





# **Existing Conditions**

## Wetland Permit Application

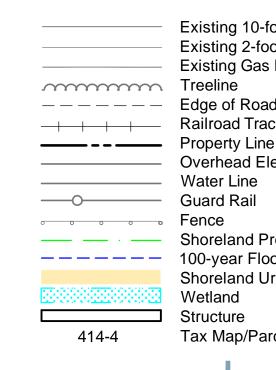
Gorham Paper and Tissue Mill Gas Pipeline Gorham, New Hampshire

Drawn By:	L. Damiano
Designed By:	K. Anderson
<b>Reviewed By:</b>	E. Steinhauser
Project No:	3297.00
Date:	July 2011

## **Reference Notes:**

- The existing topography and site features were provided to Sanborn Head in an electronic file titled "x9186-Existing.dwg" by the Maguire Group Inc. of Portsmouth, New Hampshire. Topographic survey was performed by York Land Services, LLC, of Berlin, New Hampshire in June 2011. Horizontal datum is New Hampshire State Plane coordinate system NAD83. Vertical Datum is NGVD88.
- Property line information was provided to Sanborn 2. Head in a plan titled "Site Plan, Proposed Methane Gas Pipeline Over Properties of Androscoggin Valley Regional Refuse Disposal District, Great Lakes Hydro America, and LLC Fraser, N.H. LLC., Berlin, New Hampshire," prepared by York Land Services, LLC, of Berlin, New Hampshire. Dated June 8, 2010. Property lines should be considered approximate.
- 3. Property owner information was provided to Sanborn Head by Drummond Woodsum on July 8, 2011. Refer to the Minimum Impact application for city tax maps of the the abutters and a complete abbutter list.
- 4. Limit of wetlands were provided to Sanborn Head in an electronic file titled "11037-RHWHITE-TAP-WETLANDS-6-24-2011.dwg" by Beaver Tracks, LLC of Swanzey, New Hampshire. Wetland delineation was performed in June 2011.
- 5. Shoreland urban exempt area was digitized from the map attached to the August 21, 2008 letter addressed to the Town of Gorham from the New Hampshire Department of Environmental Services, regarding the Urban Exemption Request.
- 6. The 100-year floodplain was obtained based on information provided on the Federal Emergency Management Agency (FEMA) "Flood Insurance Rate Map, City of Berlin, New Hampshire" Panel 17 of 20, effective date June 15, 1982.

