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CONSTRUCTION NOTES

GENERAL NOTES

1. ALL ITEMS SHALL BE CONSTRUCTED TO THE DIMENSIONS AND ELEVATIONS SHOWN ON THE DRAWINGS. ANY CHANGES SHALL BE APPROVED BY THE NRCS REPRESENTATIVE ON SITE.
2. ALL PERMITS, EASEMENTS, AND RIGHTS OF WAY ARE THE RESPONSIBILITY OF THE LANDOWNER.
3. IT IS THE EXCAVATION CONTRACTORS RESPONSIBILITY TO CALL "DIG SAFE" AND TO COMPLY WITH ALL VERMONT LAWS AND REGULATIONS REGARDING THE LOCATION AND WORK AROUND UNDERGROUND UTILITIES. DIG SAFE (888) 344–7233.
4. ALL CONSTRUCTION ACTIVITIES SHALL BE DONE IN A MANNER THAT MINIMIZES SEDIMENT FROM ENTERING ANY WATER BODIES, INCLUDING DRAINAGE WAYS, SEE VT D.E.C. SEDIMENT AND EROSION CONTROL HANDBOOKS.
5. CONSTRUCTION MAY NOT BEGIN UNTIL THE CONTRACTOR, LANDOWNER, AND NRCS HAVE A PRE–CONSTRUCTION MEETING IN ORDER TO DISCUSS THE DETAILS OF THE PROJECT.
6. IT SHALL BE THE CONTRACTOR'S AND LANDOWNER'S RESPONSIBILITY TO NOTIFY NRCS AT LEAST TWO DAYS IN ADVANCE OF:
   A. START OF CONSTRUCTION.

EARTHWORK NOTES:

7. STRIP ALL TOPSOIL AND ORGANIC MATTER PRIOR TO GRADING ACCESS. STOCKPILE FOR LATER USE.
8. INSTALL SURFACE DRAINAGE IF DETERMINED BY NRCS THAT IT IS NEEDED.
9. INSTALL GEOTEXTILE FABRIC BETWEEN GRAVEL BASE AND EXISTING GROUND AS DESCRIBED IN VT CONSTRUCTION SPECIFICATION #54.
10. GRAVEL SHALL BE <5% FINES (PASSING #200 SIEVE) WITH A MAXIMUM SIZE OF 3" NOT TO EXCEED 10% BY VOLUME. ACCEPTABLE GRAVEL SOURCE/MIX: _____
    OTHER GRAVEL SOURCES/MIXES MAY BE APPROVED BY NRCS PRIOR TO CONSTRUCTION.
11. COMPACT GRAVEL WITH A VIBRATORY DRUM ROLLER WITH AT LEAST TWO PASSES PER LIFT, MAKING SURE THAT THE ENTIRE SURFACE IS TRAVERSED BY THE DRUM. LIFTS SHALL NOT EXCEED 9" THICK.
12. A TOP COAT OF ¾" PLANT MIX SHALL BE INSTALLED ON TOP OF THE GRAVEL BASE.

TRAIL/WALKWAY NOTES:

13. THE CONSTRUCTED TRAIL/WALKWAY SHALL BE OF TOTAL LENGTH = ___**0.0**___ FT
14. GRADES SHOULD NOT EXCEED 10% EXCEPT FOR SHORT LENGTHS OF UP TO 50'.
15. THE TRAIL/WALKWAY SURFACE SHALL BE CROWNED FROM THE CENTER TO THE EDGE OF THE GRAVEL.
16. SURFACE CROSS DRAINS SHALL BE SPACED EVERY __**0.0**__ FT AS SHOWN ON THE SURFACE CROSS DRAIN DETAILS SHEET.

FINISH WORK NOTES:

17. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SEEDED AND MULCHED ACCORDING TO CONSTRUCTION SPECIFICATION #52.

