

GENOA CHARTER TOWNSHIP
Board of Trustees
Regular Meeting
May 20, 2013
6:30 p.m.

AGENDA

Call to Order:

Pledge of Allegiance:

Call to the Public*:

Approval of Consent Agenda:

1. Payment of Bills.
2. Request to approve minutes of May 6, 2013.
3. Consider approval of an Equal Employment Opportunity and Harassment policy change to the Personnel Manual.
4. Consider approval of a budget amendment to the Parks and Recreation Fund #270

Approval of Regular Agenda:

5. Consider approval of an Environmental Impact Assessment and site plan for proposed site improvements and grading at Mt. Brighton.
 - A. Approve Environmental Impact Assessment
 - B. Approve Site Plan
6. Consider approval of Resolution #2 for issuance of statutory notice and publication for the Timberview Road Improvement Special Assessment District.
7. Consider results from a survey of the Mountain/Mystic/Milroy area related to proposed road improvements.
8. Consider a request to enter into a closed session to discuss pending litigation as provided for by M.C.L. 15.268(e)

Correspondence
Member Discussion
Adjournment

<p>*Citizen's Comments- In addition to providing the public with an opportunity to address the Township Board at the beginning of the meeting, opportunity to comment on individual agenda items may be offered by the Chairman as they are presented.</p>
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CHECK REGISTERS FOR TOWNSHIP BOARD MEETING

DATE: May 20, 2013

TOWNSHIP GENERAL EXPENSES: Thru May 20, 2013	\$116,139.57
May 10, 2013 Bi Weekly Payroll	\$69,994.12
OPERATING EXPENSES: Thru May 20, 2013	\$405,460.11
TOTAL:	<u>\$591,593.80</u>

<u>Check Number</u>	<u>Vendor No</u>	<u>Vendor Name</u>	<u>Check Date</u>	<u>Check Amount</u>
29632	AmerAqua	American Aqua	05/01/2013	103.80
29633	ARCHINAL	Michael Archinal	05/01/2013	500.00
29634	AT&T Fax	AT&T	05/01/2013	67.94
29635	CES	C.E.S.	05/01/2013	124.37
29636	Clearwat	Clearwater Systems	05/01/2013	52.00
29637	MASTER M	Master Media Supply	05/01/2013	10.99
29638	OEX	Office Express Inc.	05/01/2013	83.15
29639	SKOLAR P	Paulette Skolarus	05/01/2013	69.00
29640	TRI COUN	Tri County Supply, Inc.	05/01/2013	90.00
29641	Equitabl	Equivest Unit Annuity Lock Box	05/10/2013	660.00
29642	APEX SOF	Apex Software	05/06/2013	40.00
29643	CONTINEN	Continental Linen Service	05/06/2013	96.43
29644	DTE LAKE	DTE Energy	05/06/2013	974.23
29645	Duncan	Duncan Disposal Systems	05/06/2013	76,900.60
29646	FLORESA	Austin Flores	05/06/2013	50.00
29647	FONSON	Fonson, Inc.	05/06/2013	619.45
29648	HURON	Huron Sign Co	05/06/2013	16,953.00
29649	LANGWORTL	Langworthy Strader Leblanc	05/06/2013	3,287.08
29650	LEO'S CU	Leo's Custom Sprinkler Service	05/06/2013	254.70
29651	RuthigJ	Josh Ruthig	05/06/2013	65.00
29652	Access	Access Equipment, Inc.	05/10/2013	312.00
29653	Brighton	Brighton Analytical , L.L.C.	05/10/2013	97.00
29654	GENOA TW	Genoa Township	05/10/2013	158.52
29655	GENOADPW	Genoa Township DPW Fund	05/10/2013	66.42
29656	GORDONFO	Gordon's Food Services	05/10/2013	115.81
29657	GTFFPR	GenoaTwp-Fut Paths,Pks & Rec	05/10/2013	1,150.00
29658	HUBBELL	Hubbell, Roth, Clark, Inc.	05/10/2013	500.40
29659	LincolnO	Lincoln Office Solutions, Inc.	05/10/2013	8,422.64
29660	MASTER M	Master Media Supply	05/10/2013	214.45
29661	MROCZKA	Laura Mroczka	05/10/2013	79.90
29662	OEX	Office Express Inc.	05/10/2013	288.94
29663	Perfect	Perfect Maintenance Cleaning	05/10/2013	1,281.75
29664	PFEFFER	Pfeffer, Hanniford, Palka	05/10/2013	2,450.00

Report Total: 116,139.57

Accounts Payable
Computer Check Register

Genoa Township

2911 Dorr Road
Brighton, MI 48116

(810) 227-5225

User: angie

Printed: 05/03/2013 - 11:54

Bank Account: 101CH

Check	Vendor No	Vendor Name	Date	Invoice No	Amount
11092	AETNA LI	Aetna Life Insurance & Annuity	05/10/2013		25.00
				Check 11092 Total:	25.00
11093	EFT-FED	EFT- Federal Payroll Tax	05/10/2013		7,557.29 4,163.75 4,163.75 973.79 973.79
				Check 11093 Total:	17,832.37
11094	EFT-PENS	EFT- Payroll Pens Ln Pyts	05/10/2013		1,914.76
				Check 11094 Total:	1,914.76
11095	EFT-TASC	EFT-Flex Spending	05/10/2013		871.10
				Check 11095 Total:	871.10
29641	Equitabl	Equivest Unit Annuity Lock Box	05/10/2013		660.00
				Check 29641 Total:	660.00
11096	FIRST NA	First National Bank	05/10/2013		250.00 2,480.00 45,885.89 75.00

Check 11096 Total:

48,690.89

Report Total:

69,994.12

First National
Direct Deposit
May 10, 2013
Bi-Weekly Payroll

<u>Employee Name</u>	<u>Debit Amount</u>	<u>Credit Amount</u>
Genoa Township	\$48,690.89	
Aaron Korpela		\$1,147.19
Adam Van Tassell		\$1,087.15
Alex Chimpouras		\$2,009.02
Amy Ruthig		\$1,010.23
Angela Williams		\$769.57
Ashley Repke		\$1,101.42
Caitlin Nims		\$1,252.26
Carol Hanus		\$1,255.17
Craig Bunkoske		\$1,591.22
Dakota Olvin		\$614.63
Daniel Schlack		\$1,633.80
Dave Estrada		\$1,305.98
David Miller		\$1,953.37
Deborah Rojewski		\$1,594.91
Diane Zerby		\$604.14
Erin Daksiewicz		\$693.34
Greg Tatara		\$2,766.71
Jacob Mitchell		\$950.71
James Aulette		\$1,872.83
Jeffrey Meyers		\$1,550.98
Jenifer Kern		\$703.35
Jonathan Morton		\$1,541.38
Kathleen Murphy		\$529.42
Kathryn Poppy		\$559.70
Karen J. Saari		\$999.18
Kelly VanMarter		\$2,100.83
Kimberly MacLeod		\$1,176.19
Kristen Sapienza		\$453.66
Laura Mrocza		\$1,711.33
Martin Reich		\$1,612.94
Michael Archinal		\$2,726.27
Robin Hunt		\$1,297.78
Ryan Kaiser		\$274.38
Scott Lowe		\$0.00
Steven Anderson		\$1,590.05
Susan Sitner		\$859.59
Tammy Lindberg		\$1,010.47
Tesha Humphriss		\$2,157.07
Zakk Olvin		\$622.67
Total Deposit		\$48,690.89

11:36 AM
05/14/13

#595 PINE CREEK W/S FUND
Payment of Bills
April 30 through May 14, 2013

Type Date Num Name Memo Amount

no checks issued

11:30 AM

#503 DPW UTILITY FUND
Payment of Bills
April 30 through May 14, 2013

<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
Check	05/02/2013	2443	HRdirect	INV 1327746 1327758 - 04/18/13	-119.98
Check	05/02/2013	2444	Jim Aulette	Reim mileage - YUCA WWTP Class	-56.50
Check	05/02/2013	2445	Greg Tatara	Car Allowance - May 2013	-500.00
Check	05/02/2013	2446	Tesha Humphriss	Car Allowance - May 2013	-500.00
Check	05/08/2013	2447	Genoa Township	Reimburse Genaeral Fund for payroll-per Ken P.	-300,000.00
Check	05/08/2013	2448	Ashley Repke	Mileage Reimbursement	-179.07
Check	05/08/2013	2449	Tractor Supply Co.	04/01/2013-04/30/2013-#6035 3012 0324 0252	-1,381.83
Check	05/08/2013	2450	LOWE'S	99006416418 04/2013 statement	-1,893.89
Check	05/08/2013	2451	Pfeffer-Hanniford-Palka	services provided 02/11/2013-04/30/2013	-1,950.00
Check	05/13/2013	2452	Absolute Auto Repair	Invoice# 77692	-824.24
Check	05/13/2013	2453	Auto Zone	Invoices# 2170071976-02/04/2013 #217011900:	-126.84
Check	05/13/2013	2454	Business Imaging Group	Invoice # 225689 04/02/2013	-36.17
Check	05/13/2013	2455	Occupational Health Centers	Invoice # 708846102- 05/06/2013	-193.00
Check	05/13/2013	2456	HACH	Invoice # 8156974-02/15/2013	-125.00
Check	05/13/2013	2457	PAETEC	AccT # 2119355 05/01/2013	-34.47
Check	05/13/2013	2458	Port City Communications, Inc.	Invoice # 444405012013 -05/15/2013	-279.90
Check	05/13/2013	2459	Pyramid Environmental Training	Invoice # 50113-05/01/2013	-550.00
Check	05/13/2013	2460	TalentWise	Invoice # 90300021-04/30/2013	-264.00
Check	05/13/2013	2461	Staples Credit Plan	6035 5178 6145 0400 month of April 2013	-666.43
Check	05/13/2013	2462	Chase Card Services	5582 5086 3893 2167 Month of April 2013	-920.36
Check	05/14/2013	2463	Federal Express	Invoice # 2-265-29879 05/08/2013	-189.67
Check	05/14/2013	2464	Mancuso & Cameron	Leagl Matters 04/01/2013-04/03/2013	-75.00
Check	05/14/2013	2465	U.S. POSTMASTER	Oak Pointe Billing-Feb-April 2013	-308.82
Check	05/14/2013	2466	Red Wing Shoe Store	Ticket # 517033586	-161.99
Check	05/14/2013	2467	Nicholas Stankevich	reimburse for mileage	-485.90

Grand Total **-311,823.06**

11:32 AM

#593 LAKE EDGEWOOD W/S FUND**Payment of Bills**

April 30 through May 14, 2013

<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
Check	04/30/2013	2348	Wolverine Power Systems	Inv #'s 0073242-IN	-930.00
Check	05/08/2013	2349	DTE Energy	Service from 03/28/13-04/26/13	-4,427.81
Check	05/10/2013	2350	Wolverine Power Systems	Inv #'s 0074932-IN & 074202-IN	-1,669.50
Check	05/10/2013	2351	Consumers Energy	Acct 1000 2370 3554	-156.54
Check	05/10/2013	2352	Brighton Analytical L.L.C.	Inv # 0413-80740 & 0513-80794	-154.00
Check	05/10/2013	2353	Genoa/Oceola Sewer Authority	Monthly Container Rental-Invoice 178	-59.75
Check	05/10/2013	2354	GENOA TWP-DPW FUND	Maintenance/billing fees May2013	-9,300.17
Check	05/10/2013	2355	GENOA TWP-DPW FUND	costs pd by DPW Reimburse Per Ken Palk	-1,260.53
Check	05/10/2013	2356	PVS NOLWOOD CHEMICALS, INC	Inv 403170-391304 05/07/2013	-997.00
Grand Total					-18,025.30

11:35 AM

#592 OAK POINTE WATER/SEWER FUND**Payment of Bills**

April 30 through May 14, 2013

<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
Check	05/08/2013	2676	DTE ENERGY	Billing from 03-27- 04-25-2013	-8,267.35
Check	05/08/2013	2677	CONSUMERS ENERGY	Billing from 03/31/2013-04/30/2013	-523.30
Check	05/10/2013	2678	ALEXANDER CHEMICAL CORPORATION	Inv SLS 10004431	-1,302.71
Check	05/10/2013	2679	BRIGHTON ANALYTICAL, LLC	Inv #'s 0413-80739 & 0513-80793	-268.00
Check	05/10/2013	2680	DUBOIS COOPER ASSOCIATES INCORP	Inv 154990 & 1549000-dated 04/19/2013	-25,245.60
Check	05/10/2013	2681	GENOA TWP UTILITY FUND	Maintenance/Billing May 2013	-35,986.34
Check	05/10/2013	2682	GENOA TWP UTILITY FUND	Reimburse DPW audit 05/04/2013	-1,729.15
Check	05/10/2013	2683	KENNEDY INDUSTRIES INC.	Inv 545502-04/24/2013	-275.00
Check	05/10/2013	2684	PVS Nolwood Chemicals, Inc	Inv 403171 & Credit Memo 111019	-962.00
Check	05/10/2013	2685	USA Bluebook	Inv 947875-04/30/2013	-936.44
Check	05/10/2013	2686	G/O SEWER AUTHORITY	Monthly Container Rental 03/01/2013-03/3	-59.75
Check	05/14/2013	2687	AT&T	Acct 810-227-4883 026 3 05/07/2013	-56.11
Grand Total					-75,611.75

GENOA CHARTER TOWNSHIP
Board of Trustees
Regular Meeting
May 6, 2013

MINUTES

Call to Order: Supervisor McCririe called the regular meeting of the Genoa Charter Township Board to order at 6:30 p.m. The Pledge of Allegiance was then said. The following persons were present constituting a quorum for the transaction of business: Gary McCririe, Paulette Skolarus, Robin Hunt, Linda Rowell, Jim Mortensen, Todd Smith and Jean Ledford. Also present were Township Manager Michael Archinal, Assistant Township Manager Kelly VanMarter and approximately 20 persons in the audience:

Call to the Public*: McCririe indicated that any discussions regarding Timberview would be addressed during the regular agenda.

Edwin Bishop addressed the Board. He resides on Nixon Road. He is concerned about traffic on Nixon Road after the interchange is installed. He believes the proposed 10' wide bike lane is excessive.

