

THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

Highway Design Manual October 2023

Appendix 11-02

LEON S. KENISON COMMISSIONER

August 20, 1998

Robb R. Thomson Commissioner Dept. of Resources & Economic Development PO Box 1856, 172 Pembroke Road Concord, NH 03302-1856

Dear Mr. Thomson:

In response to your recent memo regarding the size of snowmobile underpasses, Department personnel met with Paul Gray of your Department to discuss the subject. It is my understanding a mutually acceptable resolution was reached between our Departments.

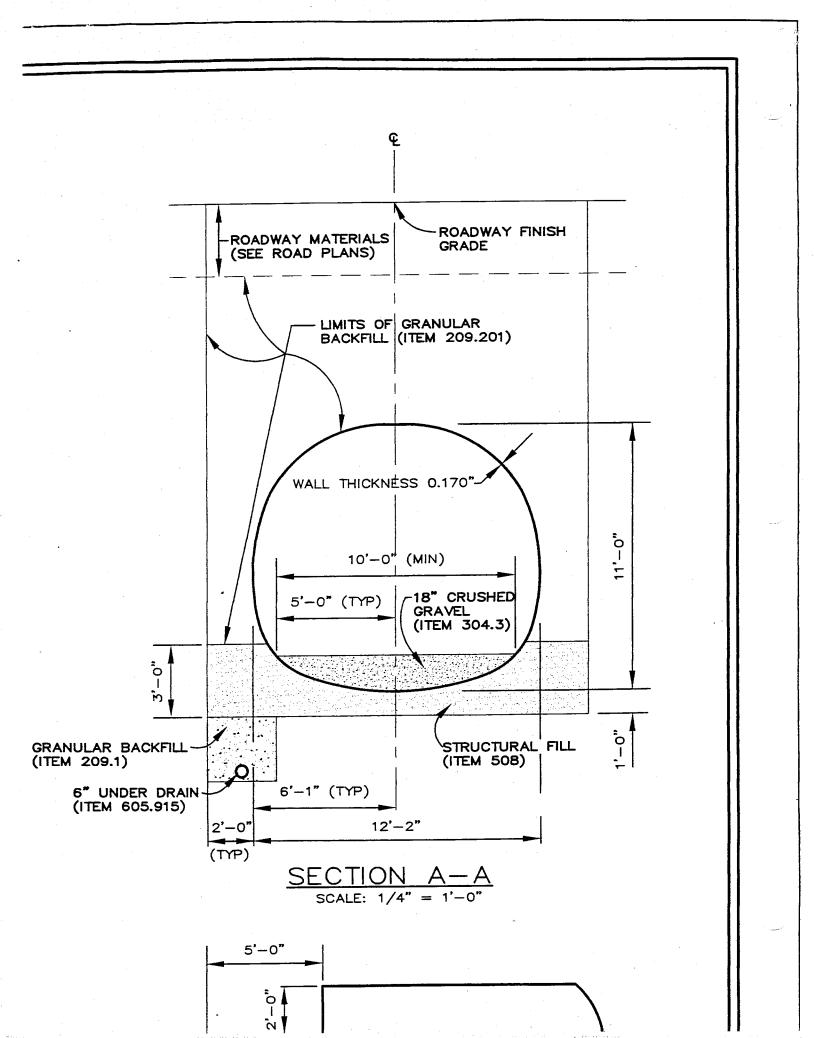
Under most applications the snowmobile underpass which we are currently using is acceptable (copy attached). In some circumstances it may be desirable to increase the size of the underpass to meet the needs of a particular trail. A request by your Department to increase the size will be incorporated into our project unless its incorporation creates a significant design problem or increases the cost of our project significantly. Each project involving a snowmobile underpass will be reviewed with your Department early in the design phase to address the underpass size as well as other issues regarding the snowmobile trail.

Hopefully, this addresses your concerns. However, if you have further comments, please let me know.