LOCATION MAP
SCALE: _____

BILL OF MATERIALS

ITEM #	ITEM	QUANTITY	UNIT	CONSTRUCTION SPECIFICATIONS
1.	SITE PREPARATION	FOR	JOB	1, 5
2.	EXCAVATION		C.Y.	11
3.	BACKFILL MATERIAL		C.Y.	11
4.	GEOTEXTILE		S.Y.	54
5.	GRAVEL		C.Y.	11
6.	¾" PLANT MIX		C.Y.	11
7.	SURFACE CROSS DRAINS (SEE DETAILS)		E.A.	11
8.	SEEDING & MULCHING		ACRE	52

811 DigSafe MA·ME·NH·RI·VT

Designed
Drawn VT STANDARD DRAWING
Checked
Approved by
Date 1/1/2021

United States Department of Agriculture
Natural Resources Conservation Service
USDA

HAZARD CLASS LOW
JOB CLASS

TRAILS AND WALKWAYS
CONSTRUCTION NOTES & BILL OF MATERIALS
VERMONT

File Name

Drawing Name
VT–575–001–2021

Sheet 1 of 5

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PLAN VIEW

PROFILE:

VERTICAL SCALE

HORIZONTAL SCALE

0.0 0.0 0.0 0.0 0.0

0.0 0.0 0.0 0.0 0.0

0 0 0 0 0 0 0 0 0 0 0 0 0 0

Date

Designed

Drawn VT STANDARD DRAWING 1/1/2021

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Natural Resources Conservation Service

HAZARD CLASS LOW

JOB CLASS

TRAILS AND WALKWAYS
PLAN – PROFILE

VERMONT

File Name

Drawing Name
VT–575–001–2021

Sheet 2 of 5

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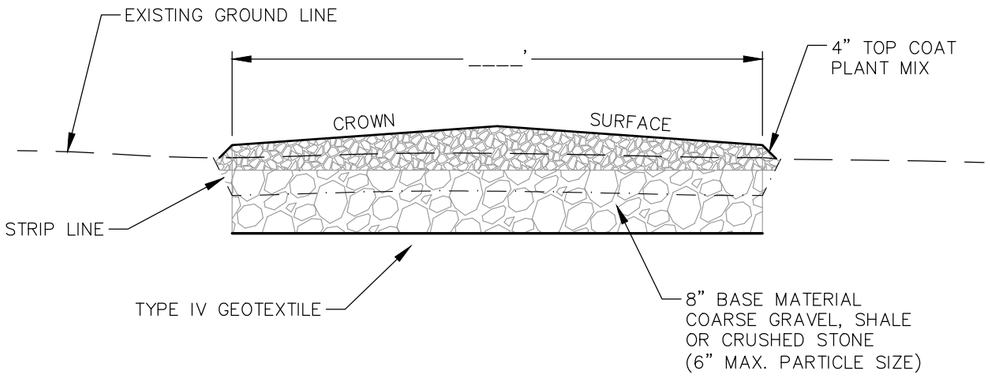
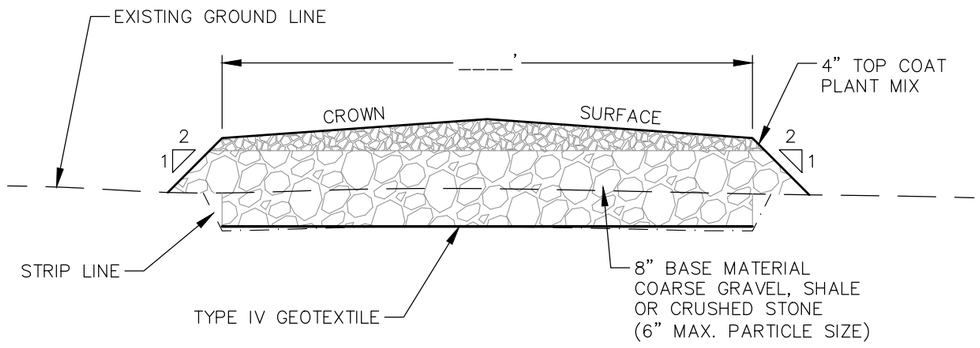
LENGTH OF WALKWAY: _____'