Nora Naccarato of the F & N Center addressed the Board. A proposed tenant appeared with her. They are attempting to work out tap fees, but the tap fees of \$63,400.00 are excessive in her opinion. She is asking that the tap fees be reduced by 50%. Supervisor McCririe suggested that she work with staff to review the fees, but that it would be unfair to reduce the fees for her and would result in people requesting refunds of paid tap fees. Hunt suggested that spreading the tap fee is one method of dealing with the issue. Ms. Naccarato indicated she had discussed this with staff, but she is seeking a reduction. Ms. VanMarter indicated she has exhausted the remedies from a staff perspective. McCririe suggested that a proposal be submitted to the Board and that they continue to work with staff.

Carl Hauss of FTAG Investments addressed the Board regarding the citizen survey results. He is familiar with people who have not filled out the survey and he has advised them to approach the Board members with their concerns. He believes that the original Nixon Road build out plan should be considered due to future budget constraints that may arise.

Approval of Consent Agenda:

Moved by Ledford and support by Mortensen approve items one and two listed under the Consent Agenda as presented. **Motion carried unanimously.**

1. Payment of Bills.

2. Request to approve minutes: April 15, 2013.

Approval of Regular Agenda

Moved by Skolarus and supported by Hunt to approve for action all items listed under the regular agenda with the tabling of item number 6 (Resolution 2 with reference to Timberview). Motion carried unanimously.

3. Request for approval of an amendment to the Personnel Policy concerning Equal Employment Opportunity and Harassment.

Linda Rowell expressed some concerns regarding this amendment. The Township Attorney was not present. **Motion by Hunt and supported by Smith to table this request until the township attorney reviews the amendment. Motion carried unanimously.**

4. Request for consideration of an application for fireworks as submitted by Calvin Heckman Jr. at 4127 Clifford, Genoa Township on June 29, 2013 with a backup date of July 6, 2013.

Moved by Smith and supported by Skolarus to grant this application request contingent upon the receipt of pertinent documents required from the petitioner for the fireworks display. Motion carried unanimously.

5. Request for approval of Resolution No. 1 [to proceed with the project and direct preparation of the plans and costs estimates] for the Timberview Road Improvement Project Special Assessment District.

Skolarus - Petitions from 65% of residents were received and reviewed. The first estimate was \$75,000 for a topical fix. The second was for \$300,000 which included removing the existing road and resolving the sand/gravel problem beneath the pavement. After boring samples were taken, it was determined that the black top is 5.5" rather than 3.5", which would result in greater costs. An engineer must review the project again to determine the feasibility of the project moving forward. According to the L.C.R.C. cracking will resurface at one inch per year.

Tammy Dunaski, a resident, addressed the Board. She was expecting that 2-3" of the existing road was going to be re-milled. She proposes that plan continue and that the remaining portion be repaved. The curbs can be filled in and sprayed. Supervisor McCririe indicated that experience shows the cracks would appear in the same places.

Moved by Mortensen and supported by Skolarus to approve the resolution. The motion carried by roll call vote as follows: Ayes: Ledford, Smith, Hunt, Rowell, Mortensen, Skolarus and McCririe. Nay – None.

Tabled - 6. Request for approval of Resolution No. 2 [to approve the project, scheduling the first hearing and directing the issuance of statutory notices] for the Timberview Road Improvement Project Special Assessment District.

7. Request to direct staff to pursue actions necessary to achieve full membership in SELCRA.

James Mortensen indicated he has no trouble with getting involved with SELCRA. He is, however, concerned about entanglements with other governmental entities if it relates to any debts. He would ask that any contract be carefully reviewed. There was discussion about any liabilities involved in joining. Todd Smith would also like to know about voting rights. The issue of millage and to whom it would be assessed against was discussed.

Moved by Ledford and supported by Smith to pursue an agreement with SELCRA. Motion carried unanimously.

8. Request for approval of a proposal from Superior Play for equipment and installation of playground equipment at a cost of \$91,568.89.

Skolarus believes this is a good project. The township needs to support Parks & Recreation (bike paths, soccer fields, etc.) as well as roads. We have a diverse community and we need to take care of the children and not spend every general fund dollar on roads. Rowell - I do not feel comfortable adopting this proposal when the Township is asking for a road millage from the residents. She thinks the playground, as it currently exists, is very nice and is sufficient. She indicated the current budget does not cover this. McCririe indicated it would require a budget amendment. Hunt believes that the final phase of the project should be completed. Archinal reminded the Board that this is an economic development tool. A capital improvement project is forthcoming.

Moved by Skolarus and supported by Ledford to approve the proposal. Motion carried with Rowell opposed.

9. Request to award a contract for the Red Oaks Subdivision Paving Special Assessment District to Cadillac Asphalt in the amount of \$757,169.

Moved by Smith and supported by Hunt to award the contract to Cadillac Asphalt for the repaving of Red Oaks subdivision. Motion carried unanimously.

10. Discussion regarding citizen survey results.

Kelly VanMarter presented the results of the citizens' survey with 472 responses with comments. The community suggested that the rural character of the township be maintained and the campus concept was agreeable. Residents wanted more hard surface roads throughout the community.

11. Request for approval of a Road Improvement Master Plan proposal from Hubbell, Roth and Clark at a cost of \$33,000.

Mortensen feels it's premature to do this until the State of Michigan decides what it is going to do about funding. He also feels this should wait until after the Latson Road interchange is complete when traffic patterns can be reviewed.

Moved by Smith and support by Rowell to approve the Road Improvement Master Plan as requested by the Administrative Committee. **Motion carried with Mortensen opposed.**

Correspondence: A letter will be sent to the Mountain/Mystic subdivision residents concerning the reconstruction of their roads and asking for comment from homeowners with reference to the proposals.

The regular meeting of the Genoa Charter Township Board was adjourned at 7:45 p.m.



Paulette A. Skolarus
Genoa Township Clerk *sms*

(press/argus 05/10/13)

MEMORANDUM

TO: Township Board
FROM: Michael Archinal *ma*
DATE: 5/16/13
RE: EEO/Harassment Policy

This item was tabled at the last meeting to verify that the Township Attorney had completed a review. The policy change has been reviewed and is acceptable. Please find attached a clean version of the amendment.

Please consider the following action:

Moved by _____, supported by _____, to approve the Equal Employment Opportunity and Harassment personnel manual changes as recommended.

Current Version and Tracked Recommendations:

Equal Employment Opportunity

It is the policy of the Township Board to provide equal employment opportunities to qualified persons without regard to race, color, sex, pregnancy, age, religion, national origin, citizenship status, disability, genetic information, veteran status, marital status, height, weight, sexual orientation or handicap that is unrelated to the individual's ability to perform the duties of a particular job or position, or any other status or criterion which is prohibited by federal, state and local law or ordinance. This policy applies to recruiting, hiring, discharge, compensation, benefits, LOA's, promotions, discipline, performance reviews, and all other terms conditions and privileges of employment.

Harassment

Consistent with the Township's policy of equal employment opportunity, harassment in the workplace based on a person's race, color, sex, pregnancy, age, religion, national origin, citizenship status, disability, genetic information, veteran status, marital status, height, weight, sexual orientation or handicap will not be tolerated. As used herein, the term "sexual harassment" includes unwelcome sexual advances, requests for sexual favors, or other verbal or physical conduct of a sexual nature. Sexual harassment will be regarded as a violation of this policy when:

1. submission to such conduct is made a direct or indirect condition of employment; or
2. submission to or rejection of such conduct is used as a factor in employment-related decisions such as promotion, performance evaluation, pay adjustment, discipline, work assignment, etc.; or
3. Such conduct interferes with employment or creates an intimidating, offensive, or hostile working environment.

If you believe you have been the victim of sexual, racial or other form of unlawful harassment, you should immediately come forward and express your complaint to your supervisor and/or your Human Resources Representative. If your complaint is against your supervisor, you should take your complaint to the next level of management and/or Human Resources. An investigation will be promptly conducted following a standardized procedure. Although it is impossible to conduct an investigation and maintain complete confidentiality, anyone reporting or investigating a complaint for sexual harassment shall do so in as confidential a manner as possible. The person making the complaint will be informed of the conclusions reached from the investigation. If harassment is found to have occurred, appropriate action will be taken to prevent further harassment.

No person will suffer adverse action for making a complaint in good faith or for taking part in the investigation of a complaint. It is the policy of the Township to prohibit retaliation against anyone who makes a complaint in good faith or who takes part in the investigation. Nothing set forth in this policy is intended to modify the employment at-will relationship in any way.

GENOA TOWNSHIP - FUTURE DEV. PARKS & REC. FUND #270
 BUDGET TO ACTUAL REPORT
 BUDGETS FOR THE YEARS ENDING 3/31/2013 & 3/31/2014
 Amended: 05/20/2013

ACCOUNT#	ACCOUNT DESCRIPTION	ACTUAL FOR THE YEAR ENDING 3/31/2011	ACTUAL FOR THE YEAR ENDING 3/31/2012	BUDGET FOR THE YEAR ENDING 3/31/2013	2/8/2013 ACTUAL FOR THE YEAR ENDING 3/31/2013	2/1-2012 AMENDMENT FOR THE YEAR ENDING 3/31/2013	PROPOSED BUDGET FOR THE YEAR ENDING 3/31/2014
REVENUES							
000-664-000	INTEREST INCOME	1,409	2,152	1,000	1,710	2,000	2,000
000-699-000	OPERATING TRANS IN FROM GF	350,000	725,000	379,000	200,000	379,000	250,000
	RENT			500	5,700	7,500	7,500
000-699-001	MISC REVENUE	0			29,851	30,000	500
	TOTAL REVENUES	351,409	727,152	380,500	237,261	418,500	260,000
EXPENDITURES							
330-696-000	ATHLETIC FIELD - LIGHTING, PLAY GR EQ	200,470		55,000	60,465	60,500	92,000
330-697-000	BIKE PATH ADDITIONS	146,426		225,000	49,392	50,000	225,000
536-972-200	I-96 INTERCHANGE WALK	0		455,000	26,737	80,000	375,000
	LAND PURCHASE			230,000	205,879	206,000	250,000
	HOUSE EXPENSES			1,500	4,656	5,000	5,000
330-695-000	MISCELLANEOUS	790	1,090		2,047	2,500	1,500
	TOTAL EXPENDITURES	347,686	1,090	966,500	349,176	404,000	948,500
	NET REVENUES/EXPENDITURES	3,723	726,062	(586,000)	(111,915)	14,500	(688,500)
	BEGINNING FUND BALANCE	385,687	389,410	703,227	703,227	703,227	767,727
	ENDING FUND BALANCE	389,410	703,227	117,227	591,312	717,727	79,227


parks and rec 270 march 2014



2911 Dorr Road
Brighton, MI 48116
810.227.5225
810.227.3420 fax
genoa.org

MEMORANDUM

TO: Honorable Board of Trustees
FROM: Kelly VanMarter, Assistant Township Manager
DATE: May 16, 2013
RE: Mt. Brighton Site Plan

MANAGER'S REVIEW: 

I have reviewed the site plan and environmental impact assessment for the proposed site improvements and grading for Mt. Brighton. This project was recommended for approval by the Planning Commission on May 13, 2013. My recommendation is as follows:

Environmental Impact Assessment: I recommend **approval** of the impact assessment subject to adding a statement indicating that future development on the site may require bonding or construction of pathway and/or other future improvements.

Site Plan: I recommend **approval** of the site plan subject to the following:

1. The outdoor lighting is legal non-conforming and the petitioner will not increase illumination. If changes to site lighting are proposed, the applicant will work with Township staff to shield the lighting as required by ordinance.
2. Any approvals required by governmental agencies including the Livingston County Drain Commission will be obtained.

Should you have any questions concerning this matter, please do not hesitate to contact me.

Sincerely,



Kelly VanMarter
Assistant Township Manager/Community Development Director

SUPERVISOR

Gary T. McCririe

CLERK

Paulette A. Skolarus

TREASURER

Robin L. Hunt

MANAGER

Michael C. Archinal

TRUSTEES

H. James Mortensen

Jean W. Ledford

Todd W. Smith

Steven Wildman

**GENOA CHARTER TOWNSHIP
PLANNING COMMISSION
PUBLIC HEARING
MAY 13, 2013
6:30 P.M.**

MINUTES

CALL TO ORDER: The meeting of the Genoa Charter Township Planning Commission was called to order at 6:31 p.m. Present were Barbara Figurski, Lauren Brookins, James Mortensen, Chairman Doug Brown, Diana Lowe and John McManus. Also present were Assistant Township Manager, Kelly VanMarter and Brian Borden of LSL.

PLEDGE OF ALLEGIANCE: The Pledge of Allegiance was recited.

APPROVAL OF AGENDA: The agenda was approved pursuant to a **Motion** by Barbara Figurski and support by James Mortensen. **Motion carried unanimously.**

CALL TO THE PUBLIC: *(Note: The Board reserves the right to not begin new business after 10:00 p.m.)*

OPEN PUBLIC HEARING #1... Review of a site plan application, environmental impact assessment and site plan for proposed site improvements for Mt. Brighton, located on the Southeast corner of Challis and Bauer Road in Section 25, petitioned by Tim Beck on behalf of VR US Holdings, Inc.

Tim Beck addressed the Planning Commission. He gave a brief overview of the plans and what they hope to have accomplished this summer. There will be changes in the lifts and tows. The snow making plan was also shown to the Planning Commission. The grading plans were discussed. The petitioner is working with Lindhout and Associates. They have met with officials from the Building Department.

Gary Markstrom indicated that they have responded to all review letters.

The wooden fence along Bauer Road will be replaced. It will be the same height as the existing fence. The new fence will be on the property line as it should be. Bill Kennedy of Vail Resorts addressed the Planning Commission. Snow will probably not be made by the snow tower that exists near Bauer Road. The new snow guns are quieter and sit lower to the ground.

Brian Borden recapped his review letter. He discussed the proposed light plan. The fixtures are consistent with what is permitted by the ordinance. There are approximately 154 lighting fixtures currently on the mountain. The petitioner is hopeful that no additional lighting will be needed. The petitioner agrees to obtain any permits necessary for the project.

Planning Commission disposition of petition

- A. Recommendation of Environmental Impact Assessment.
- B. Disposition of Site Plan.

