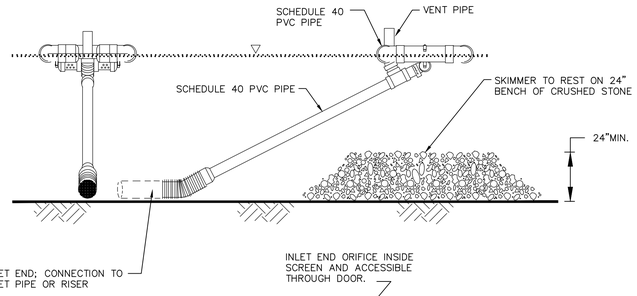
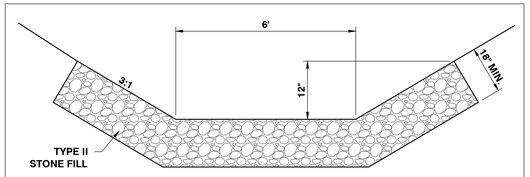


SKIMMER
DESIGN BY: W. FAIRCLOTH
PATENT # 5,820,751

NOTE:
The most important design parameter is the control of orifice size, which can control desired dewatering time. The longer the dewatering time, the better the quality of water discharged from the sediment basin.

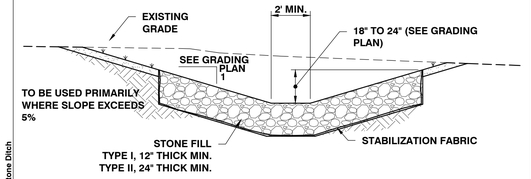
"SKIMMER" SEDIMENT POND OUTLET

N.T.S.



EMERGENCY SPILLWAY

N.T.S.

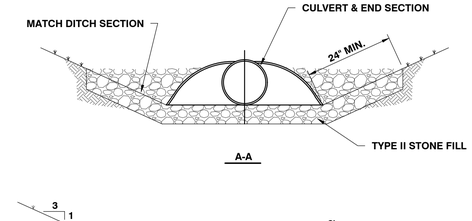


STONE LINED DITCH

N.T.S.

ST-012 Spillway/Stone Ditch

ST-012 REVISED 08/01/2014

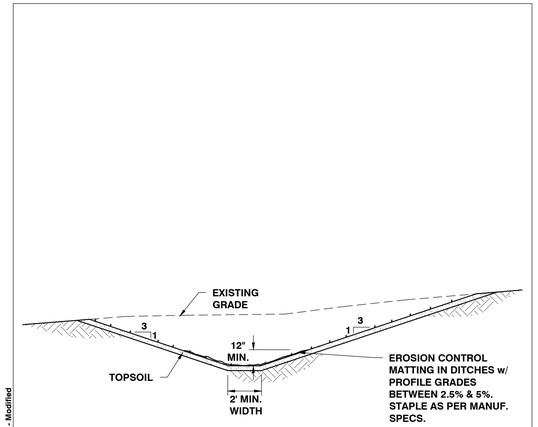


END SECTION DETAIL

N.T.S.

ST-011 End Section

ST-011 REVISED 08/01/2014

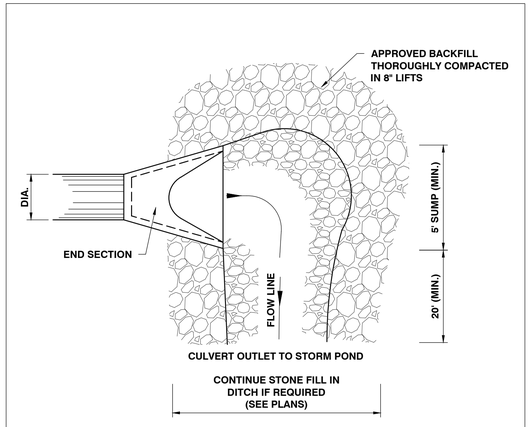


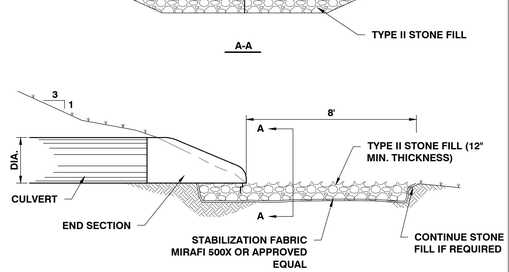
GRASS LINED DITCH

N.T.S.

ST-014 Grass Ditch - Modified

ST-014 REVISED 10/07/2015





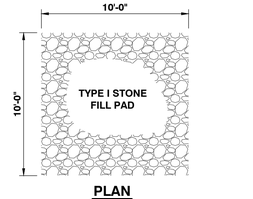
END SECTION DETAIL w/ STONE FILL @ INLET

N.T.S.