TYPICAL DUG-IN SECTION
(NOT TO SCALE)

TYPE IV GEOTEXTILE PROPERTIES

PROPERTY	WOVEN	NONWOVEN
TENSILE STRENGTH	150 LBS MIN	120 LBS MIN
BURSTING STRENGTH	250 PSI	210 PSI MIN
ELONGATION (GRAB TEST)	35% MAX	100 % MAX
PUNCTURE	60 LBS	50 LBS
UV	75%	70%
APPARENT OPENING SIZE (AOS)	#100 SIEVE MIN	#40 SIEVE MAX
PERCENT OPEN AREA	4.0% MIN	–
PERMITIVITY	–	0.30 L/SEC MIN



TYPICAL BUILT-UP SECTION
(NOT TO SCALE)

BASE GRAVEL GRADATION

SIZE	PERCENT PASSING
3"	95 TO 100
1½"	70 TO 90
NO. 4 (0.187")	25 TO 50
NO. 100 (0.0058")	0 TO 12
NO. 200 (0.0029)	0 TO 6

Date 1/1/2021
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Natural Resources Conservation Service

HAZARD CLASS LOW

JOB CLASS

TRAILS AND WALKWAYS
DETAILS & BILL OF MATERIALS
VERMONT

File Name

Drawing Name
VT-575-001-2021

Sheet 3 of 5

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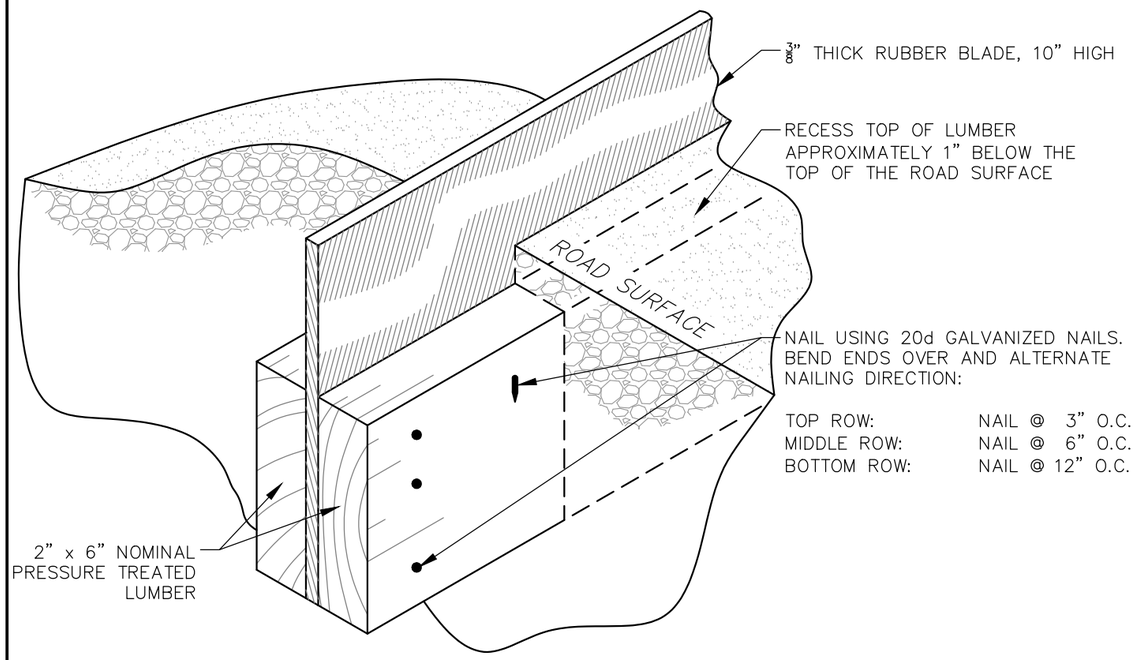
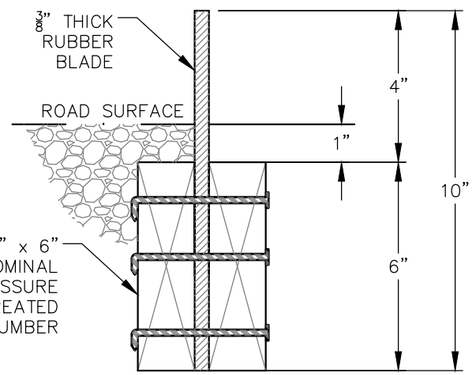
TYPICAL RUBBER WATERBAR