Motion by Barbara Figurski to recommend to the Township Board approval of the environmental impact assessment subject to future development on the site may require bonding or construction of pathway and/or other future improvements.

Support by Diana Lowe. **Motion carried unanimously.**

Motion by James Mortensen that the site plan be approved, subject to:

1. Township approval of the environmental impact assessment as modified this evening by the Planning Commission;
2. The outdoor lighting at Mt. Brighton is grandfathered and the petitioner will not increase illumination and will work with staff regarding shielding neighbors from any changes in the lighting;
3. Any approvals required by governmental agencies including the Livingston County Drain Commission will be obtained.

Support by Barbara Figurski. **Motion carried unanimously.**

Administrative Business:

- *Staff report*
- *Approval of April 8th, 2013 Planning Commission meeting minutes. **Motion** by Barbara Figurski and support by John McManus to adopt the minutes. **Motion carried unanimously.***
- *Member Discussion*
- *Adjournment. Motion by Barbara Figurski and support by Lauren Brookins to adjourn. **Motion carried unanimously.** Meeting adjourned at 7:30 p.m.*

GENOA TOWNSHIP
APR 09 2013

**GENOA TOWNSHIP
APPLICATION FOR SITE PLAN REVIEW**

TO THE GENOA TOWNSHIP PLANNING COMMISSION AND TOWNSHIP BOARD:

APPLICANT NAME & ADDRESS*: VR US Holdings, Inc.

OWNER'S NAME & ADDRESS: P.O. Box 959 Avon, CO 81620

SITE ADDRESS: 4141 Bauer Road Brighton PARCEL #(s): 4711-25-100-003

APPLICANT PHONE: (970).754.2564 OWNER PHONE: (same as applicant)

LOCATION AND BRIEF DESCRIPTION OF SITE: Site is the location of the Mt Brighton Ski facility. Southeast corner of Challis and Bauer Roads.

BRIEF STATEMENT OF PROPOSED USE: Use will continue as a ski and golf facility. Proposed activities include regrading a portion of the slopes and replacement of snow making and lift systems.

THE FOLLOWING BUILDINGS ARE PROPOSED: Only building expansion anticipated is to the snow making structure on the eastern side of the hill. A 30 by 40 foot maximum addition is included in the concept. Final design is yet to be completed.

I HEREBY CERTIFY THAT ALL INFORMATION AND DATA ATTACHED TO AND MADE PART OF THIS APPLICATION IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: Tim Beck VP VR US HOLDINGS, INC

ADDRESS: P.O. Box 959 AVON, CO 81620

* If applicant is not the owner, a letter of Authorization from Property Owner is needed.

Contact Information - Review Letters and Correspondence shall be forwarded to the following:
1) Gary Markstrom of Tetra Tech at (517).484.8140
Name Business Affiliation Fax No.

FEE EXCEEDANCE AGREEMENT
As stated on the site plan review fee schedule, all site plans are allocated two (2) consultant reviews and one (1) Planning Commission meeting. If additional reviews or meetings are necessary, the applicant will be required to pay the actual incurred costs for the additional reviews. If applicable, additional review fee payment will be required concurrent with submittal to the Township Board. By signing below, applicant indicates agreement and full understanding of this policy.
SIGNATURE: Timothy H. Beck DATE: 4.10.13
PRINT NAME: TIMOTHY H. BECK PHONE: 970-376-2249
ADDRESS: VR US HOLDINGS, INC. P.O. BOX 959 AVON, CO 81620



LSL Planning, Inc.

Community Planning Consultants

May 3, 2013

Planning Commission
Genoa Township
2911 Dorr Road
Brighton, Michigan 48116

Attention:	Kelly Van Marter, AICP Assistant Township Manager and Planning Director
Subject:	Mt. Brighton Site Improvements – Site Plan Review #2
Location:	4141 Bauer Road – southeast corner of Bauer and Challis Roads
Zoning:	PRF Public and Recreational Facilities District

Dear Commissioners:

At the Township’s request, we have reviewed the revised site plan (dated 4/29/13) proposing various improvements to the 220-acre Mt. Brighton ski and golf complex. The site is located at the southeast corner of Bauer and Challis Roads and is within the PRF zoning district.

Our initial review letter (dated 4/22/13) suggested that additional information/detail on a number of site plan related items could be sought by the Commission to ensure compliance with current standards. Specifically, a lack of parking calculations, a bike path, details for waste receptacles and details for new signage were identified. In response, the revised submittal notes that the focus of this phase of the project is on the ski hill and that future projects are being prepared to address additional site elements.

Our review is based upon the applicable provisions of the Genoa Township Zoning Ordinance. Given the scope of the project and the fact that most of our initial comments do not apply at this time, we have condensed our review considerably and have excluded most of the conventional review standards.

A. Summary

1. If deemed necessary, the Commission has the authority to require a photometric plan.
2. If favorable action is considered, we suggest the Commission include a condition that the applicant must obtain necessary permits from the County Drain Commission.

B. Proposal/Process/Background

The applicant requests site plan review and approval for improvements to the existing Mt. Brighton outdoor recreation area. The overall project includes re-grading of ski hills, improvements to existing chair lifts and snow making systems, modifications to existing tow ropes and filling of a man-made pond.

Table 6.02 of the Zoning Ordinance lists golf courses with ancillary uses and ski facilities as separate special land uses in the PRF District. Since the project does not entail an expansion of either special land use, the proposal has been deemed “minor” in accordance with Section 19.06. Accordingly, the project does not warrant reconsideration of the specific use requirements listed in Section 6.02.02.

Procedurally, the Planning Commission has review and approval authority over the site plan, while the Township Board has final approval authority over the Environmental Impact Assessment following a recommendation from the Planning Commission.



Aerial view of site and surroundings (looking north)

C. Site Plan Review

1. **Dimensional Requirements.** Section 6.03 provides dimensional standards for projects in the PRF District. Front yard setbacks are based on adjacent zoning, while side and rear setbacks are dependent upon the nature of the use.

In this instance, the minimum front yard setback is 40 feet, while trails and athletic fields must be at least 50 feet from a side or rear lot line. The majority of the improvements are internal to the site and located well outside of the required setbacks.

As noted in our prior review, the modifications to tow ropes #1 and #2 encroach into the 40-foot front yard setback along Bauer Road. In response to this comment, the applicant has noted that this is an existing condition and the proposal will not result in a further encroachment into the setback. The applicant has also proposed improved screening in this area to better mitigate the encroachment.

2. **Exterior Lighting.** The submittal notes that existing lighting placed on lifts and/or poles will be relocated in accordance with the improvements proposed. However, it is also stated that the applicant may need to install additional pole mounted fixtures.

As requested in our initial review, the applicant has provided fixture details on Sheet G001, which identify shielded fixtures. If deemed necessary, the Commission has the authority to require a photometric plan as part of site review in accordance with Section 12.03.07.

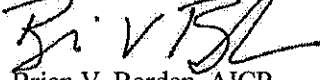
3. **Impact Assessment.** The submittal includes a revised Impact Assessment (dated 4/29/13). In summary, the Assessment notes that the project is not anticipated to adversely impact natural features, public services/utilities, surrounding land uses or traffic.

As noted in the revised submittal, the MDEQ has indicated that no permit is required for the activities proposed, including the filling of a portion of a pond on the golf course. The applicant does note, however, that this item will be included in their permit to the County Drain Commission. If the Commission considers approval of the request, we suggest this item be included as a condition.

Should you have any questions concerning this matter, please do not hesitate to contact our office. I can be reached by phone at (248) 586-0505, or via e-mail at borden@lsplanning.com.

Sincerely,

LSL PLANNING, INC.

A handwritten signature in black ink, appearing to read "B. V. Borden", written over the printed name.

Brian V. Borden, AICP
Senior Planner



HUBBELL, ROTH & CLARK, INC
Consulting Engineers

Principals
George E. Hubbell
Thomas E. Biehl
Walter H. Alix
Peter T. Roth
Michael D. Waring
Keith D. McCormack
Nancy M.D. Faught
Daniel W. Mitchell

Senior Associates
Gary J. Tressel
Kenneth A. Melchior
Randal L. Ford
Timothy H. Sullivan

Associates
Jonathan E. Booth
Michael C. MacDonald
Marvin A. Olane
William R. Davis
Jesse B. VanDeCreek
Robert F. DeFrain
Marshall J. Grazioli
Thomas D. LaCross
Dennis J. Benoit
James F. Burton
Jane M. Graham
Donna M. Martin
Charles E. Hert

May 6, 2013

Genoa Township
2911 Dorr Road
Brighton, MI 48116

Attn: Ms. Kelly VanMarter, Planning Director

Re: Site Plan Review – 2nd Review
Mount Brighton Site Improvements
Section 25, Genoa Township

HRC Job No. 20130289.02

Dear Ms. VanMarter:

As requested, Hubbell, Roth & Clark (HRC) has reviewed the revised site plans submitted for the above project as prepared by Tetra Tech (dated April 29, 2013). Our review also included the applicants updated Environmental Impact Assessment (dated April 29, 2013) and the Tetra Tech response letter (dated April 29, 2013).

We find the items in our previous site plan review letter have been satisfactorily addressed. Therefore, based on the engineering relate aspects, this office would recommend that this project receive site plan approval from the Township.

If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.

Jonathan Booth, P.E.

JB/jb

pc: Genoa Twp: K. Poppy
TT: G. Markstrom
HRC; N. Faught, M. Darga, file

Y:\201302\20130289\06_Corr\Design\2013 05 06 2nd site plan review ltr final.docx

105 W. Grand River
Howell, Michigan 48843
Telephone 517 552 9199 Fax 517 552 6099
www.hrc-engr.com

Engineering. Environment. Excellence.



Brighton Area Fire Department

615 W. Grand River

Brighton, Michigan 48116

810-229-6640 Fax: 810-229-1619

May 3, 2013

Kelly VanMarter
Genoa Township
2911 Dorr Road
Brighton, MI 48116

RE: Mt. Brighton Ski Resort
4141 Bauer Rd.
Site Plan Review

Dear Kelly:

The Brighton Area Fire Department has reviewed the above mentioned site plan. The plans were received for review on May 1, 2013. The project is based on an existing ski area. The plan review is based on the requirements of the International Fire Code (IFC) 2012 edition. This submittal provides a response letter from Tetra Tech on behalf of the applicant addressing the previous items noted by the Fire Department in the April 24, 2013 letter.

Additional comments will be given during the building plan review process (specific to the building plans and occupancy). If you have any questions about the comments on this plan review please contact me at 810-229-6640.

Cordially,

A handwritten signature in black ink, appearing to read "M. O'Brian".

Michael O'Brian
Fire Chief

**MOUNT BRIGHTON SITE IMPROVEMENTS
VAIL RESORT DEVELOPMENT
4141 BAUER ROAD, BRIGHTON MI. 48116**

ENVIRONMENTAL IMPACT ASSESSMENT

**Dated: April 8, 2013
REVISED April 29, 2013**

A. Name(s) and address(es) of person(s) responsible for preparation:

Gary J. Markstrom, P.E.
Tetra Tech
401 S. Washington Square, Suite 100
Lansing, MI 48933

B. Map(s) and written description/analysis of the project site: The Mt. Brighton ski area located in the Charter Township of Genoa consist of 220 acres of ski terrain and an 18 hole golf course. The site is located on the south east corner of Challis and Bauer Roads adjacent to the railroad tracks. The owner of the facility proposes to undertake the following improvements to the existing conditions at the area. The improvements are described below with locations depicted on the site plan:

- 1. Replacement of the Blue and Green double chair lifts with a new fixed grip quad lift.** The work will entail the removal of two double chair lifts and the installation of a more efficient and a modern 4 passenger fixed grip lift. The line equipment of the removed lifts including the towers, terminals on the Blue and Green lifts will be recycled as scrap metal. The foundations will be reduced in height to below grade or buried, disturbed ground will be re-vegetated leaving no exposed foundations. Minimal grading will be required to accommodate the bottom and top terminals and a new electrical service will be installed.
- 2. Rope tows 1 and 2 (beginners runs)** will be removed and the terrain under the tows will be re-graded to accommodate an 8% grade suitable for beginner skiers. Currently the terrain serving these rope tows is not ideal for beginners given the excessive grades. Material from the existing dirt pile located in the main parking lot will be used to assist in achieving the 8% grade. It is anticipated, based on the grading plan, that we will need approximately 3,500 cubic yards of imported material to complete the grading. To service this terrain a carpet lift will be installed. The carpet is a modern conveyor, similar to an escalator without the stairs. Skiers stand on a carpet conveyor belt with their skis on to reach the summit of the trail. It has no foundations, and sits on pedestals requiring minimal earth disturbance. Any disturbed areas will adhere to best management practices (BMP's) for erosion control protection and be re-vegetated as shown on the site plan.

The proposed improvements at the beginner slope will also include the removal of the existing rope tows #1 and #2 apparatus that currently is located within the setback of the parcel. The fence currently angles out towards the road way to enclose these structures. These will be removed and the fence will be relocated to the property line. Based on the LATA ?? ALTA survey the existing fence is constructed within the Bauer Road right of way. The replacement fence will be constructed of wood to shield the slope from the vision of the neighboring parcels. Furthermore the new "carpet" lift is a significantly lower profile system that will be screened by the fence. The top of the new lift will terminate in the 40 foot side yard setback and therefore the petitioner is requesting consideration from the planning commission for this system given the screening being provided and the existing use taking place

3. **Wire rope tow #4** will be removed to accommodate the proposed trail improvements as described in #5 below and as shown on the site plan.
4. **Rope tows #5 and #6** will be relocated as shown on the plan.
5. **Trail grading and reshaping** on the terrain to the NE of the Black lift will take place as shown using suitable fill brought to the site and existing material stockpiled onsite in the parking lot. The projected amount of fill required to reshape the trail is approximately 26,000 cubic yards. It is anticipated that the fill will be trucked to a staging area in the parking lot and then used to reshape the trail. This trail work will provide a more suitable run for the terrain park features and the boarder cross course. The total area disturbed will be approximately 8.5 acres. The trail work and stock pile of fill will be protected with necessary BMP's and re-vegetated as shown on the site plan.
6. **The Orange chair**, which has not run for several years, will be removed and foundations will be reduced in height to below grade or buried. Any disturbed areas will be re-vegetated with no exposed foundations. The current towers have lights on them and are used for lighting the run. We will be replacing the lift tower lighting with standard wooden telephone poles or galvanized/painted steel poles and lights serviced by buried electrical connectivity.
7. **The Existing Silver chair** will be relocated and shortened to improve the skiing terrain in this area. Currently the chair towers run up the main ski run which reduces the amount of useable skiing terrain. The existing towers and terminal will be reused and new foundations will be required. The old foundations will be reduced in height or buried to below grade and re-vegetated where disturbed leaving no exposed foundations. Isolated and minimal grading to accommodate the terminals will be required. Any exposed or disturbed soil will be re-vegetated. Given the new lift alignment we need to relocate the four tee boxes on golf hole #7.