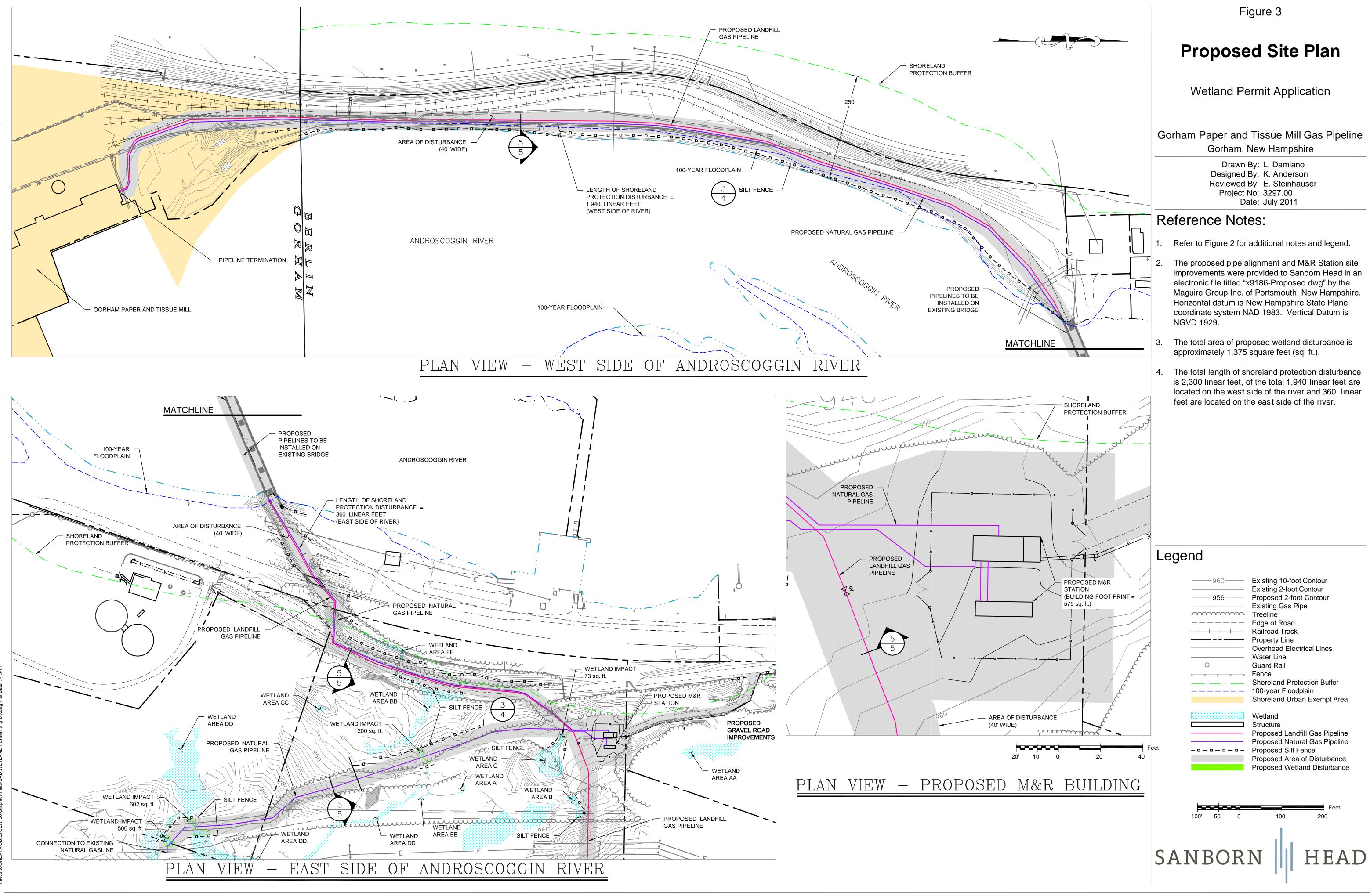
## Legend



Existing 10-foot Contour Existing 2-foot Contour Existing Gas Pipe Edge of Road Railroad Track **Overhead Electrical Lines** Water Line Guard Rail Shoreland Protection Buffer 100-year Floodplain Shoreland Urban Exempt Area Structure Tax Map/Parcel No. Designation

