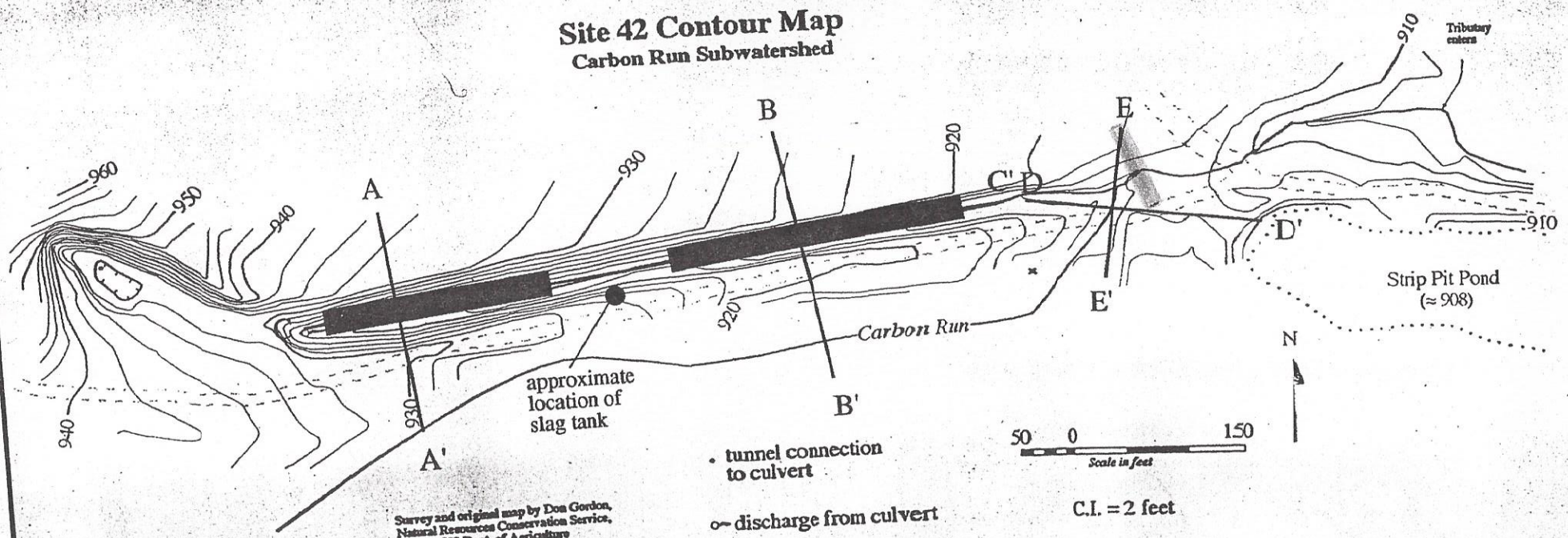
Treatment Pond No.'s 1 & 2, Location of Bottom of Units and Cross-Section Lines A, B, C, D, & E

Site 42 Contour Map
Carbon Run Subwatershed



Survey and original map by Don Gordon, Natural Resources Conservation Service, US Dept. of Agriculture

• tunnel connection to culvert

o~ discharge from culvert

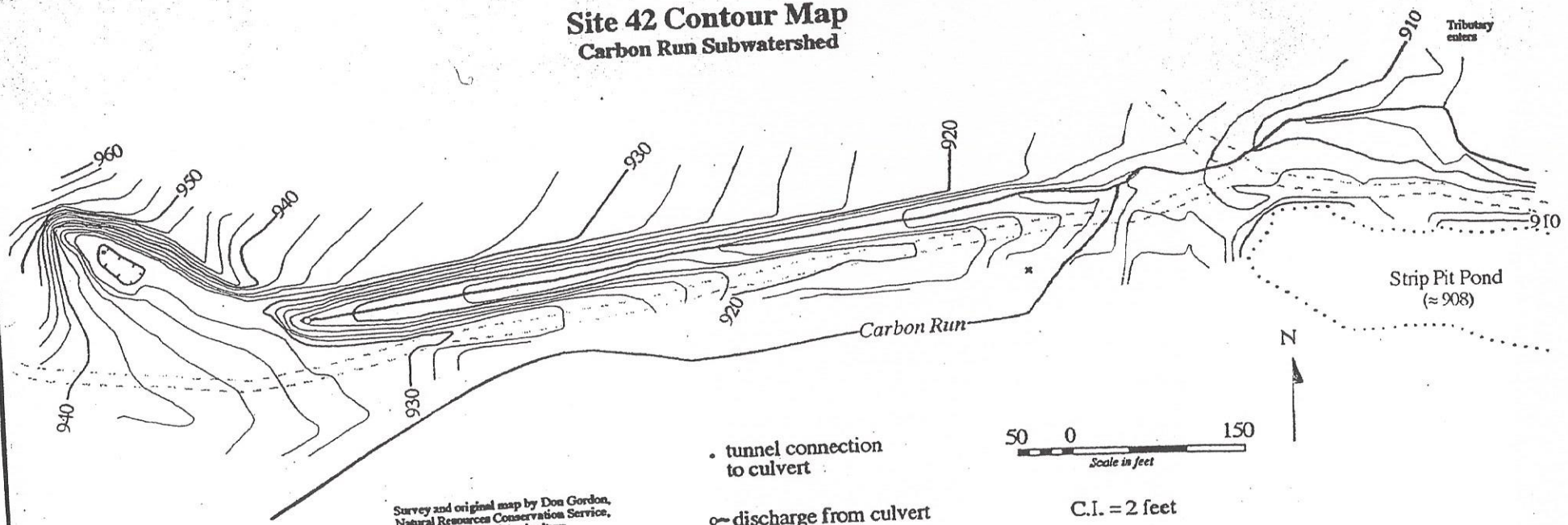
⁎ approx. location of B.M. nail w/ disk on top of stump

C.I. = 2 feet

Filter Fence

Damariscotta	650 Merle St., Suite C Clarion, PA 16214	Cross-Sections	Carbon Run, Site No. 42 Northumberland County, PA	Sheet No. 2 of 10	Prepared: 05/99 Revised:

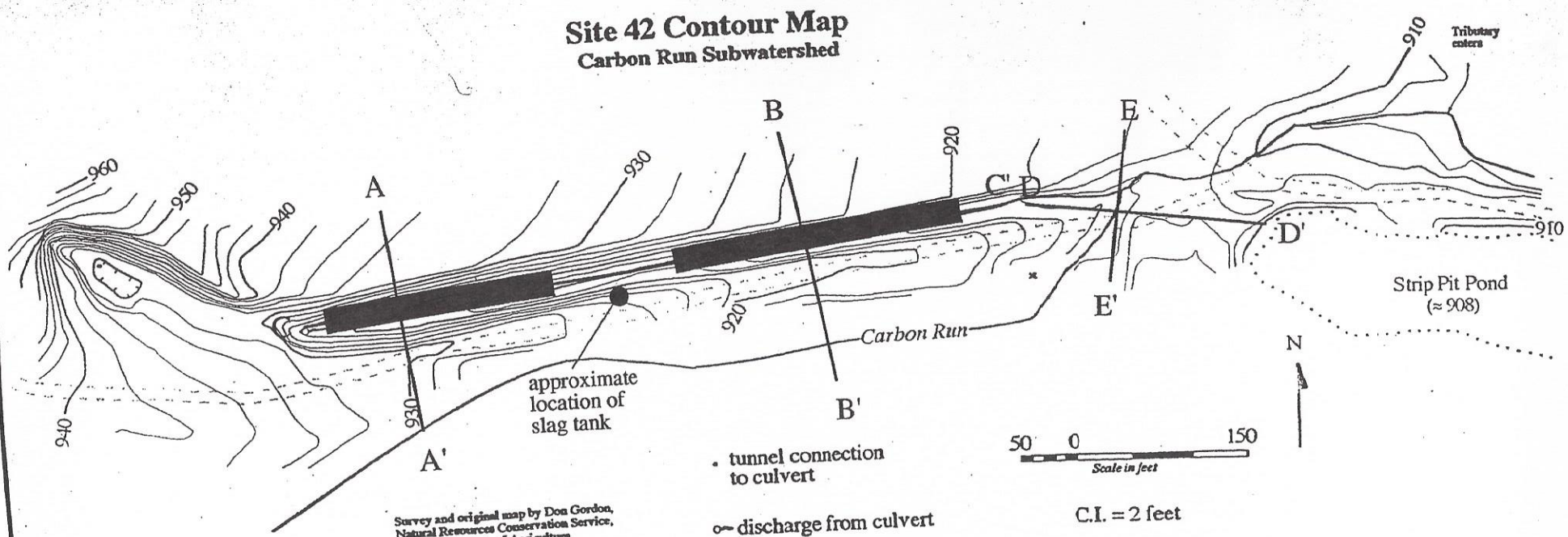
Site 42 Contour Map
Carbon Run Subwatershed



Damariscotta	650 Merle St., Suite C Clarion, PA 16214	Contour Map	Carbon Run, Site No. 42 Northumberland County, PA	Sheet No. 1 of 10	Prepared: 05/99 Revised:

Treatment Pond No.'s 1 & 2, Location of Bottom of Units and Cross-Section Lines A, B, C, D, & E

Site 42 Contour Map
Carbon Run Subwatershed

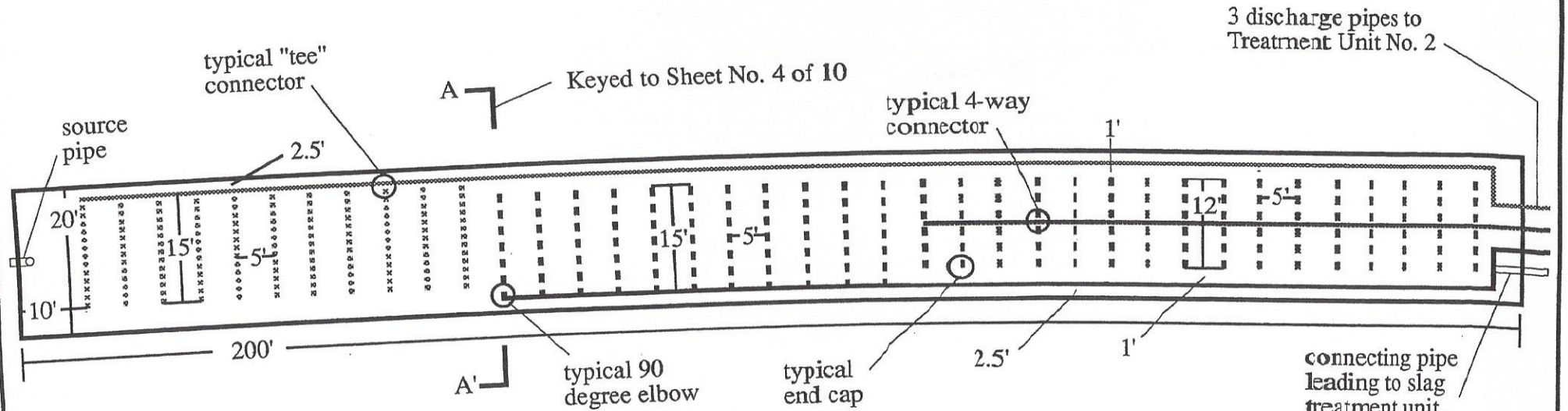


Damariscotta	650 Merle St., Suite C Clarion, PA 16214	Cross-Sections	Carbon Run, Site No. 42 Northumberland County, PA	Sheet No. 2 of 10	Prepared: 05/99 Revised:

TREATMENT UNIT NO. 1

Plan View of Piping Layout

Carbon Run, Site No. 42
Northumberland County, PA



KEY

perforated piping

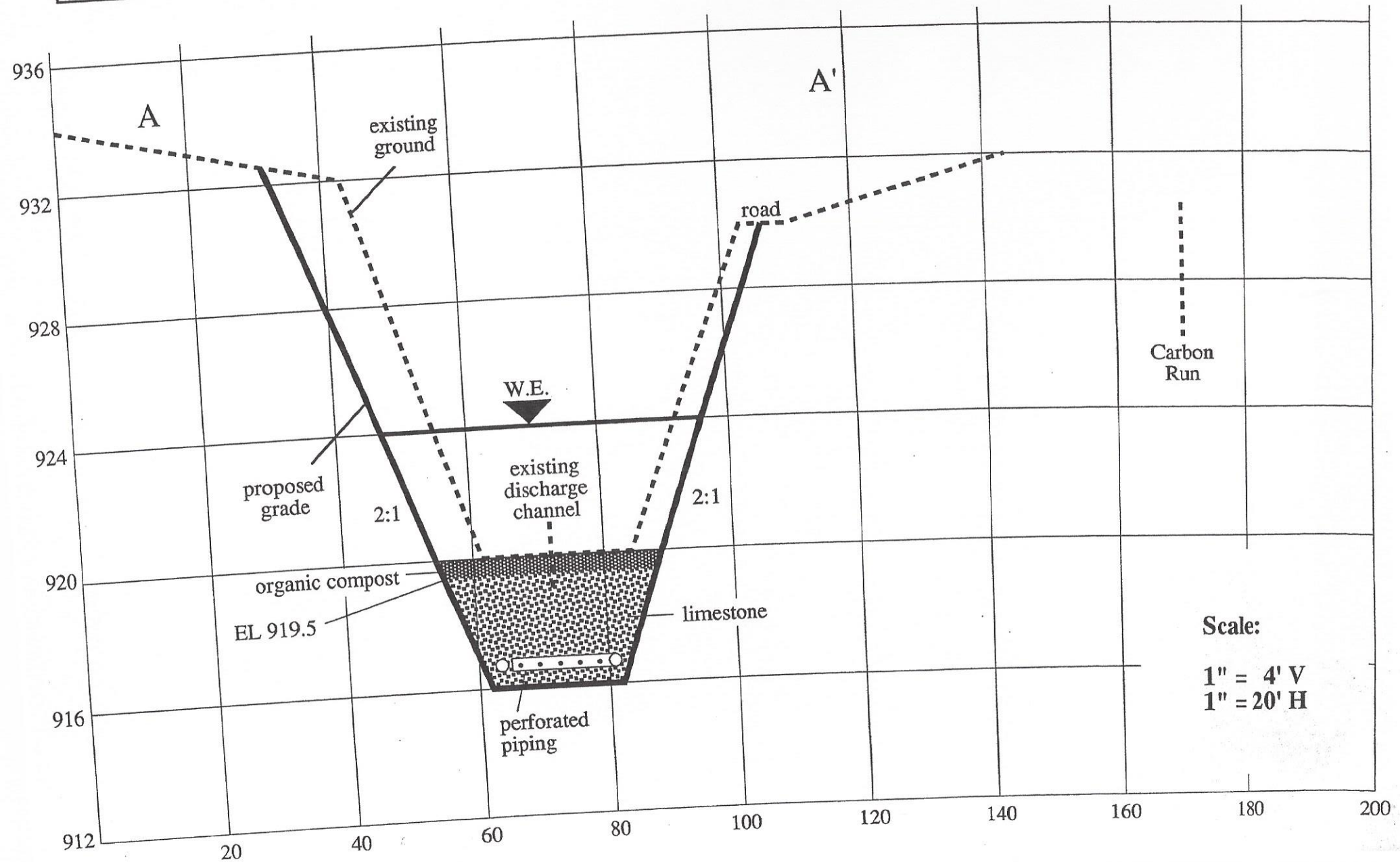
solid piping

N

Scale:
1" = 20'

Damariscotta	650 Merle St., Suite C Clarion, PA 16214	Treatment Unit No. 1	Carbon Run, Site No. 42 Northumberland County, PA	Sheet No. 3 of 10	Prepared: 05/99 Revised:

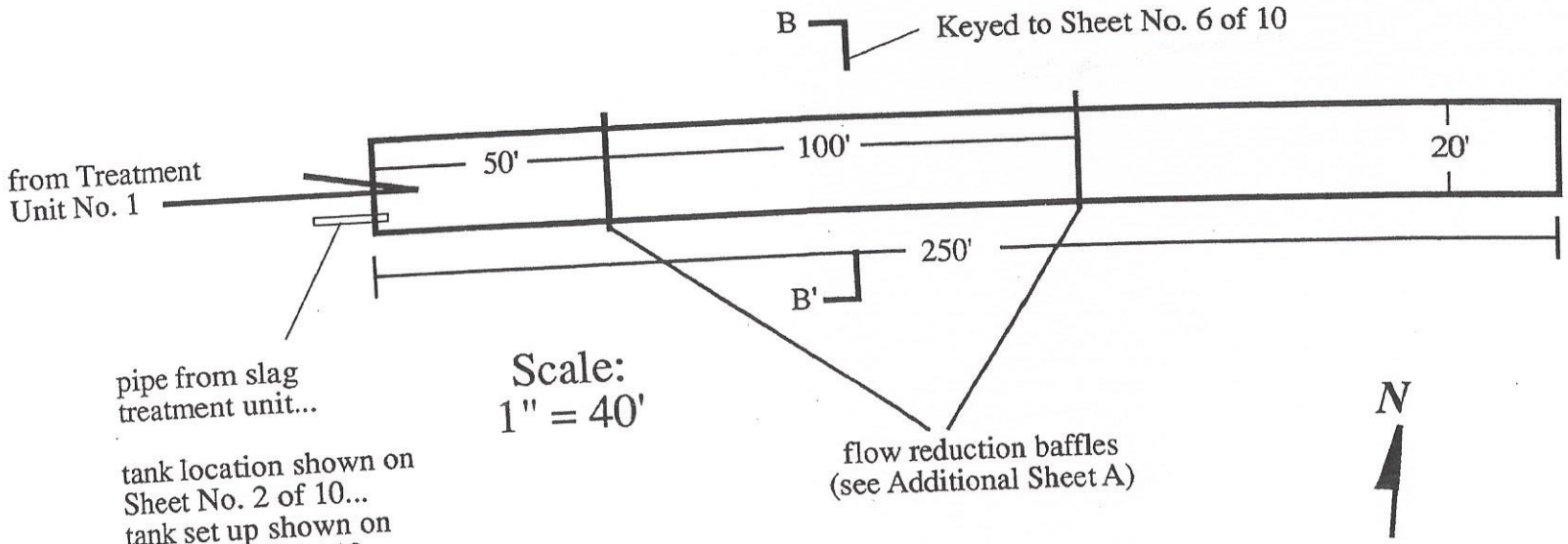
Damariscotta	Treatment Unit No. 1	Cross-Section A Keyed to Sheet No. 3 of 10	Carbon Run, Site No. 42 Northumberland County, PA	Sheet No. 4 of 10	Prepared: 05/99 Revised:



TREATMENT UNIT NO. 2

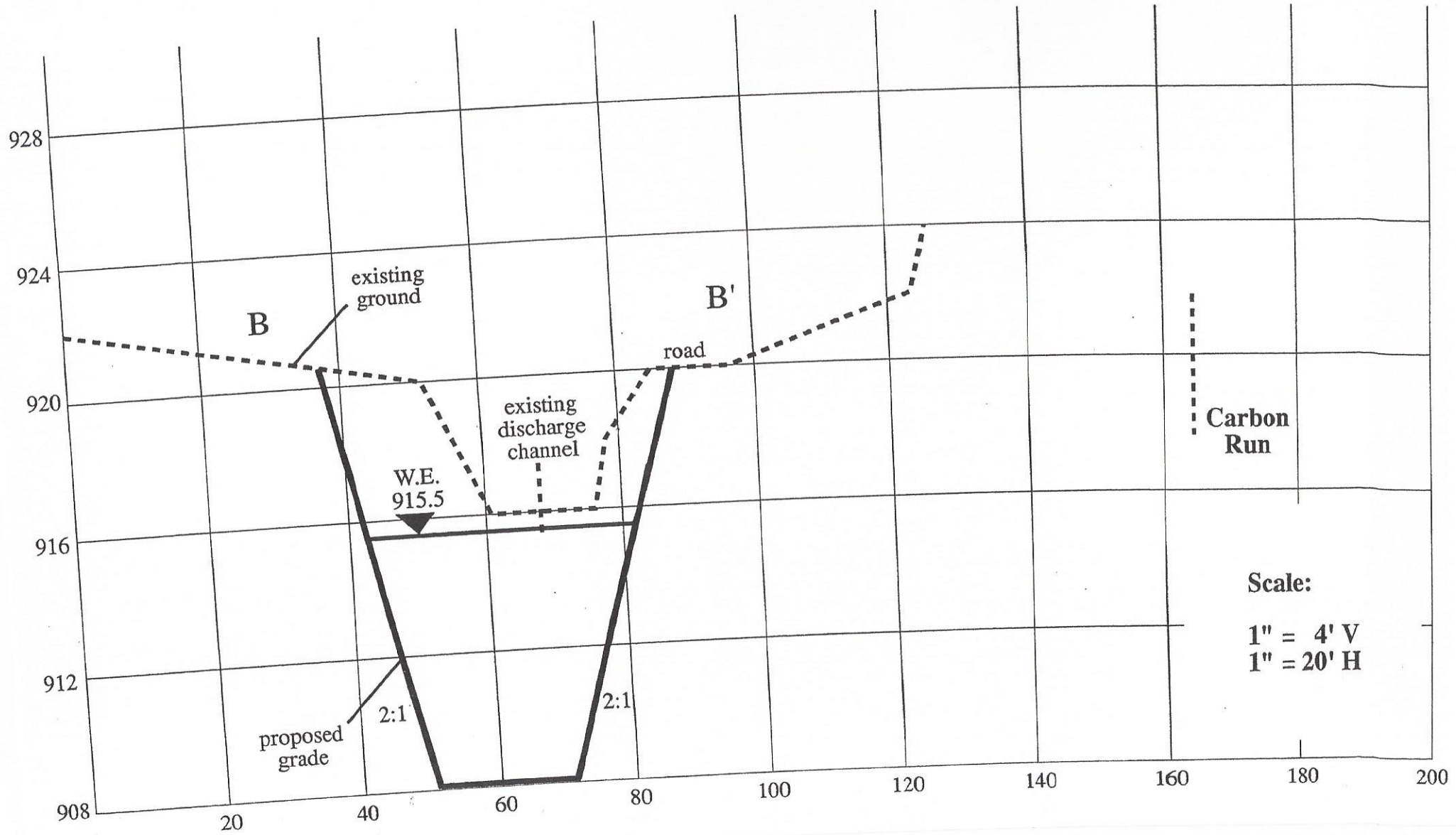
Plan View

Carbon Run, Site No. 42
Northumberland County, PA

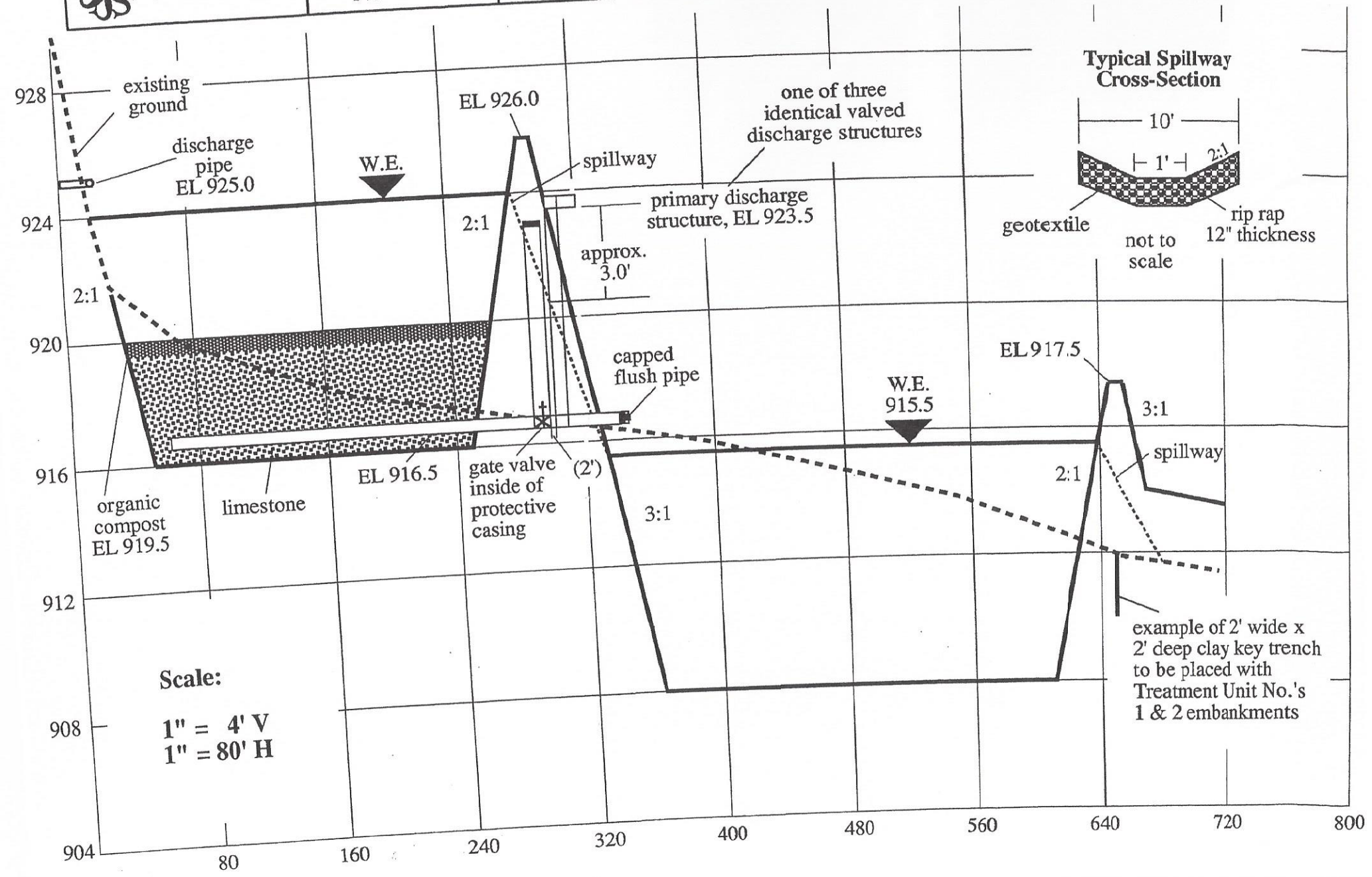


Damariscotta	650 Merle St., Suite C Clarion, PA 16214	**Treatment Unit No. 2**	**Carbon Run, Site No. 42 Northumberland County, PA**	**Sheet No. 5 of 10**	Prepared: 05/99 Revised:

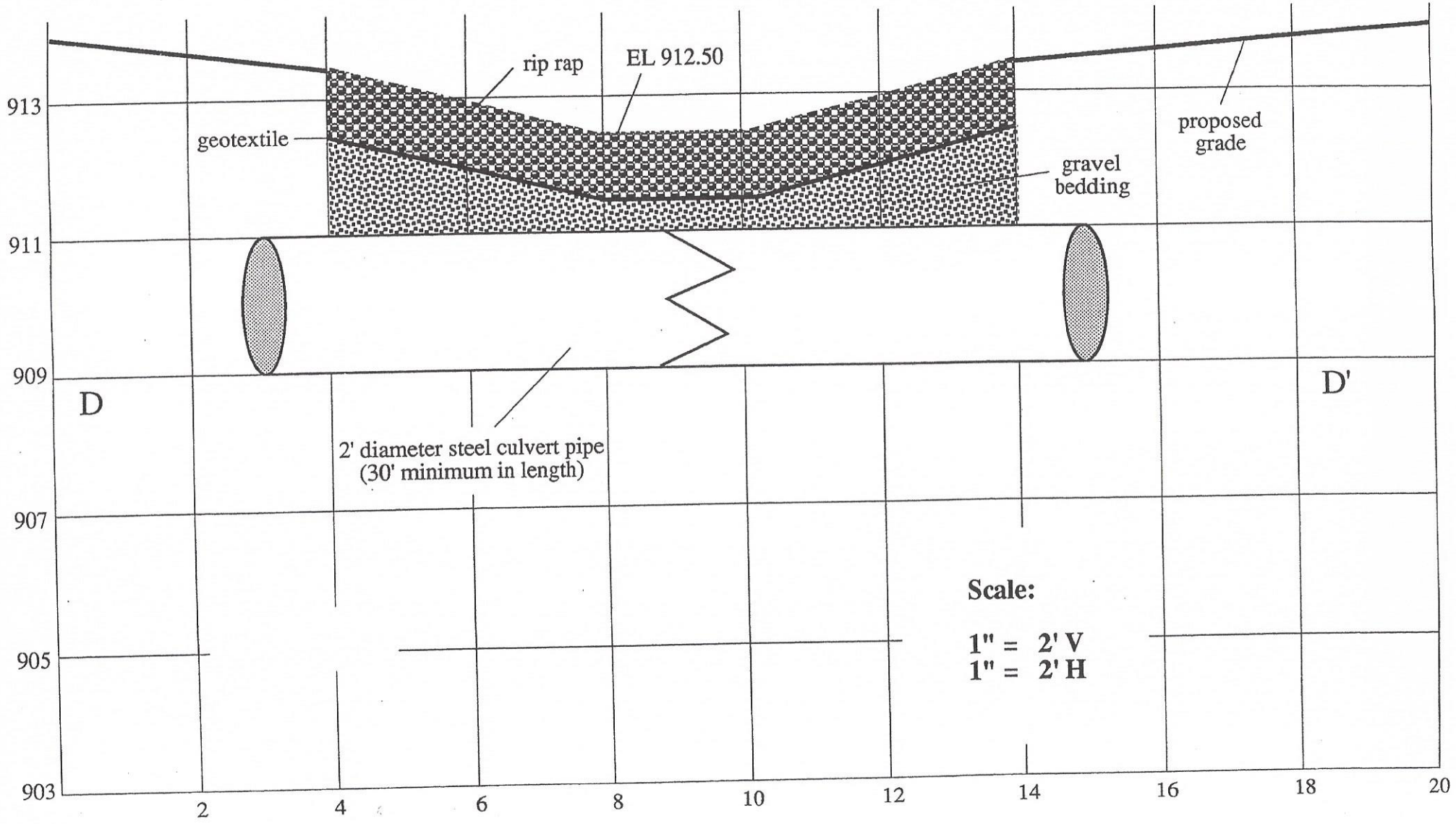
Damariscotta	Treatment Unit No. 2	Cross-Section B Keyed to Sheet No. 5 of 10	Carbon Run, Site No. 42 Northumberland County, PA	Sheet No. 6 of 10	Prepared: 05/99 Revised:



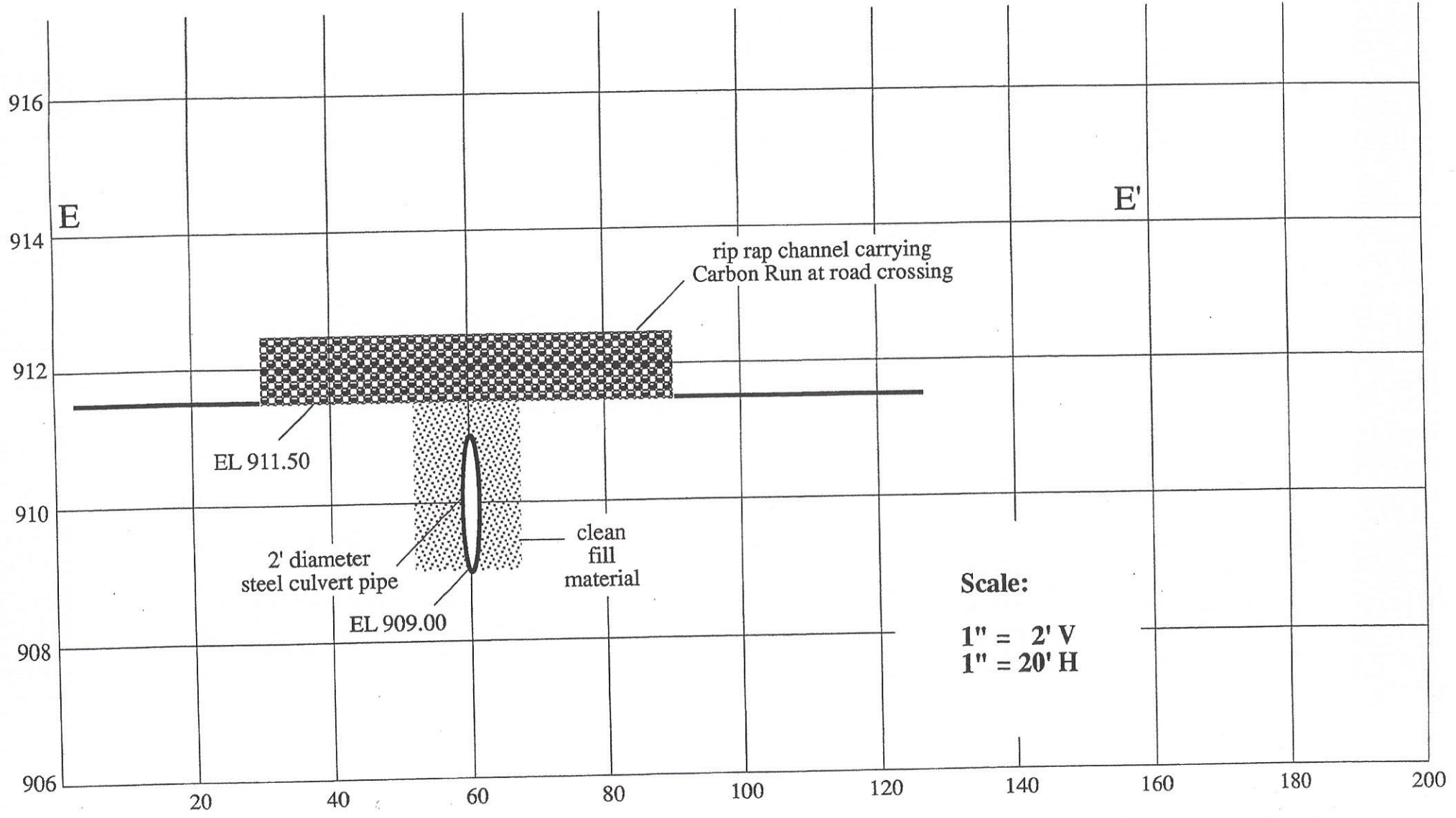
Damariscotta	Treatment Units No. 1 & 2	Cross-Section C Keyed to Sheet No. 2 of 10	Carbon Run, Site No. 42 Northumberland County, PA	Sheet No. 7 of 10	Prepared: 05/99 Revised:

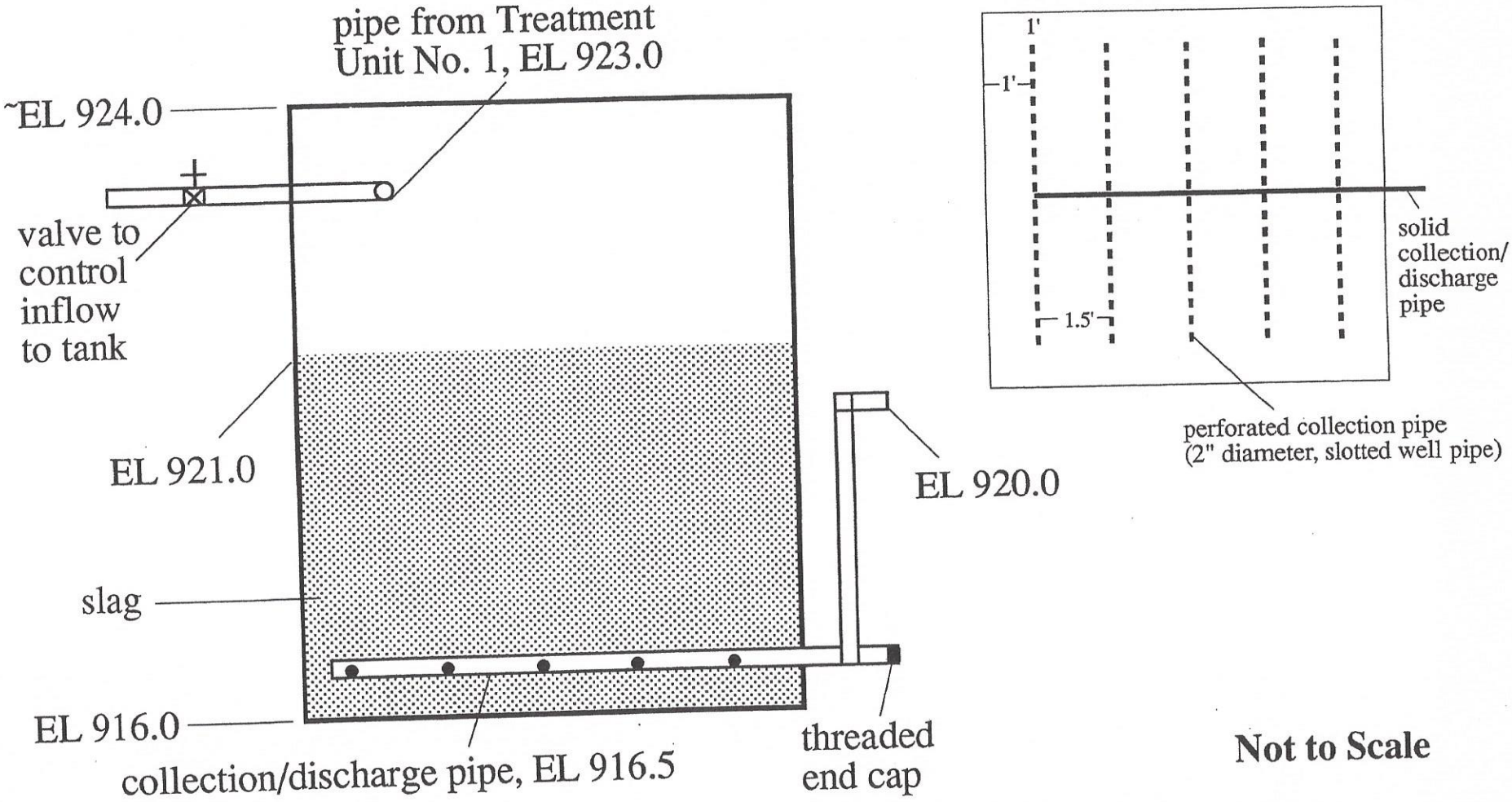


Damariscotta	Stream & Culvert	Cross-Section D Keyed to Sheet No. 2 of 10	Carbon Run, Site No. 42 Northumberland County, PA	Sheet No. 8 of 10	Prepared: 05/99 Revised:



Damariscotta	Stream & Culvert	Cross-Section E Keyed to Sheet No. 2 of 10	Carbon Run, Site No. 42 Northumberland County, PA	Sheet No. 9 of 10	Prepared: 05/99 Revised:

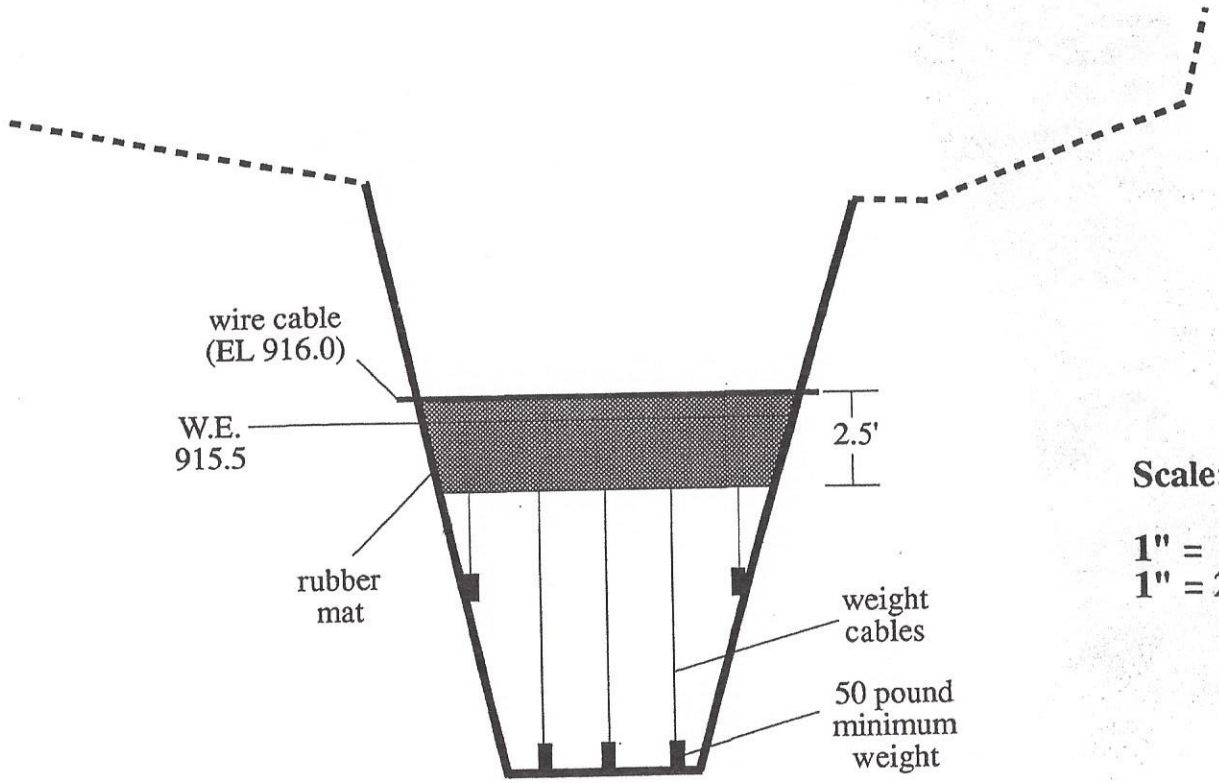




Not to Scale

Damariscotta	**Slag Tank**	Keyed to Sheet No.'s 2 and 3 of 10	**Carbon Run, Site No. 42 Northumberland County, PA**	**Sheet No. 10 of 10**	Prepared: 05/99 Revised:

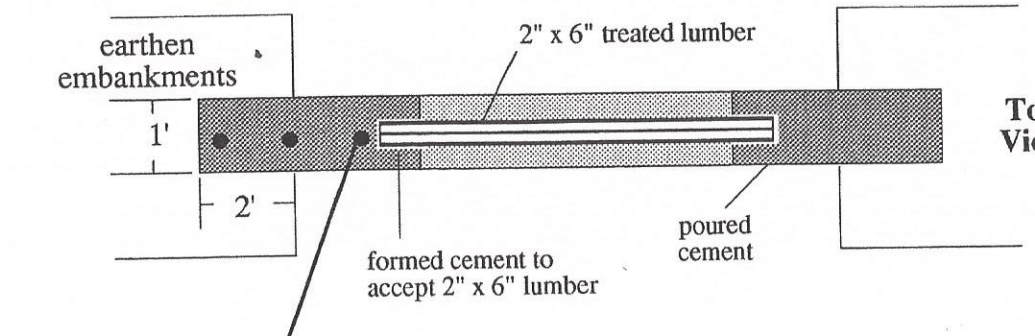
Damariscotta	Treatment Unit No. 2	Keyed to Sheet No. 5 of 10	Carbon Run, Site No. 42 Northumberland County, PA	Additional Sheet A	Prepared: 05/99 Revised:



Scale:

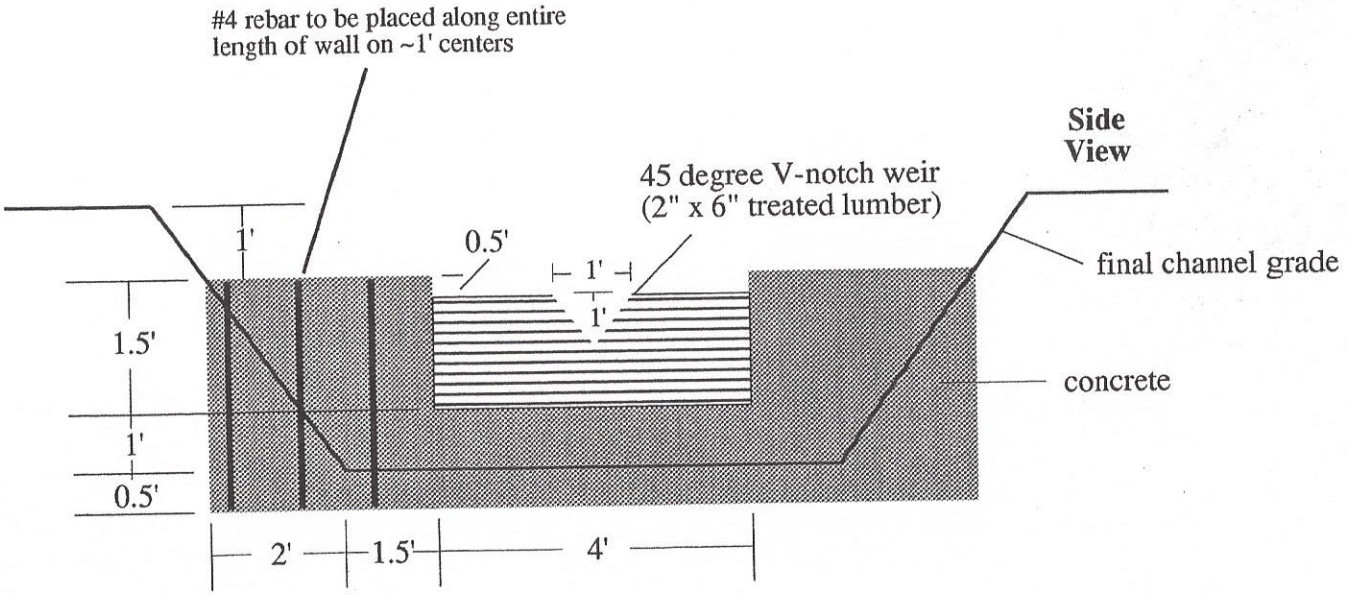
1" = 4' V
1" = 20' H

Damariscotta	V-Notched Weir	associated with Sheet No. 2 of 10	Carbon Run, Site No. 42 Northumberland County, PA	Additional Sheet B	Prepared: 05/99 Revised:



Details for "V-Notch" will be provided to the contractor at the site visit.

Lumber to be treated, tongue and grooved, and sealed between boards with silicon.



Not to Scale

Department of Geology
Bucknell University
Lewisburg, Pennsylvania 17837

Phone: 570-577-1382
Fax: 570-577-3031

Bucknell July 31, 2001

Paul Nye, Sr.
Paul Nye Enterprises
318 S 5th Street
Shamokin PA 17872

Dear Mr. Nye:

As per our telephone conversation, I have enclosed a schematic diagram for the influent water distribution pipe that you have agreed to construct and install at the Carbon Run Abandoned Mine Drainage Treatment Project. You may find it necessary to make minor modifications as you build and install this pipe system. Please contact me or Steve Ulceski (Northumberland County Conservation District Watershed Specialist; phone at Montour County Conservation District = 271-2806; cell phone = 204-6497) before making significant modifications.