8. **The Yellow triple chair** will be replaced with either a reconditioned or new fixed grip triple or quad chair in the same alignment. The base terminal will be raised with fill material given that it currently exists in a depressed area that collects water and makes it difficult for skiers to access the loading area. The top terminal will be graded to accommodate the new upper terminal. Any disturbed ground will be re-vegetated as detailed on the site plan.
9. **The man made pond** near the base of the Yellow lift will be filled in part as shown on the attached plan to accommodate an increased and improved finish area that is safer and more user friendly for the race arena. Any permitting required by the MDEQ will be obtained as part of the construction phase.
10. **Storm water improvements** in the base area in front of the lodge will be upgraded with a new buried pump to accommodate storm water runoff from the hill. If determined necessary, due to deteriorated condition, we will replace the out fall line from the pumps to the existing snowmaking pond near the maintenance facility.
11. **Snowmaking** – currently the area has 53 acres of snowmaking which has low pressures, poor distribution of water, poor pipe line conditions, outdated snow gun inventory and uses compressed air which is inefficient and expensive to operate. The plan is to replace the existing system pipes with new ductile iron lines and replace as needed the direct buried electrical lines. The new upgrades will provide the ability to use new and more efficient fan gun technology resulting in improved and more efficient operations leading to better early season coverage and quicker recovery given weather events. In addition the old pump station located at the snowmaking pond by the maintenance building will be removed from service. To accommodate the newly renovated system a new pump house by the large pond near hole #7 will be constructed.
12. **New signage at entrances** –All signage for the site will be submitted to the Township for review as a separate submittal.

Signage improvements are not proposed with this phase of the site improvements.

13. **The lighting** at Brighton for the skiing covers all 53 acres and in many cases is either located on existing lifts or individual poles. In some areas such as on the racing hill there is a need to relocate light poles that conflict with the racing terrain and a need to add additional poles to gain coverage of shadowed spots. Given that we are relocating lifts we will continue to have lighting on the lifts. However, we may need to relocate existing poles or add poles based upon the final layout and minimum light coverage requirements. The design will be very similar to existing conditions with the final design a field fit utilizing lights on lift towers and wooden telephone poles or galvanized/painted steel poles with buried electrical service.

Currently there are approximately 154 1000 watt lamps on the hill. The majority of these lights are affixed to the existing ski lifts. Several lifts are being either relocated and/or replaced with newer and more reliable systems and with this the lighting coverage may need to be adjusted to eliminate shadow areas. Light fixtures similar to the existing system will be added on wood poles or galvanized/painted steel poles to mitigate any shadow areas that currently exist or are created by the removal/relocation of the existing lift structures. A detail of a proposed fixture is included on the site plan. The precise location of the individual lights is being reviewed by a lighting consultant with expertise in ski facilities. It is anticipated that the overall brightness and appearance of the hill will be unchanged as the total number of fixtures should remain consistent.

- C. Impact on natural features:** The grading and lift improvements on the ski hill will not impact any natural features. However the proposed filling of the golf course pond at the base of the hill is an impact to an existing man made water feature, which was added at the time of the golf course construction. This work will be coordinated through the MDEQ and LCDC offices for appropriate permitting. There will be no impact on any other natural features. Any construction of the new snowmaking building will maintain the 24' natural barrier around the existing ponds/wetland.

The MDEQ has issued their finding that the golf course pond is not a regulated wetland and as such will not be required to obtain a permit through their agency. This finding is included in the attached email from the MDEQ representative. The work in the pond area will be included in the soil erosion and sedimentation control permit application to the LCDC office for the entire site.

- D. Impact on storm water management:** Soil erosion control measures shall be incorporated as shown and noted on the plan. Existing storm water drainage patterns will be preserved. No additional impervious area is anticipated in this project and therefore no additional detention or sediment control systems are anticipated.
- E. Impact on surrounding land used:** The current use is for a ski and golf facility that has served the region for decades. The facility has snow making equipment which is being maintained along with the slope lighting. Given the historic use of the site and the anticipation to continue this use, no additional impacts on surrounding land uses are anticipated. Construction and grading activities will create dust. Care will be taken to minimize the dust generation by employing water trucks during the grading operation.
- F. Impact on public facilities and services:** Since the improvements proposed are related to the enhancement and maintenance of existing facilities and not an expansion of services there will be no resultant impact on public facilities or services.
- G. Impact on public utilities:** The site is served with on-site septic and well systems; therefore, there will be no impact on public utilities from the proposed activities.

The applicant has reviewed the proposed improvements included in this site plan with the City of Brighton to determine any impacts to the City's municipal well field and well head protection zone. Since the improvements are predominantly grading related and further that the snowmaking improvements anticipated have peak demand periods opposite that of the City, there was no impact anticipated with the City's facilities or WHPP area. Future discussions with the City of Brighton will be held as future phases of the site improvements are planned to assure the protection of the regional public drinking water resource.

H. Storage and handling of any hazardous materials: There will be no storage or handling of hazardous material.

I. Impact on Traffic and Pedestrians: The site is immediately adjacent to Challis and Bauer Roads. The proposed work is grading and replacement of existing systems and therefore will not impact any adjacent roadways. The site is served by two existing driveways that are proposed to be maintained. At this time, there is no expansion of services at the site therefore no traffic study is needed.

The Township's shared use pathway system runs along the western side of Bauer Road to the intersection with Challis Road. No pathway currently exists along Challis Road in Genoa or the City of Brighton. Township policy is for new developments to continue these pathways along the road frontages of their developments. Vail Resorts believes that a shared use path connecting Bauer and the City of Brighton along Challis Road is practical and beneficial to the area. However given the anticipated roadway improvements to the intersection of Bauer and Challis (LCRC round about) it is pre mature to plan and implement this link. Further the nature of this portion of the site improvements is limited to necessary improvements on the hill. It is anticipated that a future site plan submittals will be necessary for potential building and parking improvements and as part of a subsequent submittal the pathways issue should be addressed.

J. Special Provisions: General: There are no special provisions proposed.

MT. BRIGHTON SKI RESORT PROJECT IMPROVEMENT PLAN SITE PLAN

401 S. WASHINGTON SQUARE, SUITE 100
LANSING, MICHIGAN 48933
PHONE: (517) 396-3930 FAX (517) 484-8140



TETRA TECH

www.tetra-tech.com

PROJECT LOCATION:

GENOA TOWNSHIP, MICHIGAN

CLIENT INFORMATION:

VR US HOLDINGS, INC.
C/O VAIL RESORTS DEVELOPMENT COMPANY
P.O. BOX 959 AVON, CO. 81620

Tt PROJECT No.:

200-23503-13001

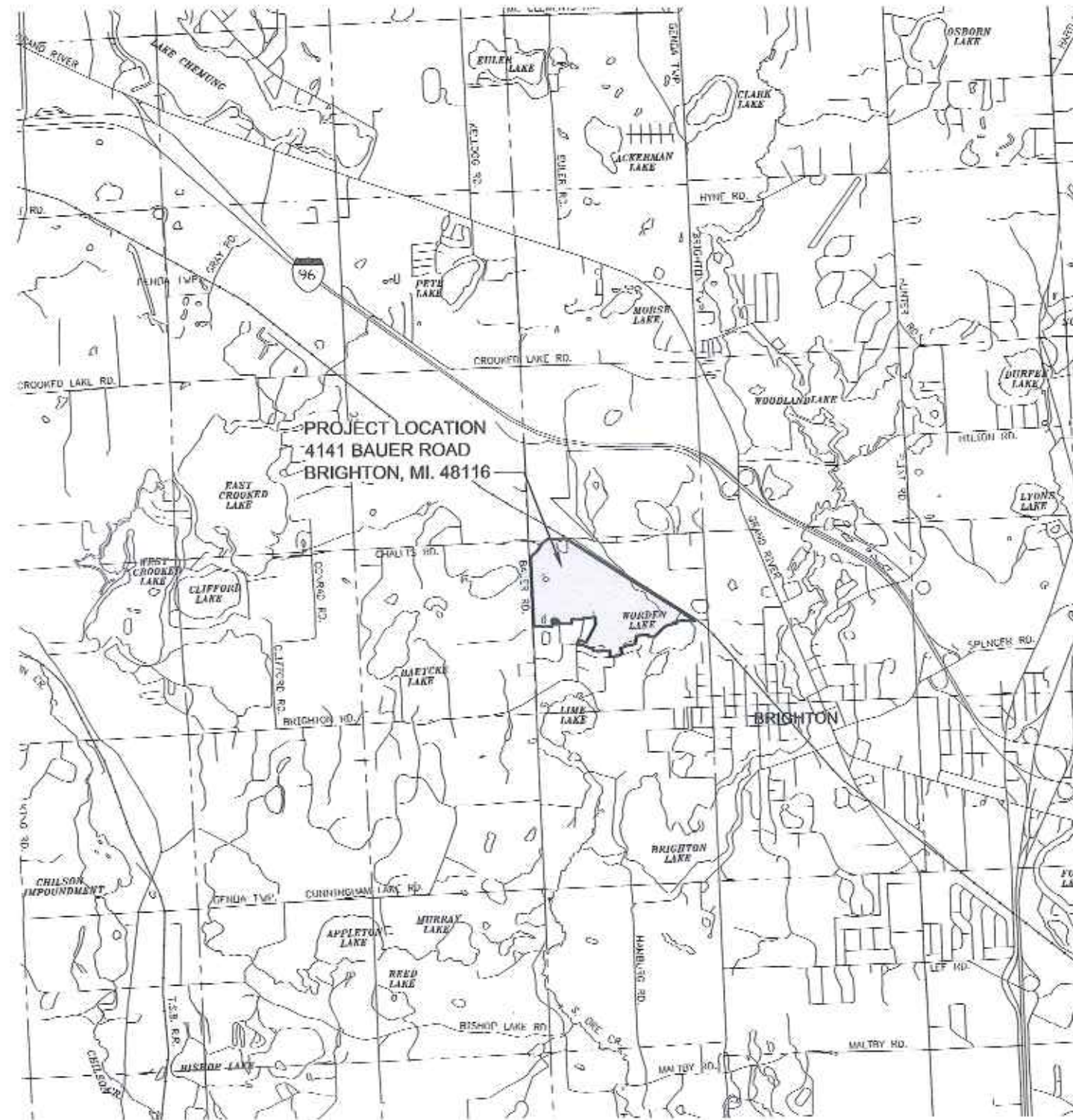
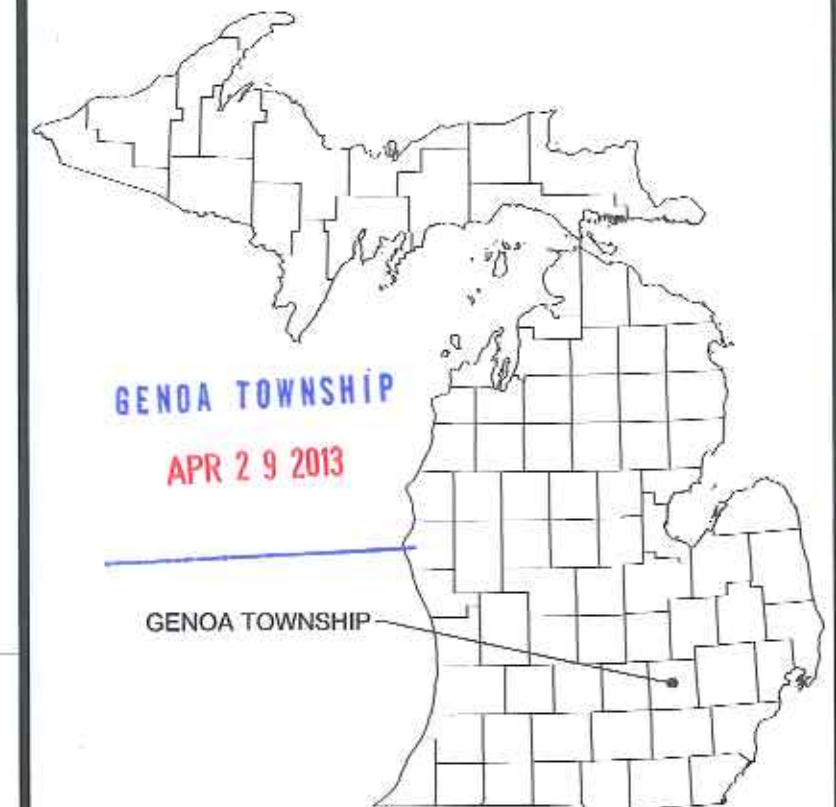
CLIENT PROJECT No.:

PROJECT DESCRIPTION / NOTES:

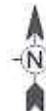
ISSUED:

4-10-13 TWP SITE PLAN SUBMITTAL
4-29-13 TWP SITE PLAN SUBMITTAL - REVIEW

VICINITY MAP:



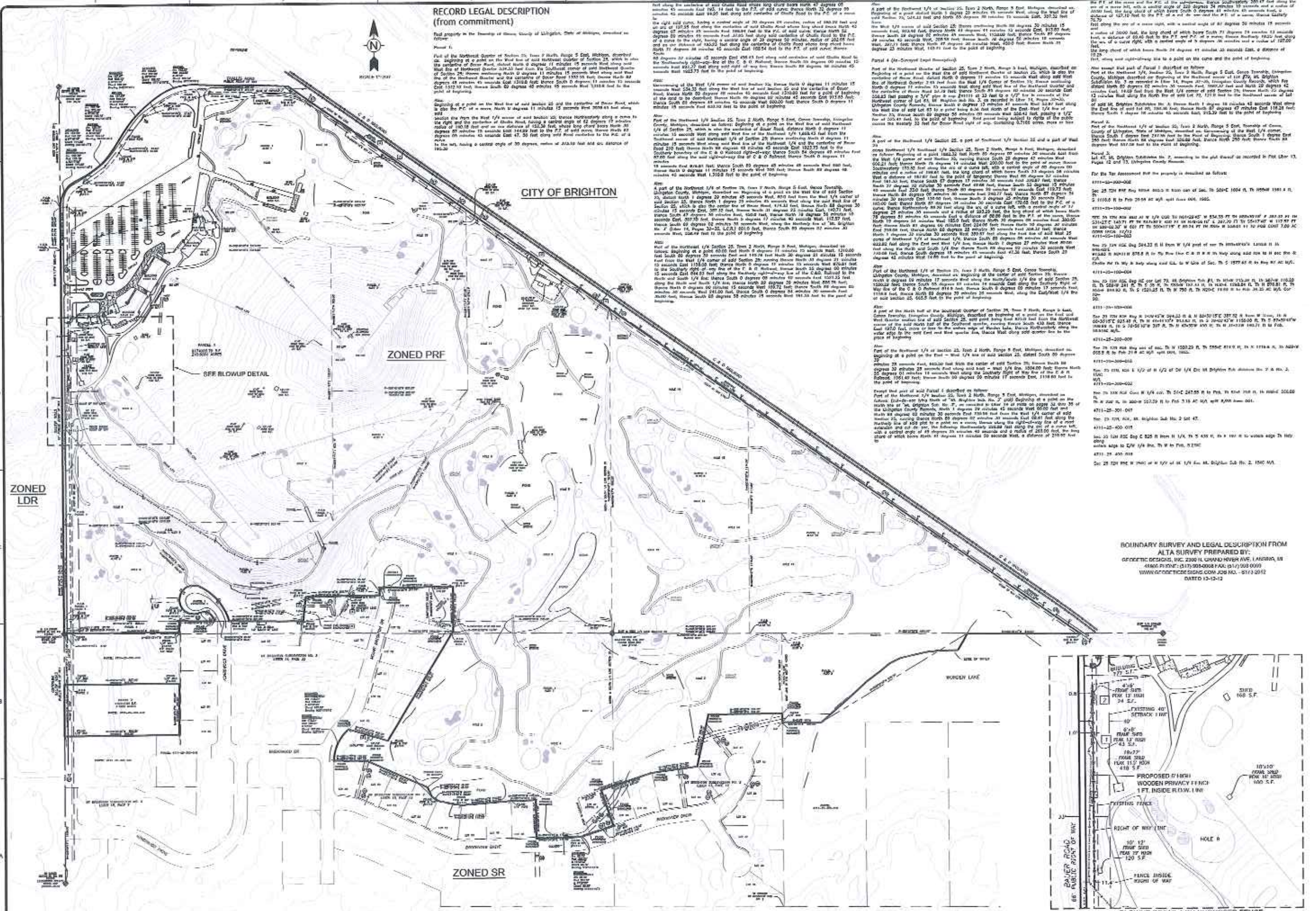
LOCATION MAP
SCALE: 1"=400'



SHEET INDEX	
SHEET NUMBER	SHEET TITLE
G000	COVER SHEET
G001	GENERAL NOTES AND DETAILS
C101	LEGAL DESCRIPTION AND EXISTING CONDITIONS PLAN
C102	PROPOSED SKI LIFT PLAN
C103	PROPOSED SNOW MAKING SYSTEM
C104	GRADING AND SESC PLAN



4/28/2017 6:07:40 PM - P:\PROJECTS\2016\2016-08-26-307-CADSWHETLEVIC 17.DWG - JCL, LINNICK, TODD




RECORD LEGAL DESCRIPTION (from commitment)

Subplot 1:
Part of the Southeast 1/4 of Section 26, Township 2 North, Range 3 East, County of Washtenaw, Michigan, described as follows:
Beginning at a point on the West line of said Section 26 and the centerline of Deane Road, which is the P.C. of a curve with a radius of 275.30 feet and a central angle of 20 degrees 00 minutes 00 seconds, north 89 degrees 40 minutes 00 seconds east 44.50 feet; then along the line of said curve, north 78 degrees 43 minutes 19 seconds east 133.10 feet to the P.C. of a curve with a radius of 105.10 feet and a central angle of 10 degrees 00 minutes 00 seconds, north 58 degrees 43 minutes 19 seconds east 105.10 feet; then along the line of said curve, north 16 degrees 43 minutes 19 seconds east 105.10 feet to the P.C. of a curve with a radius of 275.30 feet and a central angle of 20 degrees 00 minutes 00 seconds, north 89 degrees 40 minutes 00 seconds east 44.50 feet to the point of beginning.

Subplot 2:
Part of the Southeast 1/4 of Section 26, Township 2 North, Range 3 East, County of Washtenaw, Michigan, described as follows:
Beginning at a point on the West line of said Section 26 and the centerline of Deane Road, which is the P.C. of a curve with a radius of 275.30 feet and a central angle of 20 degrees 00 minutes 00 seconds, north 89 degrees 40 minutes 00 seconds east 44.50 feet; then along the line of said curve, north 78 degrees 43 minutes 19 seconds east 133.10 feet to the P.C. of a curve with a radius of 105.10 feet and a central angle of 10 degrees 00 minutes 00 seconds, north 58 degrees 43 minutes 19 seconds east 105.10 feet; then along the line of said curve, north 16 degrees 43 minutes 19 seconds east 105.10 feet to the P.C. of a curve with a radius of 275.30 feet and a central angle of 20 degrees 00 minutes 00 seconds, north 89 degrees 40 minutes 00 seconds east 44.50 feet to the point of beginning.



BOUNDARY SURVEY AND LEGAL DESCRIPTION FROM
ALTA SURVEY PREPARED BY:
GEOGRAPHIC DESIGN, INC. 2280 N. GRAND AVENUE, LANSING, MI
48208 PHONE: (313) 993-0001 FAX: (313) 993-0009
WWW.GEOGRAPHICDESIGN.COM JOB NO. - 0113 2012
DATE 12-12-12

	401 SOUTH WASHINGTON SQUARE SUITE 100 ANN ARBOR, MI 48106 PHONE: (817) 329-2323 FAX: (817) 484-3100
	BY: 4-10-15 TWP SUBMITTAL 4-29-15 TWP SUBMITTAL - REVIEW
	MARK DATE DESCRIPTION

BY:	DATE:	DESCRIPTION:
		4-10-15 TWP SUBMITTAL
		4-29-15 TWP SUBMITTAL - REVIEW

PROJECT NO.	200-12710-10000-WR-2
DESIGNED BY:	JAH
DRAWN BY:	JAH
CHECKED BY:	JAH
C101	

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Project No. 200-12710-10000-WR-2
Designed By: JAH
Drawn By: JAH
Checked By: JAH
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Scale: 1 inch = 10 feet

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TETRA TECH
 www.tetra-tech.com
 401 SOUTH WASHINGTON SQUARE SUITE 400
 WASHINGTON, DC 20004
 PHONE (877) 3-3333 FAX (877) 444-1140

MARK	DATE	DESCRIPTION	BY
	4/16/13	TWP SUBMITTAL	
	4/25/13	TWP SUBMITTAL - REVIEW	

VR JS HOLDINGS, INC. - WAL DEVELOPMENT COMPANY
 MT. BRIGHTON SKI RESORT
 PROJECT IMPROVEMENT PLAN
PROPOSED SKI LIFT PLAN

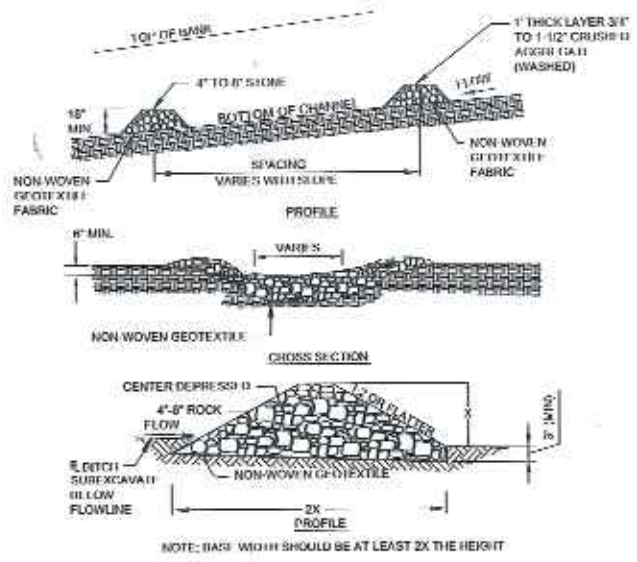
Project No.: 209-17/19-3386-06-2
 Designed By:
 Drawn By: TAH
 Checked By: GJM

C102

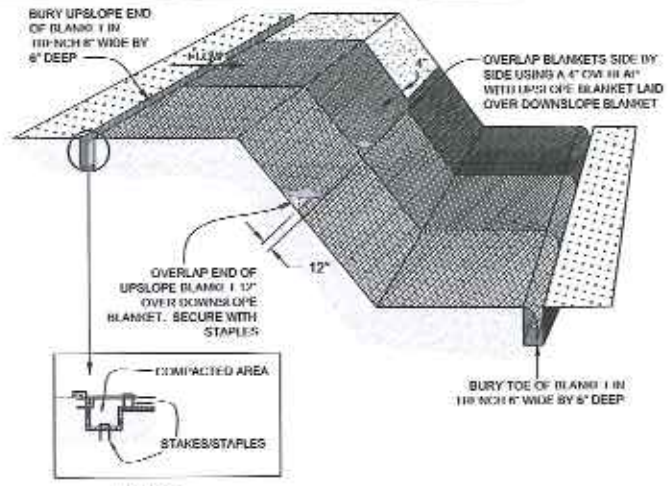
Copyright Tetra Tech
 See Appendix 1.indd

GENERAL NOTES

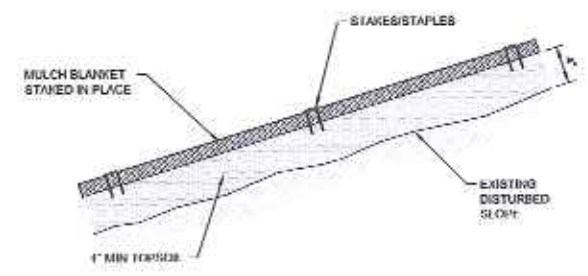
- UNDERGROUND UTILITIES AS SHOWN HEREIN WERE TAKEN FROM EXISTING PLANS AND ARE APPROXIMATE LOCATIONS ONLY. UNDERGROUND UTILITY LOCATIONS HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL UNDERGROUND UTILITIES.
- BENCHMARKS ARE BASED ON NAVD 80 DATUM.
- CONTRACTOR SHALL NOT USE ANY PAVED ROADWAYS FOR TRACK EQUIPMENT OPERATION OR STORAGE.
- THE CONTRACTOR AND SUBCONTRACTOR SHALL MAKE A PERSONAL INVESTIGATION OF THE SITE AND EXISTING SURFACE AND SUBSURFACE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE TO ACCURATELY REPRESENT WITH CONDITIONS OF THE WORK AREA. THE CONTRACTOR IS ADVISED TO OBTAIN ALL NECESSARY PERMITS AND TO OBTAIN ALL NECESSARY INFORMATION FROM THE LOCAL GOVERNMENT. NECESSARY BY THE CONTRACTOR AND IF NOT SPECIFICALLY CALLED OUT IN THE CONTRACT DOCUMENTS, WILL BE INCIDENTAL TO THE COST OF INSTALLATION.
- ALL EXISTING SITE CONDITIONS SHOWN ON TETRA TECH PLANS ARE FOR REFERENCE ONLY.
- ALL EARTHWORK FILL SHALL BE GRADED AND COMPACTED IN LAYERS NOT EXCEEDING 12 INCHES TO A MINIMUM 95% DRY DENSITY.
- CONTRACTOR SHALL CONTROL DUST GENERATION BY APPROPRIATE MEANS SUCH AS A WATER TRUCK ON SITE.
- FILLING OF POND DOES NOT REQUIRE A MDEQ PERMIT PURSUANT TO CORRESPONDING TMDL PERMIT DATED 4-18-13.
- GRADING AND FILLING OF THE POND SHALL BE PERFORMED IN ACCORDANCE WITH LCDC AND MDEQ PERMITS AS APPLICABLE.



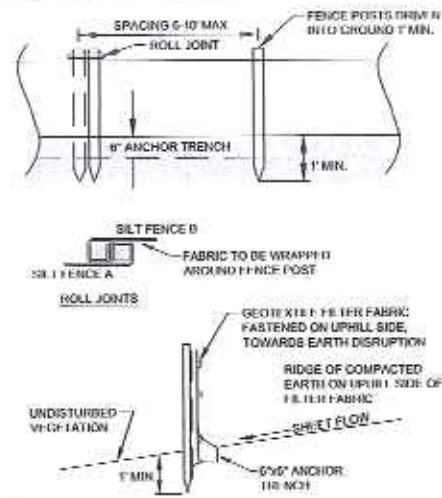
CHECK DAM
NO SCALE



MULCH BLANKET
NO SCALE

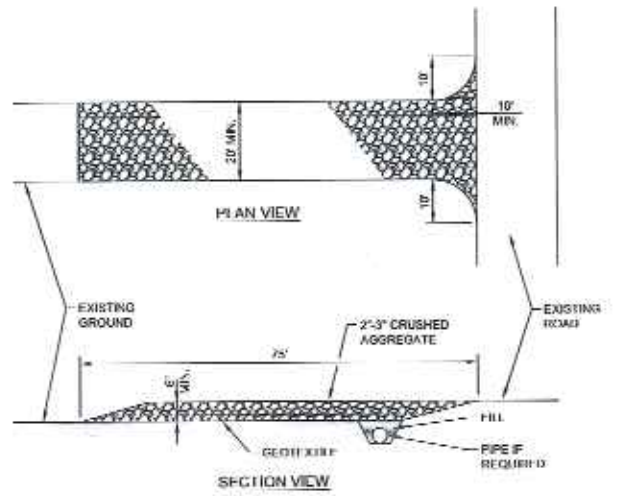


RESTORATION DETAIL
NO SCALE



SILT FENCE
SCALE: NONE

MAINTENANCE NOTE:
SILT FENCE IS TO BE INSPECTED DAILY BY CONTRACTOR AND WEEKLY BY CERTIFIED STORM WATER MANAGEMENT OPERATOR. IF REPAIRS OR REPLACEMENT ARE NECESSARY, THEY SHALL BE PERFORMED IMMEDIATELY. THE SILT FENCE SHOULD BE TRENCHED IN, BACKFILLED, AND STAPLED OR STAKED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. IF SEDIMENT ACCUMULATION IS 1/2 THE HEIGHT OF THE FENCE, CONTRACTOR MAY HAVE TO REMOVE, REPLACE, RE-TRENCH, OR RE-ANCHOR SILT FENCE IF IT FAILS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RE-INSTALL IF ANY PORTION OF THE FENCING IS DAMAGED BY CONSTRUCTION MACHINERY.



