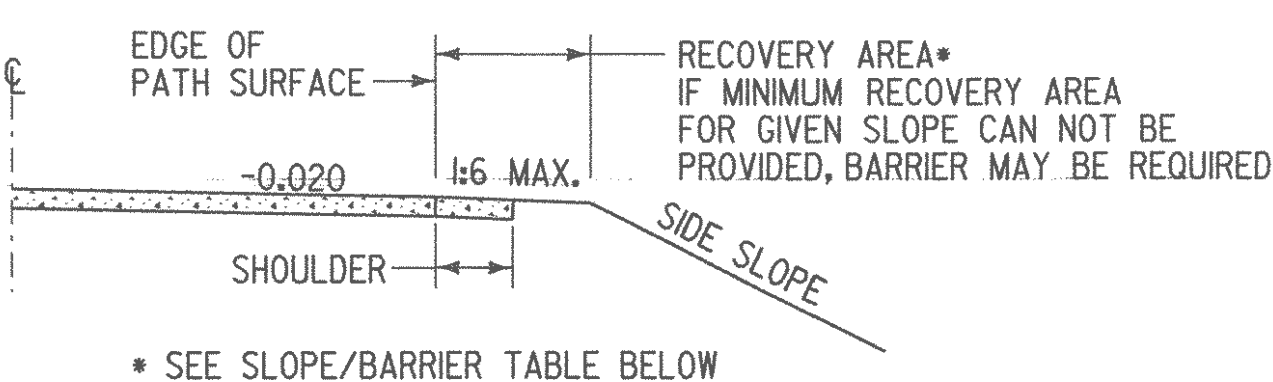
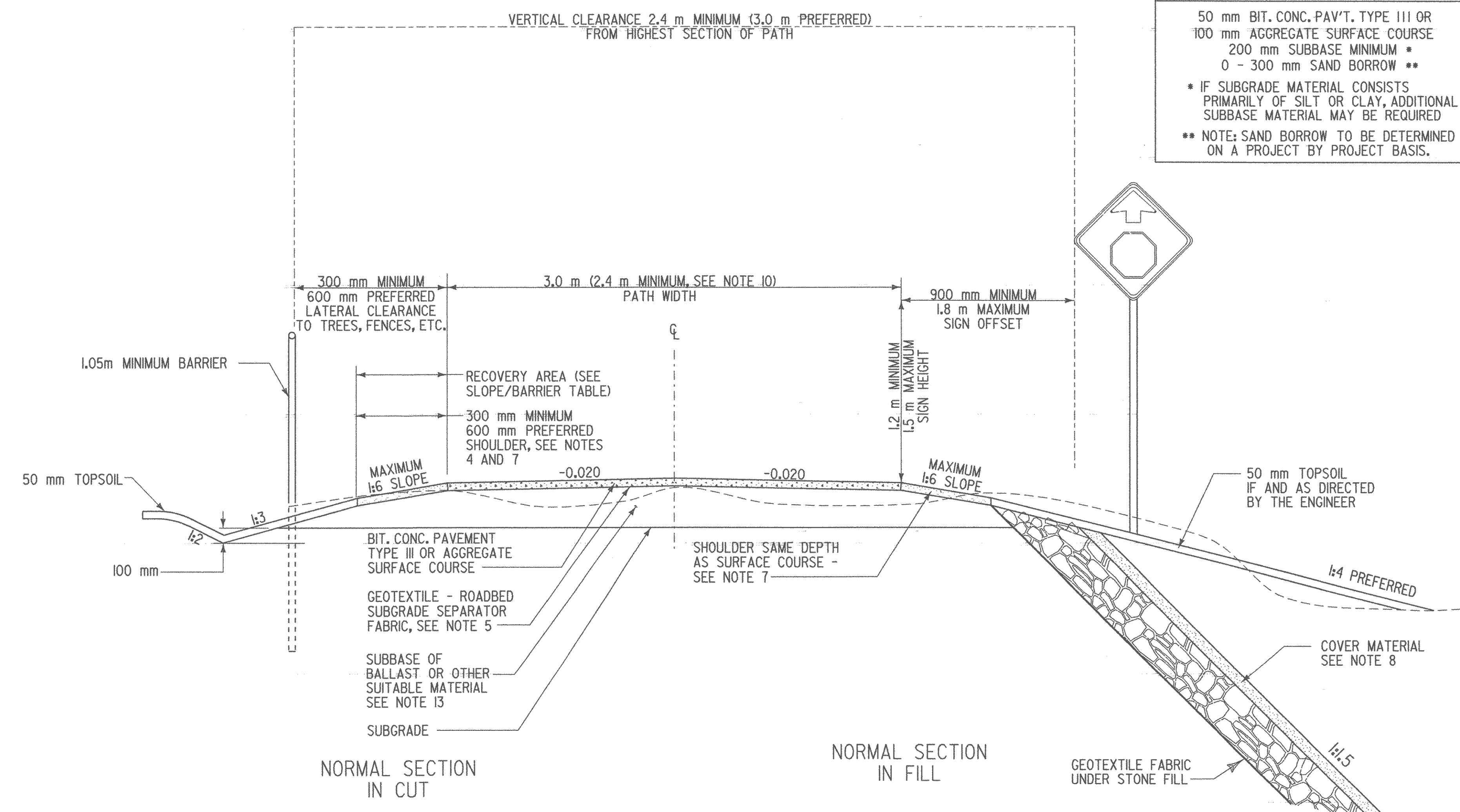