Sincerely \mathbb{C} eon S. Kenison Commissioner

LSK/RWG/snb Attachment

cc: Paul Gray, DRED Craig Green Jim Moore





ROBB R. THOMSON Commissioner

STATE OF NEW HAMPSHIRE DEPARTMENT of RESOURCES and ECONOMIC DEVELOPMENT OFFICE of the COMMISSIONER

172 Pembroke Road P.O. Box 1856 Concord, New Hampshire 03302-1856

Date: June 24, 1998

 $\frac{603-271-2411}{FAX: 603-271-2629}$

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ison, Commissioner Leon S Department of Transportation

Recreation Trails under State Highways

Subject:

To:

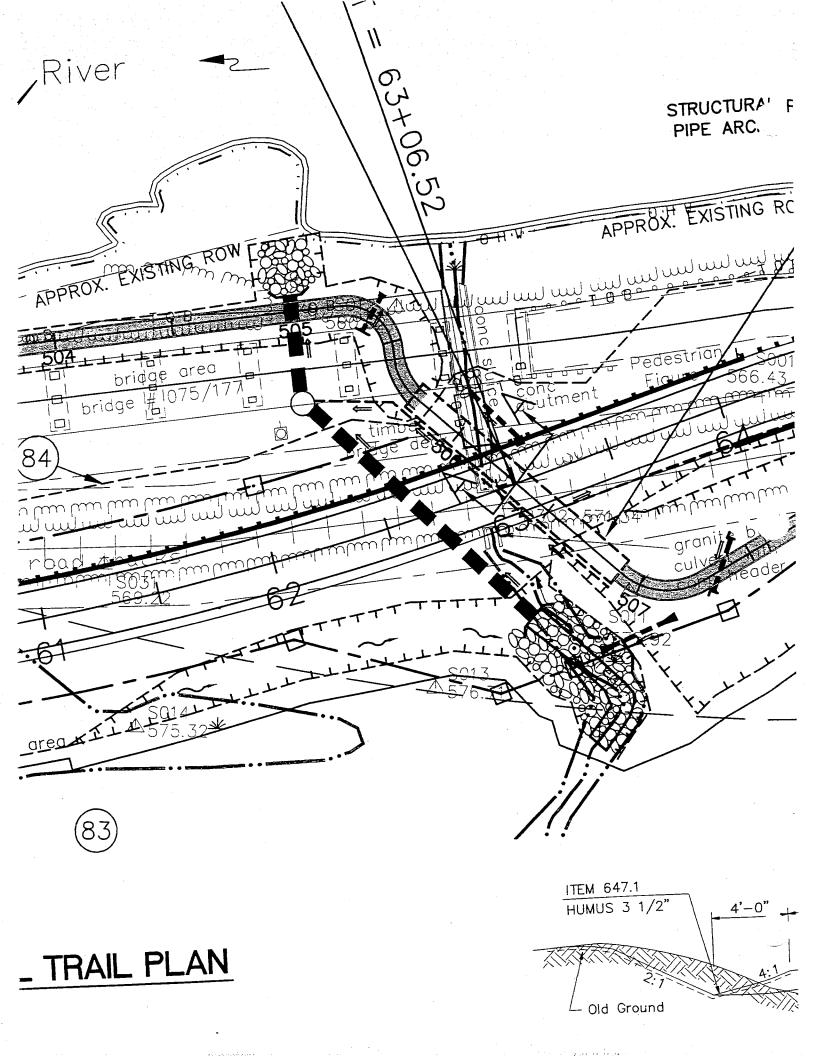
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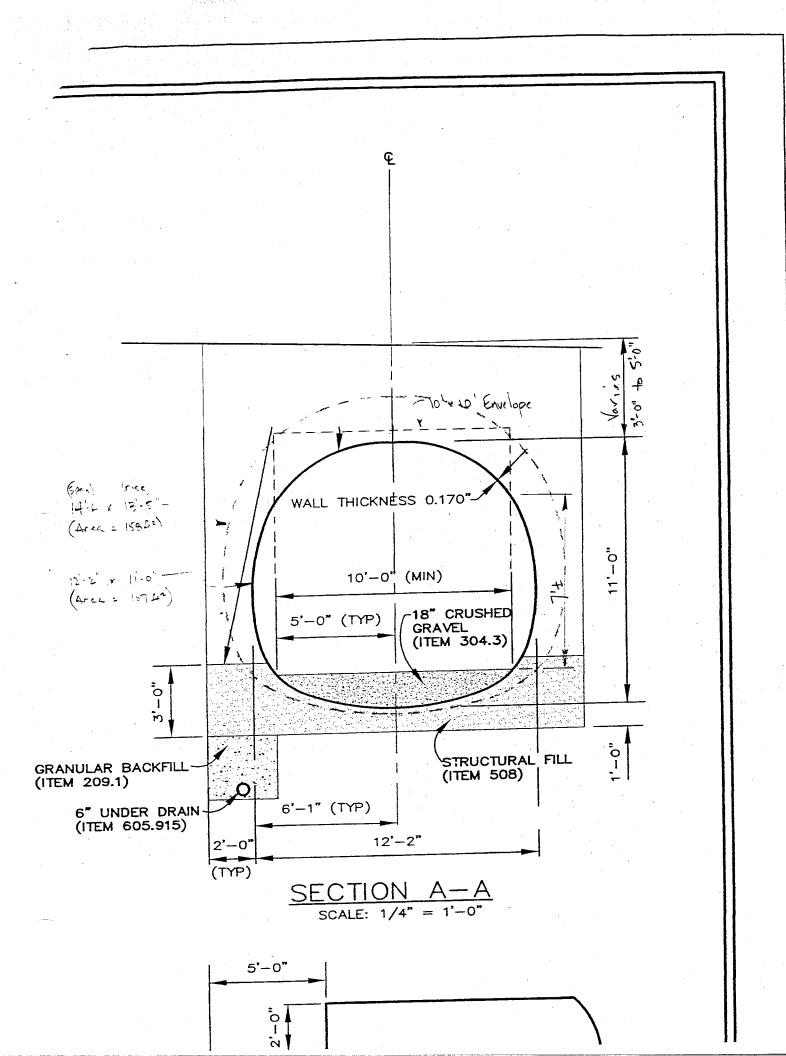
Robb R. Thomson R Commissioner