TRACKING MAT DETAIL
SCALE: NONE

Light-Structure Green™

A complete sports lighting system designed and manufactured from available to pole-top in 5 Easy Pieces™.

Unmatched performance... for your budget, for the environment.

- Full operating costs in full
- Robust 3000 lumens output
- Lifetime system monitoring and remote control
- Includes guaranteed 5-year warranty

5 Easy Pieces™

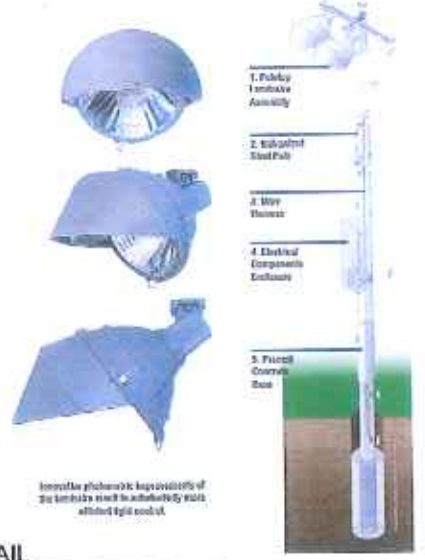
- Complete system from foundation to pole-top
- Factory wired, wired and tested
- Fast installation (no electrical)
- Compact and convenient package

Warranty

Master's Quality 30™ — 25-year product warranty and warranty program.

Includes 25 years of best-in-class lighting equipment operation, including parts, labor, and programming.

Request more information



Intuitive photo-voltaic technology of the luminaire meets the advanced needs of the modern sports field.

LIGHTING DETAIL
SCALE: NONE

TETRA TECH
www.tetra-tech.com
401 SOUTH WASHINGTON SQUARE SUITE 100
LANSING, MI 48204-4833
PHONE: (877) 375-8272 FAX: (313) 524-8140

MARK	DATE	DESCRIPTION
4-15-13	4-15-13	TWP SUBMITTAL
4-25-13	4-25-13	TWP SUBMITTAL - REVIEW

VR US HO-DINGS INC. - VAL DEVELOPMENT COMPANY
MT. BRIGHTON SKI RESORT
PROJECT IMPROVEMENT PLAN
GENERAL NOTES AND DETAILS

Project No: 200-03504-1-0011
Designed By: TAJ
Drawn By: GJM
Checked By: GJM

G001

4/28/2013 11:28:05 AM - P:\15123001\200-23000-13001\CAD\DWG\FILES\C103-1M.DWG - SHANK, JASON



LEGEND

- NEW WATER PIPING
- EXISTING WATER PIPING TO BE RETAINED
- EXISTING WATER PIPING TO BE ABANDONED
- PROPOSED ELECTRICAL CIRCUIT
- SNOW FAN GUN TYPE DISTAL

SCALE: 1"=100'

TETRA TECH
www.tetra-tech.com
401 SOUTH WASHINGTON SQUARE, SUITE 100
LANSING, MICHIGAN 48206
PHONE: 577.316.3332 FAX: (577) 316-4140

DATE	DESCRIPTION	BY
4-10-13	TYP SUBMITTAL	
4-29-13	TYP SUBMITTAL - REVIEW	

VR US HOLDINGS, INC. - VAIL DEVELOPMENT COMPANY
MT. BRIGHTON SKI RESORT
PROJECT IMPROVEMENT PLAN
PROPOSED SNOW MAKING SYSTEM

Project No: 200-23000-13001-502-2
Designed By: TAH
Drawn By: ISM
Checked By: ISM

C103
Copy to Tetra Tech
1/8" Maximum 1 inch

4/26/2013 11:31:19 AM - P:\BKH\25959500-25953-13001\CAD\SETTLE\B15C15E104.DWG - SHANK, JASON



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- GRADING LIMITS
- PROTECT LIMITS
- SILENT ZONE

SCALE: 1"=100'

TETRA TECH

401 SOUTH WASHINGTON SQUARE SUITE 102
LANSING, MICHIGAN 48933
PHONE: (877) 375-3832 FAX: (517) 744-6740

MARK	DATE	DESCRIPTION	BY
4-28-13	4-28-13	TAP SUBMITTAL	
4-28-13	4-28-13	TAP SUBMITTAL - REVISION	

VR US HOLDINGS, INC. - VAI DEVELOPMENT COMPANY:
MT. BRIGHTON SKI RESORT
PROJECT IMPROVEMENT PLAN
GRADING AND SECC PLAN

Project No.: 200-12718-10005-W-7
Designed By: TAH
Drawn By: GJM
Checked By: GJM


C104

Copyright: Tetra Tech

Bar Measures 1 inch

MEMORANDUM

TO: Township Board

FROM: Michael Archinal 

DATE: 5/16/13

RE: Timberview Special Assessment District

Please find attached an Engineer's Opinion of Probable Cost for the reconstruction of Timberview. You will recall that this item was tabled at the May 6, 2013 meeting:

5. Request for approval of Resolution No. 1 [to proceed with the project and direct preparation of the plans and costs estimates] for the Timberview Road Improvement Project Special Assessment District. Skolarus - Petitions from 65% of residents were received and reviewed. The first estimate was \$75,000 for a topical fix. The second was for \$300,000 which included removing the existing road and resolving the sand/gravel problem beneath the pavement. After boring samples were taken, it was determined that the black top is 5.5" rather than 3.5", which would result in greater costs. An engineer must review the project again to determine the feasibility of the project moving forward. According to the L.C.R.C. cracking will resurface at one inch per year.

Tammy Dunaski, a resident, addressed the Board. She was expecting that 2-3" of the existing road was going to be re-milled. She proposes that plan continue and that the remaining portion be repaved. The curbs can be filled in and sprayed. Supervisor McCririe indicated that experience shows the cracks would appear in the same places.

Moved by Mortensen and supported by Skolarus to approve the resolution. The motion carried by roll call vote as follows: Ayes: Ledford, Smith, Hunt, Rowell, Mortensen, Skolarus and McCririe. Nay - None.
GENOA CHARTER TOWNSHIP BOARD - Regular Meeting - May 6, 2013

3

Tabled - 6. Request for approval of Resolution No. 2 [to approve the project, scheduling the first hearing and directing the issuance of statutory notices] for the Timberview Road Improvement Project Special Assessment District.

The estimated total project cost is \$575,000. For the project to move forward new petitions would have to be circulated. There is a design alternative for crack leveling and microsurfacing or slurry coat for approximately \$75,000 that the residents may wish to consider. Please consider the following action:

Moved by _____, supported by _____, to not approve Resolution #2 Timberview Road Improvement Project Special Assessment District due to the Engineer's Opinion of Probable Cost exceeding the amount described on the petitions by more than 10%.

Conceptual Cost Estimate
 Timberview Paving SAD
 Genoa Township
 May 14, 2013

No.	Item	Qty	Unit Price	Cost
1	Cold Milling HMA, 1.5 inch	15,000 syd	\$1.75	\$26,250
2	Crack Repairs	4,050 ft	\$10	\$40,500
3	Dr Structure Cover, Adj	9 ea	\$1,000	\$9,000
4	Dr Structure Cover, Reconst	5 ft	\$500	\$2,500
5	HMA, 13A, 3 inch	2,700 ton	\$75	\$202,500
6	Wing/Curb	5,000 ft	\$6	\$30,000
7	Driveway Rem & Replace	55 ea	\$1,000	\$55,000
8	Mailbox, Relocate	46 ea	\$75	\$3,450
9	Greenbelt Restoration	7,000 syd	\$4	\$28,000
10	Audio Video Route Survey	1 LS	\$3,000	\$3,000
11	Maintaining Traffic	1 LS	\$10,000	\$10,000
12	SESC Allowance	1 LS	\$5,000	\$5,000
13	Mobilization	1 LS	\$20,000	\$20,000
Subtotal				\$435,200
Contingencies				\$43,520
Preliminary Engineering				\$34,000
Construction Engineering				\$62,280
Estimated total Project Cost				\$575,000

Notes:

1. No allowance has been included for subgrade undercutting, underdrains, wetlands or easements.
2. Shaded rows are based on items from LCRC's previous cost estimate.

Mountain, Mystic and Milroy Road Improvements

Q1 Please provide your address.

Answered: 62 Skipped: 0

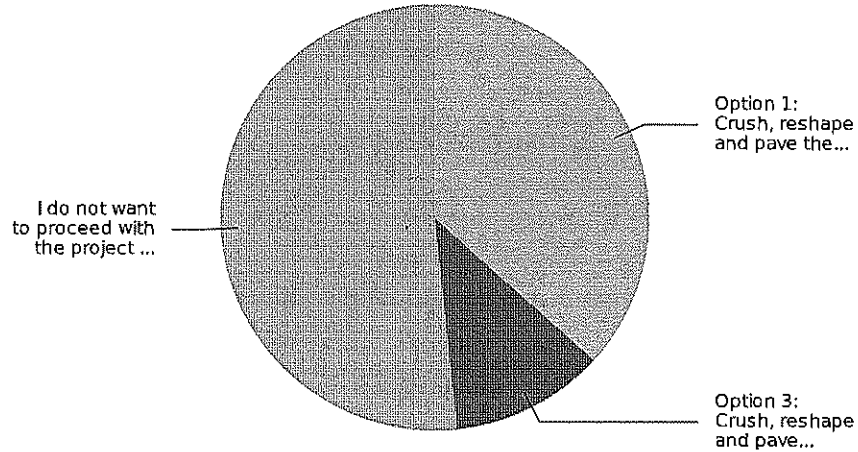
#	Responses	Date
1	5381 mystic lake dr	5/16/2013 2:07 PM
2	6253 Wagon Road	5/16/2013 1:58 PM
3	5325 Mountain Road	5/16/2013 1:07 PM
4	1520 S. 9th Ave.	5/16/2013 1:06 PM
5	5390 Mountain	5/16/2013 11:15 AM
6	5606 Mountain Road	5/16/2013 10:47 AM
7	5111 Mountain Road	5/16/2013 10:24 AM
8	5657 Mountain	5/16/2013 9:58 AM
9	5579 Mountain Road	5/16/2013 9:18 AM
10	5660 Mountain Rd	5/15/2013 9:49 PM
11	5488 Mystic Lake Drive	5/15/2013 4:38 PM
12	5999 Sundance Trail	5/15/2013 1:12 PM
13	5526 Mountain Road	5/15/2013 1:10 PM
14	5926 Sundance Trail	5/15/2013 11:21 AM
15	5227 Milroy Lane	5/15/2013 11:20 AM
16	5587 Mountain Road	5/15/2013 11:18 AM
17	5639 Mountain Road	5/15/2013 10:11 AM
18	6154 Sundance Trail	5/15/2013 8:02 AM
19	5207 mountain rd	5/14/2013 8:27 PM
20	6258 Wagon Road	5/14/2013 1:27 PM
21	6095 Sundance Trail	5/14/2013 1:25 PM
22	5510 Mountain Road	5/14/2013 1:24 PM
23	5265 Mystic lake drive	5/14/2013 11:41 AM
24	5190 Mystic Lake Drive	5/14/2013 10:30 AM
25	5300 Mystic Lake Drive	5/14/2013 10:28 AM
26	5570 Mountain Road	5/14/2013 10:24 AM
27	5698 Mountain Rd.	5/14/2013 9:39 AM
28	5452 Mystic Lake Drive	5/14/2013 9:15 AM
29	5455 Mountain Dr.	5/14/2013 8:57 AM
30	5815 ramblewood court	5/14/2013 6:34 AM
31	5159 mountain rd	5/13/2013 7:13 PM
32	5415 Mystic Lake Drive	5/13/2013 3:26 PM
33	5967 Sundance Trail	5/13/2013 1:48 PM
34	6106 Sundance Trail	5/13/2013 10:26 AM
35	5851 Ramblewood Court	5/13/2013 9:32 AM

Mountain, Mystic and Milroy Road Improvements

#	Responses	Date
36	6095 Sundance Trail, Brighton MI 48116	5/13/2013 9:09 AM
37	6138 sundance trail	5/12/2013 6:16 PM
38	5919 sundance trail, brighton, mi 48116	5/12/2013 4:50 PM
39	5421 mountain	5/12/2013 4:17 PM
40	6111 Sundance Trail	5/12/2013 3:02 PM
41	5152 Milroy Ln	5/12/2013 10:33 AM
42	5476 Mystic Lake Drive	5/12/2013 9:36 AM
43	5475 Mystic Lake drive	5/12/2013 8:36 AM
44	5300 Mystic Lake	5/11/2013 8:10 PM
45	5362 Brighton Rd.	5/11/2013 2:53 PM
46	5439 Mystic Lake Drive	5/11/2013 1:27 PM
47	5101 Milroy Lane	5/11/2013 1:08 PM
48	5499 Mystic Lake Drive	5/11/2013 12:03 PM
49	6109 Cunningham Lake Rd	5/11/2013 9:42 AM
50	5464 Mystic Lake Drive	5/11/2013 8:10 AM
51	5935 sundance trail	5/11/2013 8:10 AM
52	5607 mountain road	5/10/2013 10:09 PM
53	6031 sundance trail	5/10/2013 10:00 PM
54	5690 Mountain Road	5/10/2013 11:37 AM
55	5951 Sundance Trail	5/10/2013 10:44 AM
56	5571 Mountain Rd	5/10/2013 9:51 AM
57	6092 Sundance Trail	5/10/2013 8:29 AM
58	5427 Mystic Lake Drive	5/10/2013 6:45 AM
59	6221 Wagon Drive	5/9/2013 9:10 PM
60	5657 Mountain	5/9/2013 8:31 PM
61	5487 mystic lake dr	5/9/2013 5:51 PM
62	2911 Dorr Road Brighton MI	5/9/2013 1:50 PM

Q2 Which of the following do you support for the proposed Mountain Mystic Milroy road improvement project?

