



County of Ottawa

Office of the Drain Commissioner

Stephen J. Van Hoesen
Commissioner

Linda S. Brown
Deputy

414 Washington Street Room 107 Grand Haven, MI 49417-1494

(616) 846-8220 Fax (616) 846-8221

May 14, 1999

Donald Van Doeselaar, Superintendent of Schools
Art Bolt, Assistant Superintendent of Schools
Hudsonville School Administrative Building
3886 Van Buren
Hudsonville, MI 49426

Dear Mr. Van Doeselaar and Mr. Bolt:

On behalf of the owners of lots 21 - 27 in Schoolside Estates I am requesting permission to access the Hudsonville Middle School parcel to reconstruct a portion of a ditch. Schoolside lots 21 - 27 are experiencing high water levels during moderate storm events. I believe that proposed improvements to the capacity of this portion of the ditch will provide substantial drainage relief to these lots.

Enclosed is 1) a sketch highlighting the location of the proposed reconstructed ditch on the school parcel, 2) the proposed cross-section of the reconstructed ditch and 3) a drainage contribution map.

My continuing research indicates that 157 acres of watershed lies upstream of the Schoolside lots and that the existing drainage pattern, (which is located near the property line between the school and Schoolside), is smaller than the upstream drainage system recently installed on the Middle School parcel. As a result of this research a larger ditch cross-section is being proposed but in the same general area discussed at our April 15th meeting.

No cut and fill activity is proposed in adjacent wetlands except behind lot 26. This minor wetland encroachment was discussed and accepted by MDEQ subject to my commitment to repair the significant erosion on the school property near the SE corner of lot 21.

The portion of the school property utilized for this work will be neatly leveled and seeded and left free of debris.

I would like to review this project with a representative from the school, possibly the person in charge of grounds at the Middle School, prior to commencement of work. If you allow our proposed work to take place please provide the name and telephone number of your designated

Post-It® Fax Note	7671	Date	5/18	# of pages	2
To	Jason Vander Kotte	From	Steve VanHoesen		
Co./Dept	Nederveld	Co.			
Phone #		Phone #			
Fax #		Fax #			

Review & Comment please

COPY TO : MITCH KOSTER

457-5655

MITCH - we are providing comment,
AND STEVE IS MAILING IT OUT AT 5PM

OF DAY
-JASW

representative. We would like to commence our work in June and would need approximately a week to complete our work weather permitting.

We are not requesting funding or an easement from the school for this activity.

Please inform me if this activity would be allowed by the Hudsonville School District.

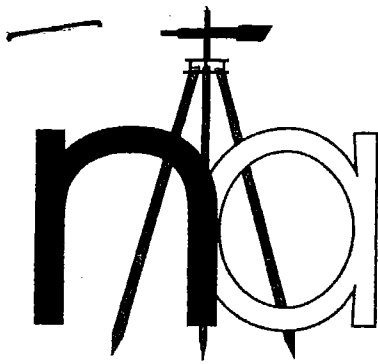
Sincerely,

Steve Van Hoeven
Ottawa County Drain Commissioner

SVH/akj

encl.

cc: Tim Gerrits, GMB (with attachments)
Jason Vander Kodde, Nederveld & Associates
Charamy Butterworth, Schoolside resident representative



nederveld associates, inc.
engineering • surveying

Hudsonville Corporate Office
5570 32nd Avenue • P.O. Box 10
Hudsonville, MI 49426
(616) 669-5190
Fax (616) 669-6699

Holland Office
575 E. 16th Street
Holland, MI 49423
(616) 393-0449
Fax (616) 392-3540

Norton Shores Office
374 Seminole Road
Norton Shores, MI 49444
(616) 733-4114
Fax (616) 733-5303

May 6, 1999

Mr. Steve Van Hoeven
Ottawa County Drain Commission
414 Washington
Grand Haven, MI 49417

RE: Schoolside Estates Nos. 2 and 3. -- Part of the NE $\frac{1}{4}$ of Section 18, T6N, R13W,
Georgetown Township, Ottawa County, Michigan

Dear Mr. Van Hoeven:

Enclosed is a sketch of the proposed location for the off-site drainage ditch pertaining to the above-referenced development. This sketch reflects the decisions made during the on-site meeting of April 29, 1999. Also enclosed are a sketch of the ditch cross-section as designed by Nederveld Associates, and a drainage area map of the contribution area to the ditch. This information should assist you in communicating the current situation and proposed solution to the school personnel.

Please contact me at 800-222-1868, extension 130, if you have any questions or require additional information.

Sincerely,

Jason Vander Kodde
Project Engineer

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Enclosures

c: Mitch Koster (w/encl.)

Required Swale Section Worksheet for Trapezoidal Channel

Project Description	
Project File	x:\haestad\fmw\98\983194\983194.fm2
Worksheet	schoolside 2 - offsite
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Discharge

Input Data	
Mannings Coefficient	0.030
Channel Slope	0.003500 ft/ft
Depth	2.50 ft
Left Side Slope	2.000000 H : V
Right Side Slope	2.000000 H : V
Bottom Width	4.00 ft

Results		
Discharge	85.71	cfs
Flow Area	22.50	ft ²
Wetted Perimeter	15.18	ft
Top Width	14.00	ft
Critical Depth	1.80	ft
Critical Slope	0.013526	ft/ft
Velocity	3.81	ft/s
Velocity Head	0.23	ft
Specific Energy	2.73	ft
Froude Number	0.53	
Flow is subcritical.		