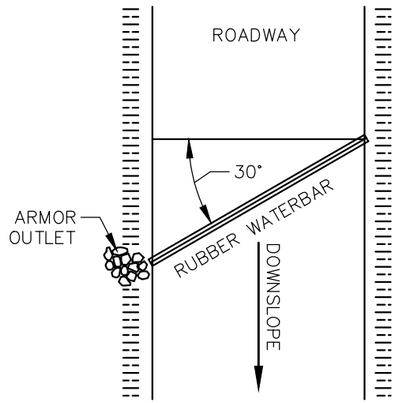
(NOT TO SCALE)



ISOMETRIC DETAILS



TYPICAL SECTION



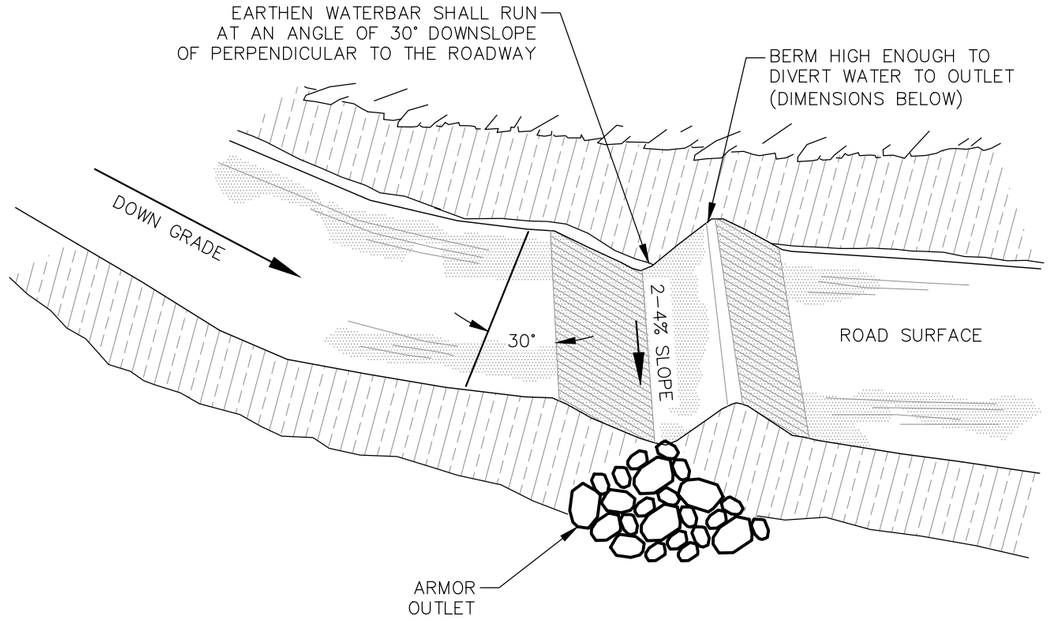
PLAN VIEW

RUBBER WATERBAR NOTES

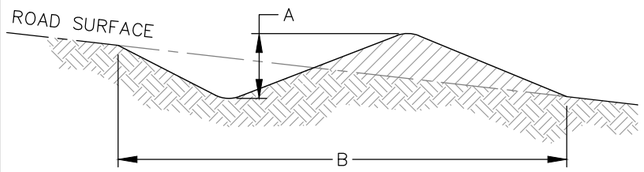
1. CONSTRUCT WATERBARS AT AN ANGLE 30° DOWNSLOPE OF PERPENDICULAR TO THE ROADWAY.
2. ALL WATERBARS SHALL BEGIN AT THE INTERSECTION OF THE ROADBED AND CUT SLOPE AND SHALL EXTEND THE ENTIRE WIDTH OF THE ROADBED.
3. PROTECT OUTLET AREA OF WATERBAR WITH RIPRAP, STONE, OR APPROPRIATE VEGETATIVE COVER.
4. IF THE WATERBAR DOES NOT OUTLET INTO A DITCH, CONSTRUCT A ROCK APRON OR LEVEL LIP SPREADER TO PREVENT CONCENTRATED FLOW.

TYPICAL EARTHEN WATERBAR

(NOT TO SCALE)



ISOMETRIC DETAILS



SELECTION OF WATERBAR DIMENSIONS SHALL BE BASED ON MINIMUM VEHICLE CLEARANCE. SEE RECOMMENDED WATERBAR DIMENSION TABLE.