Answered: 60 Skipped: 2



Answer Choices	Responses	
Option 1: Crush, reshape and pave the entire subdivision. Total cost approximately \$1,507,087.50.	36.67%	22
Option 3: Crush, reshape and pave Sundance; mill and overlay all others. Total cost approximately \$1,046,555.00.	11.67%	7
I do not want to proceed with the project at this time.	51.67%	31
Total		60

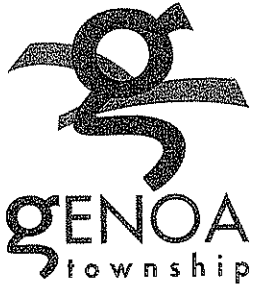
Q3 Please feel free to provide comments.

Answered: 39 Skipped: 23

#	Responses	Date
1	Any option needs to include fixing the drainage issues that are causing the underlying road problems.	5/16/2013 1:59 PM
2	[GENOA OFFICE]	5/16/2013 1:07 PM
3	[GENOA OFFICE]	5/16/2013 1:06 PM
4	We feel that the extra cost is well worth having 20+ years of low maintenance for the roads as opposed to having only 2 years before cracking begins and a more costly future maintenance. Road in front of our home on Mountain is going to need much more than 2 inches to repair the base of the road and the underground water problem (poor drainage and underground springs).	5/16/2013 11:26 AM
5	[GENOA OFFICE] Name written on postcard: Oldfords	5/16/2013 9:19 AM
6	I'm not sure the neighborhood understands that this project will cost them more annually if they wait. Are there any facts to provide that might show how this cost will increase on an annual basis?	5/15/2013 4:40 PM
7	[GENOA OFFICE]	5/15/2013 1:12 PM
8	[GENOA OFFICE]	5/15/2013 1:11 PM
9	[GENOA OFFICE]	5/15/2013 11:22 AM
10	[GENOA OFFICE]	5/15/2013 11:20 AM
11	[GENOA OFFICE] Included names and address: Gerald C. McNew, 5587 Mountain Rd., Brighton, MI 48116	5/15/2013 11:19 AM
12	I need more info before I commit.	5/14/2013 8:28 PM
13	[GENOA OFFICE]	5/14/2013 1:27 PM
14	[GENOA OFFICE]	5/14/2013 1:26 PM
15	[GENOA OFFICE]	5/14/2013 1:24 PM
16	reduce my property taxes by \$950.00 per year and I will vote for it. Lets put up a toll gate for a \$1.00 and those that use it the most and are complaining can pay for it. For the amount we use that road, At \$950 per year, I figure it will cost my family about \$1.75 per trip.	5/14/2013 11:53 AM
17	[GENOA OFFICE]	5/14/2013 10:30 AM
18	[GENOA OFFICE]	5/14/2013 10:28 AM
19	[GENOA OFFICE]	5/14/2013 10:25 AM
20	We support the project, it is really needed.	5/14/2013 9:40 AM
21	I left a voice mail for Michael Archinal last week that clearly described my concerns. I feel that the this project is having trouble garnering support when it has been a constantly shifting "target".....first we hear that concrete is the leading option, now it isn't even mentioned..(unless that is option 2, but whoever crafted the letter to residents did not describe it, only that it was not viable..) What happened to the 20 year repayment? THAT was option 1 last time any information was disseminated, and now it is NOT an option, nor even mentioned. The letter describes neighborhood response as tepid, yet I would challenge the township leaders as providing lukewarm and constanly shifting leadership. Hard to get behind a project when it is so unclearly defined. That being said, I'm in.	5/14/2013 6:40 AM
22	It is not worth it to us. Further, our neighbor is planning to knock down their home and build another one. The timing would not be good.	5/13/2013 3:29 PM
23	The sooner, the better.	5/13/2013 10:27 AM
24	It astonishes us that although we pay properties taxes, gas taxes and license registration taxes, only a small amount of the funds are available to fix our roads. We thought that was why the state and county were collecting them. Where does this money go if not to help the property owners fix their roads? We're sure you've heard this before, but, we are getting very weary of our "representatives" focusing what they think is "good" for us while our roads are crumbling. Fixing our roads would be good for us.	5/13/2013 9:47 AM

Mountain, Mystic and Milroy Road Improvements

#	Responses	Date
25	Thank you for allowing us to vote. Freedom isn't free.	5/13/2013 9:10 AM
26	with the possibility of new road funding changes i feel we should wait at this time.1.5 million is over the top.	5/12/2013 4:54 PM
27	My family would need to wait a few more years before we can afford another \$52-\$78 per month to pay for a road that the state/county/township should be required to maintain appropriately under law.	5/11/2013 8:12 PM
28	It seems that there is only a small amount of homeowners that are behind this project. It is very low on my priority list.	5/11/2013 2:56 PM
29	If we are going to repave, it makes sense to me to get the longer lasting option. I also believe that periodic maintenance, every few years, would result in a longer pavement life.	5/11/2013 1:34 PM
30	It would be nice to have a concrete option.	5/11/2013 12:04 PM
31	I live on Cunningham Lake Rd. I do not believe I should pay for improvements to roads I do not live on unless this same group of benefitting properties would help pay for future improvements to Cunningham Lake Rd.	5/11/2013 9:45 AM
32	One bidder ????? Who lives in Mystic & is a good friend of the person who has pushed the improvements for the subdivision and Genoa Twp at exhorbant expenses. Need more info, in detail.	5/11/2013 8:21 AM
33	It is my understanding that a request was made to provide an estimate using concrete. To this day I have yet to see this project using concrete. Until that price is provided I see no reason to continue with this project as outlined. Respectfully submitted.	5/10/2013 10:14 PM
34	[GENOA OFFICE] Barry Davis: Option 1 fine as well.	5/10/2013 11:37 AM
35	This road is already used like a race track. We've had our mailbox wiped out twice and witnessed a head-on accident in front of our house. We certainly don't want the forced slow down because of the pot holes replaced by a smooth surface allowing people to go even faster. We've had the sheriff's department parked in our drive pulling people over going 50mph plus. No thank you to the new road.	5/10/2013 8:36 AM
36	What is to prevent someone from voting multiple times using other addresses from the neighborhood? There does not appear to be a way to verify that all property owners of record support this alternative. Some co-owners may be split and therefore unable to support a petition.	5/9/2013 9:14 PM
37	We need to provide a concrete curb option that would provide better water flow and speed bump lawn protection.	5/9/2013 8:35 PM
38	I chose option 1 because it is more effective and would last longer.	5/9/2013 5:52 PM
39	This is a test	5/9/2013 1:50 PM



May 9, 2013

2911 Dorr Road
Brighton, MI 48116
810.227.5225
810.227.3420 fax
genoa.org

Sheriff Robert Bezotte
Livingston County Sheriff Department
150 S. Highlander Way
Howell, Michigan 48843

**Re: Deputy Loar
SWAP Program**

Dear Sheriff Bezotte,

I am writing to convey appreciation for the recent work of Deputy Loar and the attending crew of the SWAP Program. Within one week of suggesting roadside clean-up along Dorr Road, Deputy Loar and the crew were onsite. Afterward, the Deputy followed up with a phone call indicating that 12, 50-gallon bags of trash were retrieved. Further, while working in the vicinity they observed an additional need involving three additional hours of branch cutting and digging to clear a drain under the road to improve water flow in the area.

The Township is grateful for these efforts and we commend Deputy Loar for his prompt response, exceptional effort, and courteous follow up. Thank you so much for offering this service to help beautify and maintain our great community.

Very Sincerely,

Ms. Kelly VanMarter
Assistant Manager

SUPERVISOR

Gary T. McCririe

CLERK

Paulette A. Skolarus

TREASURER

Robin L. Hunt

TRUSTEES

H. James Mortensen

Jean W. Ledford

Todd W. Smith

Linda Rowell

MANAGER

Michael C. Archinal

cc: Genoa Township Board of Trustees
Livingston County Board of Commissioners

Memorandum

TO: Mike Archinal, Township Manager

FROM: Erin Daksiewicz, Special Project Engineer

DATE: May 14, 2013

RE: Residential Equivalent Unit (REU) Comparison for Local Municipalities

.....

REU Calculation

As requested, the attached table shows how REUs are calculated to assess tap fees for businesses by several local municipalities. Oceola Township and Marion Township are using the exact same REU formula table as Genoa Township. The City of Howell and the City of Brighton use a very similar table to calculate REUs.

Tap Fees

Municipality	Water	Sewer
Genoa	\$5,000/REU	\$5,500/REU
Marion	\$7,718/REU	\$9,000/REU
Oceola	\$7,000/REU	\$7,000/REU
City of Brighton	\$2,522/REU	\$6,478/REU
City of Howell	\$3,000/REU	\$3,000/REU
Hartland Township	\$4,727.21/REU	\$8,467.89/REU

2013 Genoa Township
REU Table Evaluation

User / Category	Genoa, Oceola, and Marion Township Unit Factor	City of Brighton Unit Factor	City of Howell Unit Factor
Auto Dealers	0.40 per 1,000 sq. ft.	1 per premise plus 0.15 per stall	1 per premise plus 0.15 per stall
Auto Repair/Collision - Body Shop	1.00 per shop plus 0.5 per 1,000 sq. ft.	1.00 per shop plus 0.5 per 1,000 sq. ft.	Not listed
Banks	0.25 per employee station	0.25 per employee station	Not listed
Banquet Hall	1.8 per 1,000 sq. ft.	Not listed	Not listed
Barber Shops	1.00 per shop plus 0.1 per chair	1.00 per shop plus 0.1 per chair	1.00 per shop plus 0.1 per chair
Bars	4.00 per 1,000 sq. ft.	2.00 per 1,000 sq. ft.	1.00 per 600 sq. ft.
Beauty Shops	1.00 per shop plus 0.15 per booth	1.00 per shop plus 0.15 per booth	1.00 per shop plus 0.15 per booth
Car Wash (production line without recycle)	10.00 per single production line	10.00 per single production line	10.00 per single production line
Car Wash (production line with recycle)	5.00 per single production line	5.00 per single production line	10.00 per single production line
Child Care Centers	1.00 per premise plus 0.05 per person	1.00 per premise plus 0.05 per person	Not listed
Churches	0.25 per 1,000 sq. ft. (minimum 1.0 unit)	0.25 per 1,000 sq. ft. (minimum 1.0 unit)	1.00 per 6000 sq. ft.
Cleaners (pressing facilities)	1.25 per press	1.00 per premise plus 0.5 per press	1.00 per 1000 sq. ft.
Clinics	0.50 per doctor (minimum 1.0 unit)	1.0 per premise plus 0.5 per exam room	1.0 per premise plus 0.5 per exam room
Convalescent Homes	1.0 per premise plus 0.5 per bedroom	1.0 per premise plus 0.5 per bedroom	Not listed
Country Clubs & Athletic Clubs	1.5 per 1,000 sq. ft.	1.5 per 1,000 sq. ft.	Not listed
Doctor's Office	1.0 per premise plus 0.5 per exam room	1.0 per premise plus 0.5 per exam room	Not listed
Drug Stores	0.40 per 1,000 sq. ft. (minimum 1.0 unit)	0.25 per 1,000 sq. ft. (minimum 1.0 unit)	1.0 per 2,000 sq. ft.
Factories (exclusive of industrial flow)	0.50 per 1,000 sq. ft.	0.50 per 1,000 sq. ft.	Not listed
Fraternal Organizations (members/rentals)	2.00 per hall plus bar, restaurant, etc.	2.00 per hall plus bar, restaurant, etc.	Not listed
Garden Center (nursery)	1.0 per premise plus 0.5 per employee	1.1 per 1,000 sf	Not listed
Government Office	0.40 per 1,000 sq. ft.	0.40 per 1,000 sq. ft.	Not listed
Grocery Stores & Markets	1.1 per 1,000 sq. ft.	1.1 per 1,000 sf	1.0 per 2,000 sq. ft.
Hotels & Motels (private baths)	0.25 per bedroom plus bar, restaurant, etc.	0.35 per bedroom	1.0 plus 0.25 per bed
Industrial Buildings (exclusive of wet process)	0.50 per 1,000 sq. ft.	0.50 per 1,000 sq. ft.	Not listed
Laundry (self service)	0.54 per washer	0.35 per washer	1.0 per 200 sq. ft.
Mobile Homes	1.00 per pad	1.00 per pad	Not listed
Multiple Family Residence	1.0 per dwelling unit	1.0 per dwelling unit	1.0 per dwelling unit
Office Building	0.40 per 1,000 sq. ft.	0.40 per 1,000 sq. ft.	1.0 per 4,000 sq. ft.
Pet Shops	1.10 per 1,000 sq. ft.	1.10 per 1,000 sq. ft.	Not listed
Print Shops	0.50 per 1,000 sq. ft.	0.50 per 1,000 sq. ft.	Not listed
Research & Testing Laboratories	0.75 per 1,000 sq. ft.	0.75 per 1,000 sq. ft.	Not listed
Restaurants (fast food)	10.00 per restaurant	7.0 per restaurant	1.0 per 600 sq. ft.
Restaurants (meals w/service & dishes)	2.50 per 1,000 sq. ft.	2.50 per 1,000 sq. ft.	1.0 per 600 sq. ft.
Restaurants (take out)	1.50 per 1,000 sq. ft.	1.50 per 1,000 sq. ft.	1.0 per 600 sq. ft.
Schools (w/o showers and/or pool)	1.0 per classroom	1.0 per classroom	1.0 plus 1.0 per classroom
Schools (with showers and/or pool)	1.50 per classroom	1.50 per classroom	Not listed
Service Station - with auto repair	1.00 per premise plus .15 per stall	1.00 per premise plus 0.15 per pump and stall	1.0 plus 0.15 per pump
Service Station - with mini mart	1.0 per premise plus .5 per 1,000 sq. ft. of building	1.0 per premise plus .5 per 1,000 sq. ft. of building	Not listed
Skating Rinks	0.40 per 1,000 sq. ft.	0.40 per 1,000 sq. ft.	Not listed
Sport Centers	0.05 per employee	1.0 per 1,000 sq. ft.	Not listed
Veterinary Facility	2.00 per veterinarian	2.00 per veterinarian	Not listed
Warehouse & Storage	0.10 per 1,000 sq. ft.	0.10 per 1,000 sq. ft.	Not listed

To Board 5/20/13

**State of Michigan
Department of Environmental Quality**

Water Resources Division
Lansing District Office
525 West Allegan Street, 4th Floor-North
Lansing, Michigan 48933-1502
517-373-7055

File Number 13-47-0021-P

Date: May 1, 2013

PUBLIC NOTICE

Genoa Charter Township, 2911 Dorr Road, Brighton, Michigan 48116 has applied to this office for a permit under authority of Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. The applicant proposes to place 377 cubic yards of fill in 0.9 acre of wetland along the west side of Nixon Road between Crooked Lake Road and Beck Road for the purpose of constructing a bike and pedestrian pathway. The fill for the 8-foot wide pathway within wetland will be 13-feet wide by 310-feet long. The project is located in T2N, R5E, Section 17, Genoa Township, Livingston County, Michigan, in accordance with plans attached to this notice.

