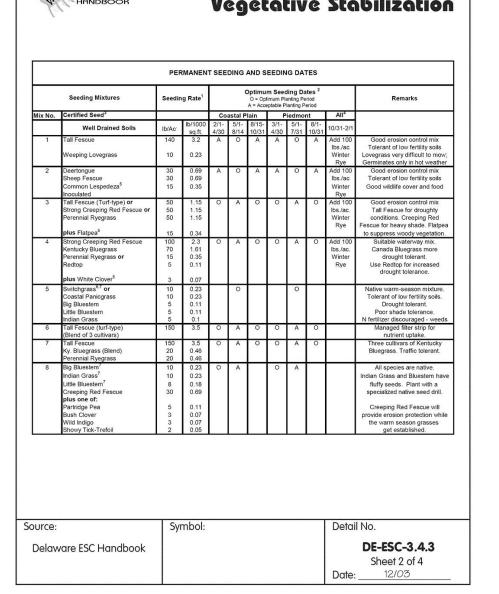
Sheet 1 of 4

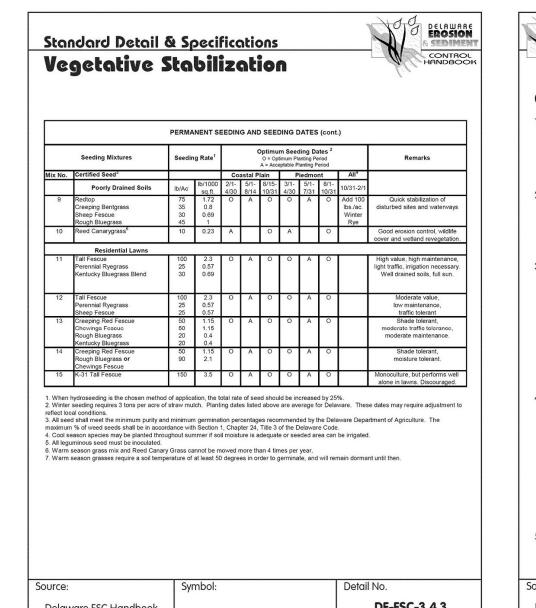
5. Use varieties currently recommended for Delaware. Contact a County Extension Office for information.

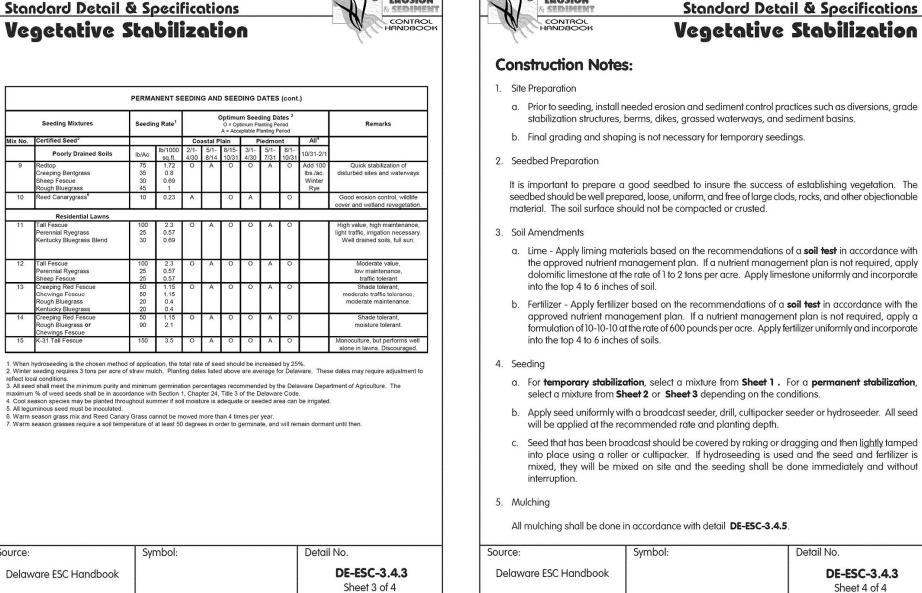
per acre. Good on low fertility and acid areas. Seed after frost through summer at a depth of 0.5".











DE-ESC-3.1.4

Sheet 11 of 11