We would like the work to be completed by late August or the first week of September. We must drain the pond beginning the day before you begin work, so please let give us a few days notice before installation.

We'd like to be able to refill the pond as soon as possible after you finish work. If your workers can start the pond filling for us, that would be great. To refill the pond, three PVC screw-cap drain plugs must be put back in the drainpipes at the east end of the pond. These drainpipes are about eight feet downhill of the 4" standpipes (PVC with elbows) on the dam of the pond you will be working in. The only difficultly is that hip boots make it less likely that one will get soaked when replacing the drain plugs. Please let us know if you can replace the drain plugs.

If possible, someone from the Conservation District, or Carl Kirby, or the Shamokin Creek Restoration Alliance will try to be there on the day you work to take pictures.

Directions to the site are attached to the schematic diagram.

I will be out of town from August 1 through August 14. During this time, please contact Steve Ulceski about this project.

Please bill the Northumberland County Conservation District.

Thank you for your time and work on this project.

Sincerely,

Carl S. Kirby

Carl S. Kirby
Associate Professor and Chair
570-577-1385
kirby@bucknell.edu
FAX 570-577-3031

Cc: Steve Ulceski, Northumberland County Conservation District
Jim Koharski, Shamokin Creek Restoration Alliance

Department of Geology
Bucknell University
Lewisburg, Pennsylvania 17837

Phone: 570-577-1382
Fax: 570-577-3031

Bucknell

July 12, 2001

Steve Ulceski
Watershed Specialist
Northumberland County Conservation District
RD3, Box 238-C
Sunbury, PA 17801

Dear Steve,

I've copied you on the letter to Paul Nye about the influent water distribution system that his business will install at the Carbon Run Abandoned Mine Drainage Treatment Project – Site 42.

I have asked Mr. Nye to bill the Northumberland County Conservation District. I will reimburse the Conservation District from Bucknell funds as soon as you send me a bill. Subsequently, I expect either the Conservation District or the Shamokin Creek Restoration Alliance to submit a proposal to EPCAMR in the next round of funding which will reimburse Bucknell for this work. Bucknell will provide a cash match for this grant, which will seek funds for compost purchase and installation and construction and installation of the influent water distribution system.

Please note that volunteers need to place some large rocks near where the pipe will be installed so Nye Enterprises workers will have them to support the pipe that they will install. I assume that they will do so during the August 5 Site 42 workday.

Someone will need to pull the drain plugs from the SAPS drainpipes the day before Nye Enterprises begins installation. Perhaps Pat Kazmerski could this. Also, the drain plugs will need to be replaced as soon as work is finished.

Following the workday and the installation of the influent water distribution system, and assuming we are funded from EPCAMR, the following work will need to be done:

1) Delivery of geonet. This assumes I can ever get in touch with my potential supplier from the landfill. There is also the problem of getting large rolls of this material to the site. I'll try to find out the size of the rolls. If they are 10' wide, we might be able to get them in a pickup, but they'll be heavy. Any ideas?
2) Delivery of compost to the location that Kessler Construction wants it dumped.
3) Overnight draining of the SAPS followed the next day by…..
4) Installation of geonet over the existing compost
5) Spreading of compost my large backhoe by Kessler Construction.
6) Hand spreading and smoothing of compost by ??????

Thanks for your time.

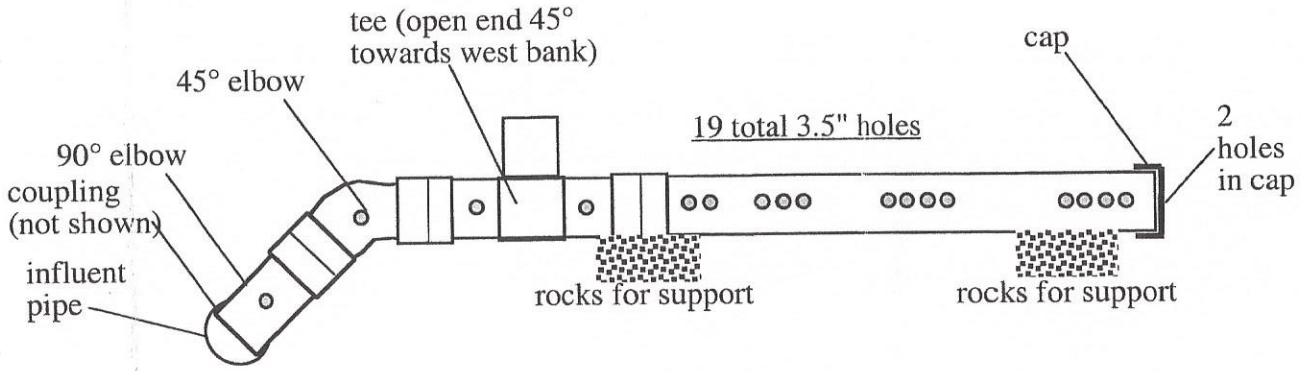
Sincerely,

Carl S. Kirby

Carl S. Kirby
Associate Professor
570-577-1385
kirby@bucknell.edu
FAX 570-577-3031

Cc: Jim Koharski

For site 42 mine drainage treatment system repair



This design should require:
15" diam corrugated plastic pipe and fittings
- 1 90° elbow
- 1 45° elbow
- 1 "tee"
- 3 or 4 standard couplings, possibly 1 custom coupling (for inflow)
- 1 10' section of straight pipe
- 1 end cap

Payment will be by Northumberland County Conservation District; contact Steve Ulceski, watershed specialist; Phone at Montour County Conservation District = 271-2806; cell phone = 204-6497

Directions to site:

- Go west past Bear Valley Strip Mine ("the Whaleback) on mining road. Stay on main mining road, going past the first intersection (a road going off to the right (North).
- Very approximately one mile past theWhaleback, the main road continues straight, but a road goes downhill toward the North. Take this road to the North and stay on the most well-traveled road, crossing Carbon Run creek via a culvert (not easily seen) at bottom of the hill. The creek is rather small at this point.
- Immediately after crossing Carbon Run, take a right into the treatment system, which cannot be seen from the road. There is a locked gate. Steve Ulceski, Jim Koharski (SCRA Vice-President; 644-0029) or I should be able to get a key to you.

On August 5, SCRA volunteers will place to rock for you to use to support the pipe near where the pipe is to be installed.

Carl Kirby (577-1385) will be out of town from Aug 1-Aug 14. During this time, contact Steve Ulceski.

We must drain the pond beginning the day before you begin work. We'd like to be able to refill the pond as soon as possible after you finish work. If your workers can start the pond filling for us, that would be great. We can show/tell them how. The only difficultly is that hip boots make it less likely that one will get soaked when putting the drain plugs back in the drainpipes at the east end of the pond.

If possible, someone from the Conservation District, or Carl Kirby, or the Shamokin Creek Restoration Alliance will try to be there on the day you work to take pictures.