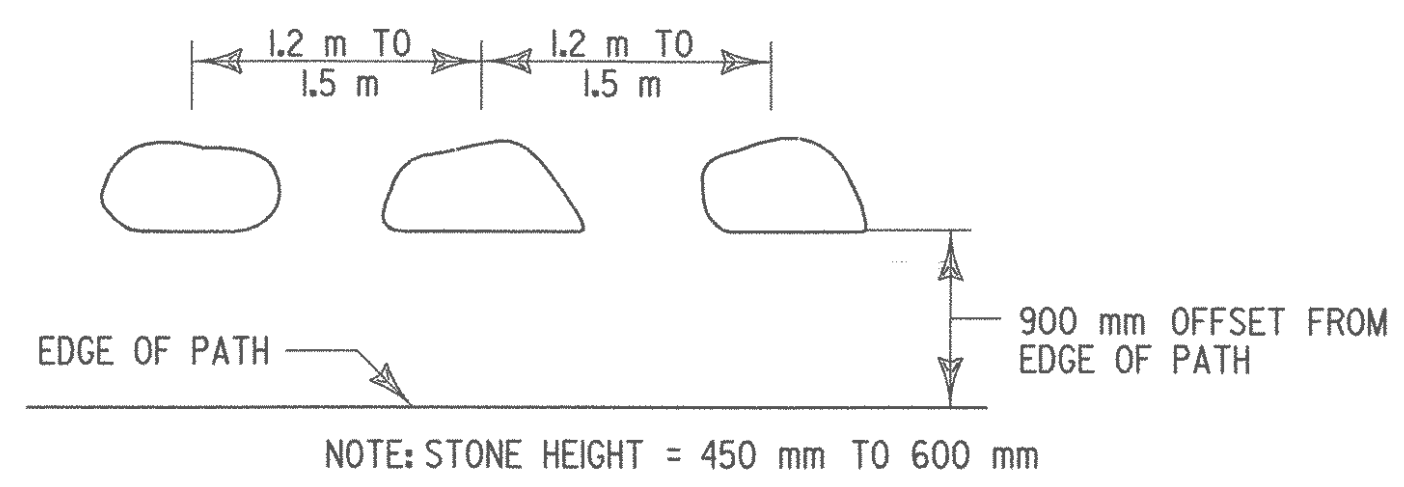
MATERIAL THICKNESS
50 mm BIT. CONC. PAV'T. TYPE III OR
100 mm AGGREGATE SURFACE COURSE
200 mm SUBBASE MINIMUM *
0 - 300 mm SAND BORROW **
* IF SUBGRADE MATERIAL CONSISTS PRIMARILY OF SILT OR CLAY, ADDITIONAL SUBBASE MATERIAL MAY BE REQUIRED
** NOTE: SAND BORROW TO BE DETERMINED ON A PROJECT BY PROJECT BASIS.

THICKNESS TOLERANCES
PAVEMENT ± 5 mm TOTAL DEPTH
AGGREGATE SURFACE ± 10 mm TOTAL DEPTH
SUBBASE ± 30 mm TOTAL DEPTH
SAND BORROW ± 30 mm TOTAL DEPTH



\* SEE SLOPE/BARRIER TABLE BELOW

SIDE SLOPE TREATMENT



STONE BARRIER  
(SEE NOTE III)

SLOPE/BARRIER TABLE					BARRIER RECOMMENDATIONS*
RECOVERY AREA WIDTH					
UNPAVED SURFACE MIN.	UNPAVED SURFACE PREFERRED	SIDE SLOPE	PAVED SURFACE MIN.	PAVED SURFACE PREFERRED	
0.0 m	600 mm	1:4 OR FLATTER	0.0 m	900 mm	GENERALLY NO BARRIER NECESSARY
600 mm	900 mm	1:3	900 mm	1.2 m	IF VERTICAL DROP 1.5 m OR GREATER, CONSIDER USE OF BARRIER UNLESS PREFERRED RECOVERY AREA IS PROVIDED
900 mm	1.5 m	1:2	1.2 m	1.5 m	IF VERTICAL DROP 1.2 m OR GREATER, CONSIDER USE OF BARRIER UNLESS PREFERRED RECOVERY AREA IS PROVIDED
1.5 m	>1.5 m	STEEPER THAN 1:2	1.5 m	>1.5 m	IF MINIMUM RECOVERY AREA NOT PROVIDED, BARRIER IS NECESSARY

\* REFER TO VAOT PEDESTRIAN AND BICYCLE FACILITY PLANNING AND DESIGN MANUAL.