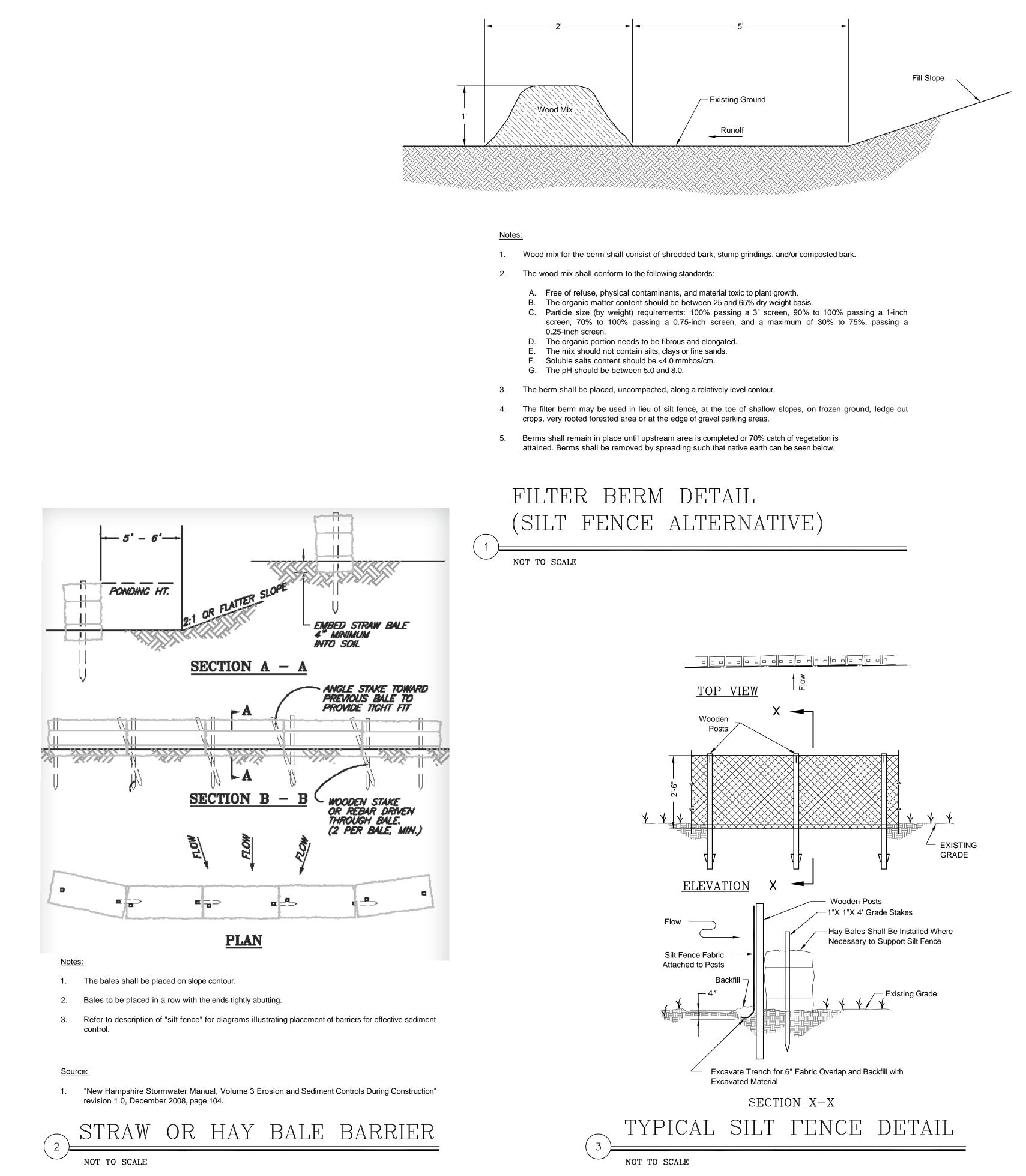
HEAD





::S:\CONDATA\3200s\3297.00\Graphics Files\CAD\WETLAND PERMIT\Fig 2-3.dwg Plot Date: 7-13





#### **Construction Sequence**

- 1. Delineate and demarcate a limit of disturbance based on the proposed grading.
- 2. Stage equipment and supplies within the limit of disturbance or other designated areas.
- 3. Install perimeter silt fence with hay bale support or filter berms where required. Construct any other erosion and sediment control devices required for site development prior to beginning improvements.
- 4. Clear brush and grub as required for construction.
- 5. Construct the M&R station, including site grading, installation of precast concrete structure, driveway gravel, and perimeter fence.
- 6. Install the LFG pipe and natural gas pipe.
- 7. Seed and mulch disturbed areas to establish vegetation as final grades are obtained. Runoff shall not be directed to downstream stormwater management features until vegetation is established.
- 8. Upon successful establishment of vegetation, remove silt fence.

#### General Notes

- 1. Soil erosion and sediment control measures will be installed in accordance with the best management practices (BMPs) specified in the "New Hampshire Stormwater Manual, Volume 3 Erosion and Sediment Controls During Construction" revision 1.0, December 2008, and will be installed in proper sequence and maintained until permanent stabilization is established.
- 2. Excavation actives to occur with the shoreland protection buffer or wetlands shall be performed in the dry. Drainage of excavated areas shall be maintained to prevent ponding of surface water and control runoff.
- 3. Perimeter controls shall be installed prior to earth moving operations.
- 4. The smallest practical area shall be disturbed during construction, but in no case shall exceed 5 acres at any one time before disturbed areas are stabilized. The term "stable" is defined as meeting one of the following criteria:
  - Base course gravels have been installed in areas to be paved;
  - A minimum of 85 percent vegetated growth has been established; • A minimum thickness of 3 inches of non-erosive material such as stone has been installed; or
- Erosion control blankets have been properly installed.
- All drainage features shall be stabilized prior to directing runoff to them. 5.
- Apply seed, lime, fertilizer, and clean straw mulch to disturbed areas, newly-placed fill slopes, and grass-lined swales 6. within seven days of achieving final grade.
- 7. Silt fence/hay bales or filter berm shall be installed at the discretion of the Contractor. Silt fence/hay bales or filter berms shall be installed along the contour and toed upslope. Silt fence/hay bales or filter berm are to be maintained and cleaned until vegetative cover is established.
- 8. All erosion controls, such as silt fence/hay bales or filter berms, shall be inspected weekly during the life of the project and after each storm event that produces 0.5 inches of rainfall. All damaged silt fence/hay bales or filter berms shall be repaired promptly.
- Remove sediment build up from behind erosion and sediment control devices. Maintain temporary erosion and sediment 9. control devices until full establishment of permanent ground cover.
- 10. All disturbed areas shall be stabilized within 30 days of of achieving finished grade.