NOTE: ALL DRAINAGE PIPES TO HAVE AN END SECTION & STONE FILL @ THE INLET

ST-015 End Section-Stone Spillway

ST-015 REVISED 08/01/2014



STONE FILL PAD

N.T.S.

ST-013 Stone Pad

ST-013 REVISED 08/01/2014

2017 Vermont Stormwater Management Manual Rule and Design Guidance

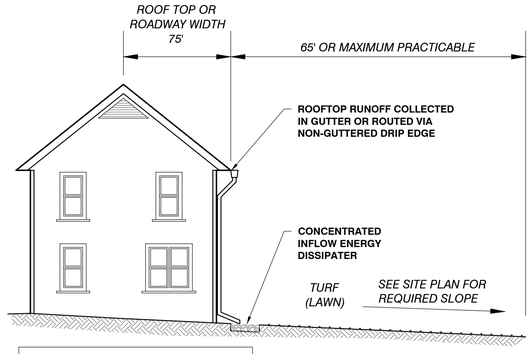
Stormwater Treatment Standards

Simple Disconnection

Required Elements:

- The contributing surface impervious area to any one discharge location must not exceed 1,000 square feet. The contributing rooftop area to an individual downspout shall not exceed 1,000 square feet.
- The maximum contributing impervious flow path length to any one discharge location shall be 75 feet.
- Runoff must enter the disconnection area as sheet flow for the applicable design storms and shall not be allowed to channelize.
- Runoff must be conveyed as sheet flow onto and across open areas to maintain proper disconnection. Disconnections shall be located on gradual slopes and directed away from buildings to both maintain sheet flow and prevent water damage to basements and foundations.
- The width of the disconnection area shall be at least 12 feet for disconnected rooftops that discharge via downspouts, or equal to the contributing width for all other surfaces.
- Where provided, downspouts must be at least 10 feet away from the nearest impervious surface to prevent reconnection to the stormwater drainage system.
- A stone diaphragm, level spreader, splash pad, or other accepted flow spreading device shall be installed at each downspout outlet to distribute flows evenly across the flow path.
- Where a gutter and downspout system is not used, runoff shall drain as either sheet flow from the contributing surface or drain to a subsurface drain field that is not directly connected to the drainage network.
- Flow from each downspout shall be spread over a minimum 12-ft. wide disconnection flow path extending down-gradient from the structure.
- A permeable, vegetated treatment area with a minimum length of 65 ft. and as wide as the disconnected surface shall be available down gradient (downslope) of the impervious cover. If the minimum length cannot be provided then achieve the maximum practicable.
- The soils underlying the receiving disconnection area must, at minimum, meet the criteria included in the Post-Construction Soil Depth and Quality standard which is defined as the following:

  'A topsoil layer with a minimum organic matter content of 4% dry weight in planting beds and turf areas. The topsoil layer shall have a minimum depth of 4 inches, except where tree roots limit the depth of incorporation of amendments needed to meet the criteria or where native mapped soils indicate less than 4 inches of naturally occurring topsoil on an NRCS Official Soil Series Description. In those cases in which native mapped soils indicate less than 4 inches of naturally occurring topsoil, restored top soil depth shall match that indicated on the NRCS Official Soil Series Description.'



Vegetated Disconnection Areas shall be planted & maintained at such a density to achieve a minimum 90% grass/herbacious cover after the second growing season.

SIMPLE DISCONNECTION AREA DETAIL

N.T.S.

ST-029a Simple Disconnection Area Detail

ST-029a REVISED 9/24/2018

SITE ENGINEER:

CIVIL ENGINEERING ASSOCIATES, INC.
10 MANSFIELD VIEW LANE, SOUTH BURLINGTON, VT 05403
802-864-2323 FAX: 802-864-2271 web: www.cea-vt.com

DRAWN: SAL
CHECKED: DSM
APPROVED: DSM

OWNER:
HAYSTACK CROSSING, LLC
c/o JOSEPH BISSONETTE
68 RANDALL STREET
SOUTH BURLINGTON, VT 05403

APPLICANT:
BLACKROCK CONSTRUCTION, LLC
68 RANDALL STREET
SOUTH BURLINGTON, VT 05403

PROJECT:
HAYSTACK CROSSING
SHELBURNE FALLS ROAD
VERMONT ROUTE 116
HINESBURG, VERMONT 05461

DATE	CHECKED	REVISION
11/22/19	DSM	TOWN RESUBMITTAL
1/10/20	DSM	UPDATE PER TOWN COMMENTS
3/4/22	DSM	REV. PER CONDITIONS OF APPROVAL

STORM DETAILS

DATE: OCT. 4, 2019
SCALE: AS SHOWN
PROJ. NO.: 13127

DRAWING NUMBER: C9.3

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