It has been brought to my attention that the design "standard" that DOT is using for structural plate pipe arches needs to be changed. The pipe arches are being installed to permit trail users to go under state highways. The reason for the change is that the current design restricts the choices of grooming equipment that the clubs will be able to use to groom the trail corridors, which include the old rail corridors the state (DOT) has recently been purchasing and turning over to the Bureau of Trails for recreation use.

The full size groomers that the clubs in the north country are currently buying are very close to being 10 feet square(with lights and brush bars). While the current tube size is adequate for the southern portion of the state, it is inadequate for the north country.

Your design staff has been very cooperative in the past. I would suggest that they contact the Bureau early in the process regarding the trail users needs.





From Jeff Bull Lu-Subject LANDAFF P- 4357 3 5 58 B K Greer 1. Communication with Trails for the landoff project has been in adervate, consisting of a Felephone conversation explaining that the proposed underpase in la company with NHDOT practice. 2. Orignally the brail crossing was proported to be at space. In dight of the bail, an underprise was much geted and found to worke using the standard pipe section. The pipe was located so that The future ramp to the future Lubra bypace could utilize the same pipe in the same location. The location also minimized metland impacts. The location was marginal in terms of providing proper cover over the pipe. The cover on the dart (uphill) end is the pipe in near the minimum, but acceptable. Alterneture to the propose à daign melude : a. Contruct a concrete box culvert with lo'xid ope in the location consently propercie for the underpan. . A dolar in advertision a likely, but it can probably

advortige this Fiscal year.

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5. Construct a new procente obening sufficient for a 10' × 10' envelope to the south. The will mareau & U w impacts, wetland impacts, and more extensive delans in des gr

Construct the pipe on proposed but fletter out C. The highway side slopes to be 4:1 on the went side of the highway so an to be Araversible by a groomer. The groomer would then leave the trail and ride along the highway crossing over the highway in the area i Sta 61+00. This requires a break in the proposed gourd rail and some add'l fill maturel to Alablen the side shopen. The trail immediately and a second adjacent to the under pass would need to be groomed by another method.