SPECIFICATION FOR AGGREGATE SURFACE COURSE	
SIEVE DESIGNATION	PERCENTAGE BY MASS PASSING SQUARE MESH SIEVES
9.5 mm	80 TO 100
4.75 mm	60 TO 90
1.8 mm	20 TO 40
600 μm	14 TO 30
300 μm	10 TO 25
150 μm	8 TO 15
75 μm	0 TO 8

GENERAL NOTES:

- 1.) ALL DESIGN SHALL BE IN ACCORDANCE WITH THE VAOT PEDESTRIAN AND BICYCLE FACILITY PLANNING AND DESIGN MANUAL.
- 2.) ALL RAIL TRAILS, INCLUDING THOSE WITH UNPAVED SURFACES, SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA). REFER TO THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) FOR SPECIFIC DETAILS.
- 3.) A CROWNED SECTION MAY BE USED FOR THE PATH SURFACE ON TANGENT SECTIONS. HOWEVER, ALL CURVED SECTIONS SHALL BE BANKED TOWARD THE INSIDE OF THE CURVE. A "BANKING DIAGRAM" SHOULD BE PROVIDED. THE SUBGRADE WILL NOT BE CROWNED.
- 4.) FOR UNPAVED RAIL TRAILS, SHOULDER AND LATERAL CLEARANCE WIDTHS MAY BE REDUCED BY 300 mm IN SITUATIONS WHERE LIMITED RIGHT OF WAY OR ENVIRONMENTAL CONSTRAINTS EXIST. DECISION TO DO SO SHALL BE WELL DOCUMENTED AS OUTLINED IN THE VAOT PEDESTRIAN AND BICYCLE FACILITY PLANNING AND DESIGN MANUAL.
- 5.) WHEN USING AGGREGATE SURFACE COURSE, PLACE GEOTEXTILE ROADBED SUBGRADE SEPARATOR FABRIC BETWEEN SUBBASE AND SURFACE COURSE. WHEN USING A PAVED SURFACE, GEOTEXTILE SHALL BE PLACED BETWEEN SUBGRADE AND SUBBASE.
- 6.) ANY TREE ROOTS ENCOUNTERED WITHIN THE EXCAVATION LIMITS SHALL BE SAWCUT AND REMOVED. PAYMENT WILL BE INCIDENTAL TO COMMON EXCAVATION.
- 7.) THE SHOULDER SHALL BE EITHER TOPSOIL AND GRASS OR AGGREGATE SHOULDERS.
  - A.) ANY SLOPES ADJACENT TO WETLANDS OR STREAMS SHALL USE GRUBBING MATERIAL AS A COVER FOR THE STONE FILL.
  - B.) STONE COVERED SLOPES IN DRY AREAS SHALL USE EXCAVATED EARTH OR EARTH BORROW AS A COVER MATERIAL. COVER MATERIAL SHALL BE SEED AND MULCHED.
- 9.) IF UNSUITABLE MATERIAL IS PRESENT ON TOP OF BALLAST, IT SHALL BE REMOVED PRIOR TO GRADING.
- 10.) THE MINIMUM PATH WIDTH SHALL ONLY BE USED WHEN THE CONDITIONS NOTED IN THE VAOT PEDESTRIAN AND BICYCLE FACILITY PLANNING AND DESIGN MANUAL GUIDE ARE MET.
- 11.) BARRIER CAN CONSIST OF FENCING OR TREES/BUSHES SPACED NO GREATER THAN 1.8 m OR STONES AS SHOWN IN THE STONE BARRIER DETAIL ON THIS DRAWING.
- 12.) DITCHES WILL RECEIVE THE FOLLOWING TREATMENTS BASED ON THEIR SLOPE:
  - A.) < 1% SEED AND MULCH
  - B.) 1 - 4% EROSION CONTROL MATTING AND SEED
  - C.) 4 - 10% TYPE I STONE FILL - 300 mm DEPTH
  - D.) > 10% TYPE II STONE FILL - 600 mm DEPTH
- 13.) EXCESS BALLAST SHALL BE GRADED TO A CONSISTENT GRADE AND CROSS SLOPE.

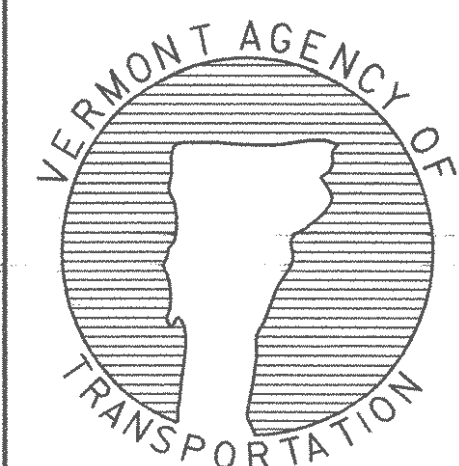
THIS SHEET IS NOT TO SCALE

OTHER STDS. A-80M, E-195M REQ'D:

REVISIONS AND CORRECTIONS  
MARCH 3, 2003 - DATE OF ORIGINAL ISSUE  
MARCH 15, 2005 - REVISED MATERIAL THICKNESS, THICKNESS TOLERANCES, GENERAL NOTES AND TYPICAL

APPROVED  
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# RAIL TRAIL TYPICAL



# VAOT Metric STANDARD A-79M