Figure 4

## **Erosion and Sediment Control Details**

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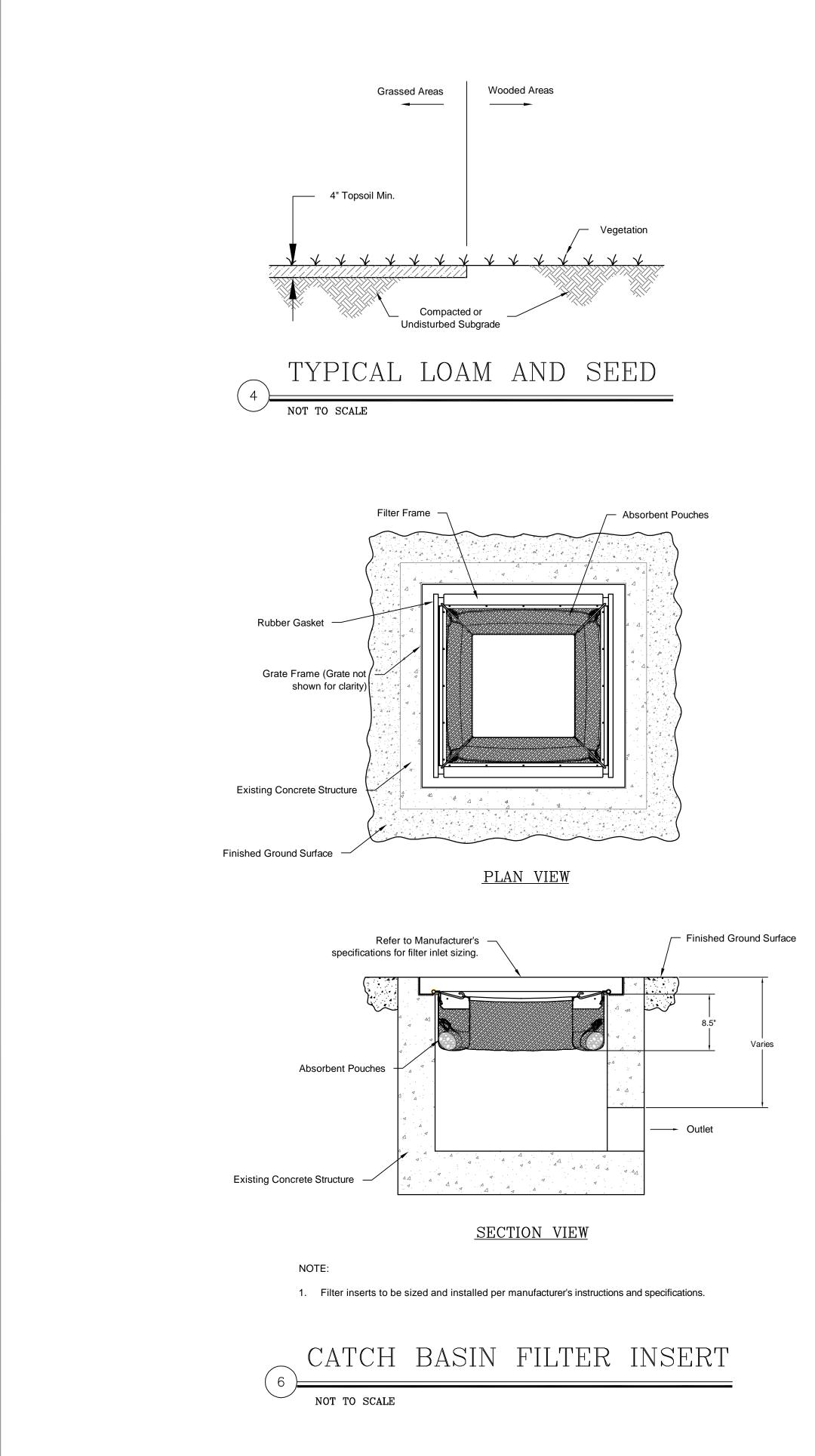
### Reference Note