RECOMMENDED WATERBAR DIMENSIONS

DIMENSION	DEEP WATERBAR	SHALLOW WATERBAR
A	24" – 30"	8" – 12"
B	6' – 10'	6' – 12'

SELECTED DIMENSIONS:

A = _____ INCHES

B = _____ FEET

TYPICAL SECTION

EARTHEN WATERBAR NOTES

1. CONSTRUCT WATERBARS AT AN ANGLE 30° DOWNSLOPE OF PERPENDICULAR TO THE ROADWAY.
2. ALL WATERBARS SHALL BEGIN AT THE INTERSECTION OF THE ROADBED AND CUT SLOPE AND SHALL EXTEND THE ENTIRE WIDTH OF THE ROADBED.
3. PROTECT OUTLET AREA OF WATERBAR WITH RIPRAP, STONE, OR APPROPRIATE VEGETATIVE COVER.
4. IF THE WATERBAR DOES NOT OUTLET INTO A DITCH, CONSTRUCT A ROCK APRON OR LEVEL LIP SPREADER TO PREVENT CONCENTRATED FLOW.

SELECTED CROSS DRAIN DETAILS

CROSS DRAIN TYPE: ☐ RUBBER ☐ EARTHEN ☐ EITHER

CROSS DRAIN SPACING: EVERY _____ FT ALONG CL OF ROADWAY

CROSS DRAIN LENGTH: _____ FT

TOTAL NUMBER OF CROSS DRAINS FOR ROAD LENGTH: _____ EA.

Date 1/1/2021

Designed

Drawn VT STANDARD DRAWING

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Approved by

United States Department of Agriculture

Natural Resources Conservation Service

HAZARD CLASS LOW

JOB CLASS

TRAILS AND WALKWAYS
SURFACE CROSS DRAIN DETAILS

VERMONT

File Name

Drawing Name VT-575-001-2021

Sheet 4 of 5

COMPUTATION SHEET
VT–NRCS–ENG–523

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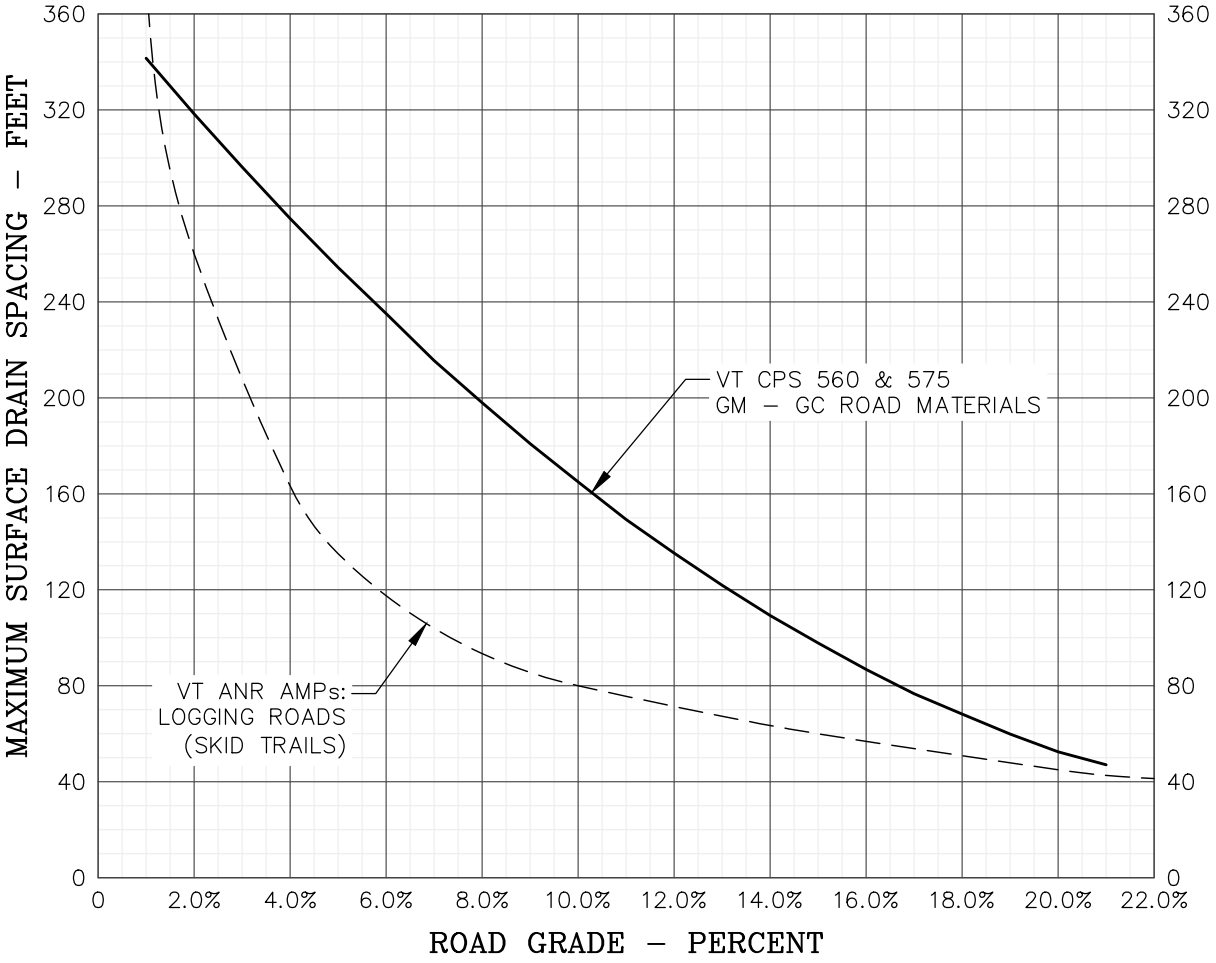
U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

STATE VERMONT	PROJECT TRAILS & WALKWAYS		
BY DATE	CHECKED BY	DATE	JOB NO.
SUBJECT WATERBAR SPACING GUIDE			1 OF 1

RECOMMENDED SURFACE DRAIN SPACING ALONG ROAD CL



ROAD GRADE = _____ %

SURFACE DRAIN SPACING = _____ FT

*THIS SHEET IS FOR COMPUTATIONS TO SUPPORT DESIGN. INCLUDE THIS SHEET WITH OTHER SUPPORTING CALCULATIONS IN THE BLUE ENGINEERING FOLDER.

DO NOT INCLUDE THIS SHEET IN THE FINAL PLAN SET.