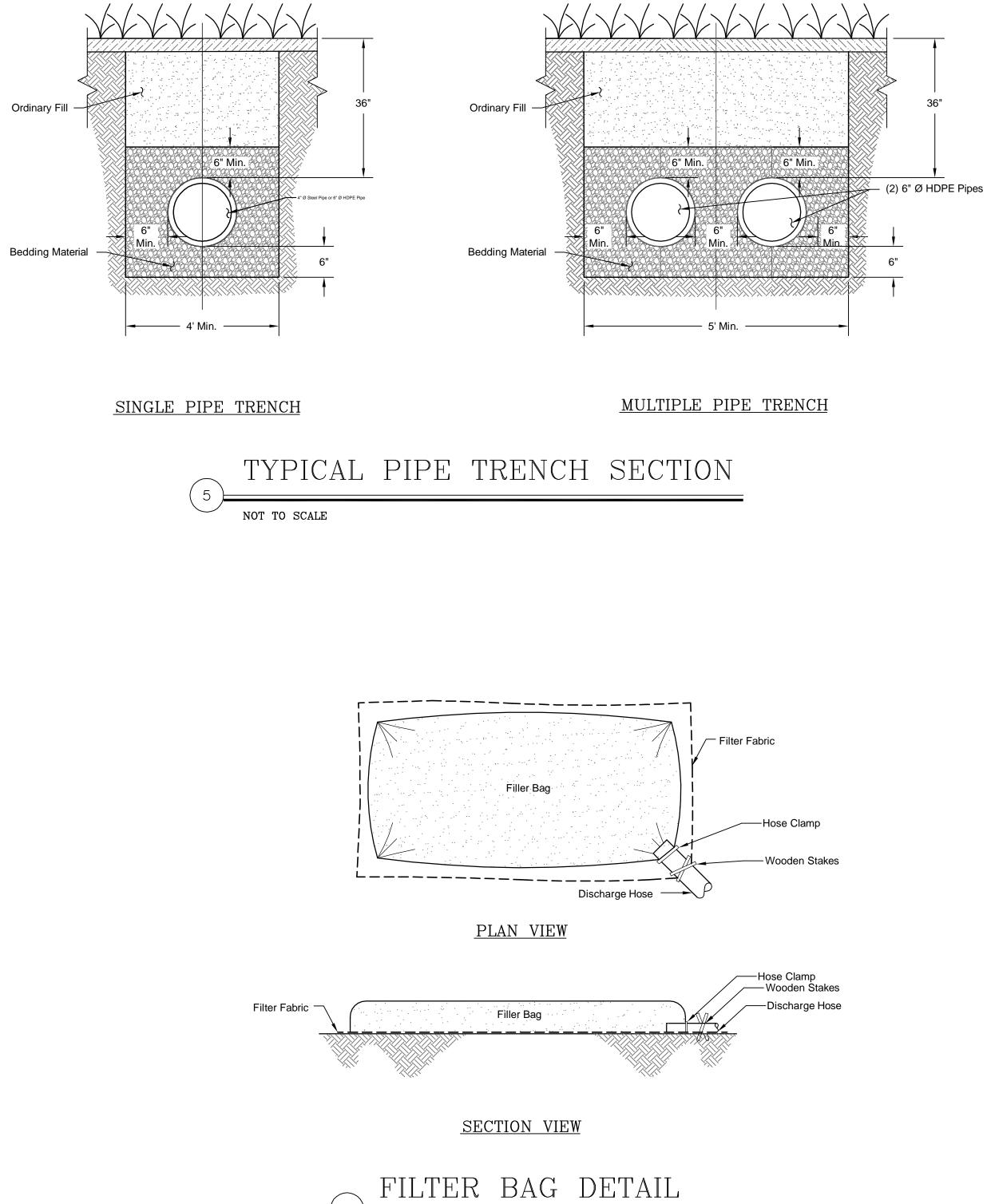
1. Refer to Figures 2 and 3 for additional notes and legend.

Scale as Noted

HEAD

SANBORN





NOT TO SCALE

Figure 5

## **Erosion and Sediment Control Details**

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### Gorham Paper and Tissue Mill Gas Pipeline Gorham, New Hampshire

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## Reference Note

1. Refer to Figures 2 and 3 for additional notes and legend.



## Scale as Noted

SANBORN HEAD