THIS NOTICE IS NOT A PERMIT

The proposed project may also be regulated by one or more additional parts of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) that are administered by the Water Resources Division. The requirements of all applicable parts are considered in determining if it is in the public interest to issue a permit.

When a permit application is received requesting authorization to work in wetlands of the State of Michigan, pursuant to Part 303, Wetlands Protection, of the NREPA, the NREPA provides that the department submit copies for review to the department of public health, the city, village, or township, and the county where the project is to be located, the local soil conservation district, any local watershed council organized under Part 311, Local River Management, and the local port commission. Additional notification is provided to certain persons as required by statute or determined by the department.

A city, village, township, or county wanting to make comments on the proposed project shall furnish this office with its written comments no later than 45 days from the date of this notice. All other persons wishing to make comments shall furnish their written comments to this office within 20 days after the date of this notice. Written comments will be made part of the record and should reference the above file number. Objections must be factual, specific, and fully describe the reasons upon which any objection is founded. Unless a written request for a public hearing on this project is filed with the department within the 20-day public comment period, the department may make a decision on the permit application without a public hearing. The determination as to whether a permit will be issued or a public hearing held will be based on evaluation of all relevant factors defined in Sections 30106 and 30311, or permit criteria defined by other appropriate parts of the NREPA. These Sections address the effect of the proposed work on the public trust or interest including navigation, fish, wildlife, and water quality among other criteria. Public comments received will also be considered.

The entire copy of the public notice package may be viewed at the Department of Environmental Quality office (address listed on the top of this public notice), or on-line at <http://www.deq.state.mi.us/lwmpnh/>. To access the public notice package on-line, enter the file number on the left panel and view by clicking on the icon next to the public notice date. Comments may be sent electronically by clicking on the icon next to the comment period date. A hard copy of the public notice may be requested by calling the above number or by e-mailing deq-wrd-jointpermit@michigan.gov.

cc: Genoa Charter Township, applicant
Livingston County Clerk
Livingston County Drain Commissioner
Livingston County Health Department
Livingston Conservation District
Genoa Township Clerk

Mr. Jim Baker, DNR-Fisheries
Mr. Tim Payne, DNR-Wildlife
Adjacent Land Owners-See File
Klamminga and Roodvoets
Local Postmaster



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AGENCY USE	Previous USACE File Number
	USACE File Number

Date Received

MAR 25 2013
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DEQ File Number	13-47-0021-P
Fee received \$	\$500.00
	5122

Validate that all parts of this checklist are submitted with the application package. Fill out application and additional pages as needed.

- All items in Sections 1 through 9 are completed.
- Project-specific Sections 10 through 20 are completed.
- Dimensions, volumes, and calculations are provided for all impact areas.
- All information contained in the headings for the appropriate Sections (1-20) are addressed, and identified attachments (Ⓢ) are included.
- Map, site plan(s), cross sections; one set must be black and white on 8 1/2 by 11 inch paper; photographs.
- Application fee is attached.

1 Project Location Information For Latitude, Longitude, and TRS info anywhere in Michigan see www.mcgl.state.mi.us/watlands/

Project Address (road, if no street address) <i>Nixon Road</i>	Zip Code <i>48843</i>	Municipality (Township/Village/City) <i>Genoa Charter Township</i>	County <i>Livingston County</i>
Property Tax Identification Number(s) <i>4711-17-400-007</i>	Latitude <i>42.55 N</i>	Township/Range/Section (TRS) T <u>2</u> N or S; R <u>5</u> E or W; Sec <u>17</u> OR Private Claim # _____	
Subdivision/Plat and Lot Number	Longitude <i>- 83 87 W</i>		

2 Applicant and Agent Information

Owner/Applicant (individual or corporate name) <i>Genoa Charter Township</i>	Agent/Contractor (firm name and contact person) <i>Kamminga and Roodvoets</i>
Mailing Address <i>2911 Dorr Road</i>	Mailing Address <i>3435 Broadmoor Ave. SE</i>
City <i>Brighton</i> State <i>MI</i> Zip Code <i>48116</i>	City <i>Grand Rapids</i> State <i>MI</i> Zip Code <i>49512</i>
Contact Phone Number <i>110-227-5225</i> Fax <i>810-227-3420</i>	Contact Phone Number <i>616-949-0800</i> Fax <i>Klynaska@kandrinc.com</i>
Email <i>kelly@genoa.org</i>	E-mail <i>klynaska@kandr.com</i>
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Is the applicant the sole owner of all property on which this project is to be constructed and all property involved or impacted by this project? Ⓢ If no, attach letter(s) of authorization from all property owners including the owner of the disposal site.	
Property Owner's Name (If different from applicant) <i>LH & M LLC</i>	Mailing Address <i>12912 Leisure</i>
Contact Phone Number <i>586-854-5078</i>	City <i>Warren</i> State <i>MI</i> Zip Code <i>48008</i>

3 Project Description

Project Name <i>Nixon Road Pathway Project</i>	Preapplication File Number <i>- - -P</i>
Name of Water body	Date project staked/flagged <i>3/28/13</i>
The proposed project is on, within, or involves (check all that apply)	
<input type="checkbox"/> an inland lake (5 acres or more) <input type="checkbox"/> a Great Lake or Section 10 Waters <input type="checkbox"/> a pond (less than 5 acres) <input checked="" type="checkbox"/> a wetland <input type="checkbox"/> a stream, river, ditch or drain <input type="checkbox"/> a 100-year floodplain <input type="checkbox"/> a legally established County Drain <input type="checkbox"/> a dam Date Drain was established <input type="checkbox"/> a designated high risk erosion area <input type="checkbox"/> a channel/canal <input type="checkbox"/> a designated critical dune area <input type="checkbox"/> 500 feet of an existing water body <input type="checkbox"/> a designated environmental area	
Project Use <input type="checkbox"/> private <input type="checkbox"/> commercial <input type="checkbox"/> public/government <input type="checkbox"/> project is receiving federal/state transportation funds <input type="checkbox"/> Wetland Restoration <input type="checkbox"/> other	
Indicate the type of permit being applied for: <input type="checkbox"/> General Permit <input type="checkbox"/> Minor Project <input checked="" type="checkbox"/> Individual (All other projects.) Ⓢ See Appendix C.	

Written Summary of All Proposed Activities *Genoa Charter Township is looking to extend an 8' wide non-motorized path from the new Latson Road Interchange south to Three Fires Elementary School and Crooked Lake Road. The path is proposed to be located on the west side of Nixon Road north of the Crooked Lake Road. Construction of the path will minimally impact a small section of regulated wetland requiring approx. 377 cubic yards of fill*

Construction Sequence and Methods *Grade and fill the wetland to facilitate installation of the path as indicated on the plan. Install the path and then restore the area.*



4 Project Purpose, Use and Alternatives *Attach additional sheets as necessary.*

Describe the purpose of the project and its intended use; include any new development or expansion of an existing land use.
The pathway is intended to connect the residential and commercial development on the north side of I-96 to the school and future development on the south side of I-96. This project is part of an overall Township pathways plan to create connections and encourage non-motorized forms of transportation.

Describe the alternatives considered to avoid or minimize resource impacts. Include factors such as, but to limited to, alternative locations, project layout and design, and construction technologies. For utility crossings include alternative routes and construction methods.

The proposed non motorized pathway project is to be built along the west side of Nixon Rd from Crooked Lake Rd to south of Beck Rd. The pathway is proposed to be built in conjunction with a separate road improvement project that has separately been permitted to impact the subject wetland area. The proposed pathway is located as near as possible to the curb and gutter of the roadway as recommended by the 2012 AASHTO Guide for Development of Bicycle Facilities. The proposed pathway is located inside the area that has been permitted separately by the road improvement project, however, the construction of the pathway has required additional fill beyond what was necessitated by the road improvement project.

Alternative treatments that were considered was to build a boardwalk over the wetland area, while this alternative would eliminate much of the fill needing to be placed in the wetland, it would be detrimental to vegetation under the shadow of the boardwalk.

5 Locating Your Project Site *Attach a legible black and white map with a North arrow.*

Names of roads of closest intersection *Nixon Road and Crooked Lake Road*

Directions from main intersection to the project site, with distances from the best and nearest visible landmark and water body *600 feet north of the Nixon Road/Crooked Lake intersection.*

Description of buildings on the site (color; 1 or 2 story, other) <i>vacant agricultural land</i>	Description of adjacent landmarks or buildings (address; color; etc) <i>Three Fires Elementary School is located directly east of the site.</i>
--	--

How can your site be identified if there is no visible address? *The parcel is at the northwest corner of Nixon and Crooked Lake Roads.*

6 Easements and Other Permits

No Yes Is there a conservation easement or other easement, deed restriction, lease, or other encumbrance upon the property?
 ➔ If yes, attach a copy. Provide copies of court orders and legal lake levels if applicable.

List all other federal, interstate, state, or local agency authorizations including required assurances for Critical Dune Area projects.

Agency	Type of Approval	Number	Date Applied	Date approved /denied	Reason for denial
<i>Livingston County Road Commission</i>	<i>Right-of-Way Permit</i>		<i>3/18/13</i>	<i>pending</i>	

7 Compliance

If a permit is issued, when will the activity begin? (M/D/Y) *05/01/2013* Proposed completion date (M/D/Y) *11/15/13*

No Yes Has any construction activity commenced or been completed in a regulated area?
 ➔ If Yes, identify the portion(s) underway or completed on drawings or attach project specifications and give completion date(s).

No Yes Were the regulated activities conducted under a DEQ and/or USACE permit?
 ➔ If Yes, list the permit numbers

No Yes Are you aware of any unresolved violations of environmental law or litigation involving the property?
 ➔ If Yes, attach explanation.

8 Adjacent Property Owners *Provide current mailing addresses. Attach additional sheets/labels for long lists.*

<input type="checkbox"/> Established Lake Board	Contact Person	Mailing Address	City	State and Zip Code
<input type="checkbox"/> Lake Association				

List all adjacents. If you own the adjacent lot, provide the requested information for the first adjacent parcel that is not owned by you.

Property Owner's Name	Mailing Address	City	State and Zip Code
<i>See Attached Spreadsheet</i>			

9 Applicant's Certification

Read carefully before signing.

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ADJACENT PROPERTY OWNERS

Tax Code	Owner Name	Owner Address	Owner City	Owner State	Owner ZIP	Property Address	Property City	Property State	Property ZIP
11-17-400-015	FTAG INVESTMENTS LLC	22777 HARPER AVE	ST. CLAIR SHORES	MI	48080	0 CROOKED LAKE RD.	HOWELL	MI	48843
11-16-300-005	HOWELL PUBLIC SCHOOLS	411 N HIGHLANDER WAY	HOWELL	MI	48843	4125 CROOKED LAKE RD	HOWELL	MI	48843
11-17-400-005	CUSTER, SCOTT	2662 NIXON	HOWELL	MI	48843	2662 NIXON	HOWELL	MI	48843
11-17-400-007	LH & M LLC	12912 LEISURE	WARREN	MI	48088	0 CROOKED LAKE			
11-20-200-007	PANHANDLE EASTERN PIPE LINE	P O BOX 4967	HOUSTON	TX	77210-4967	3990 CROOKED LAKE RD	HOWELL	MI	48843
11-17-400-008	NIXON GORDON & GAIL LIFE ESTATE	3510 CROOKED LAKE RD.	HOWELL	MI	48843	0 VACANT	HOWELL	MI	48843

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I am applying for a permit(s) to authorize the activities described herein. I certify that I am familiar with the information contained in this application; that it is true and accurate; and, to the best of my knowledge, that it is in compliance with the State Coastal Zone Management Program. I understand that there are penalties for submitting false information and that any permit issued pursuant to this application may be revoked if information on this application is untrue. I certify that I have the authority to undertake the activities proposed in this application. By signing this application, I agree to allow representatives of the DEQ, USACE, and/or their agents or contractors to enter upon said property in order to inspect the proposed activity site before and during construction and after the completion of the project. I understand that I must obtain all other necessary local, county, state, or federal permits and that the granting of other permits by local, county, state, or federal agencies does not release me from the requirements of obtaining the permit requested herein before commencing the activity. I understand that the payment of the application fee does not guarantee the issuance of a permit.

<input type="checkbox"/> Property Owner <input type="checkbox"/> Agent/Contractor <input checked="" type="checkbox"/> Corp. or Public Agency / Title	Printed Name Kelly VariMarter	Signature 	Date 3/20/13
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10 Projects Impacting Inland Lakes, Streams, Great Lakes, Wetlands or Floodplains

- Complete only those sections A through M applicable to your project.
- If your project impacts wetlands also complete Section 12. If your project impacts regulated floodplains also complete Section 13.
- To calculate volume in cubic yards (cu yd), multiply the average length in feet (ft) times the average width (ft) times the average depth (ft) and divide by 27. Example: (25 ft long x 10 ft wide x 2 feet deep) / 27 = 18.5 cubic yards
- Some projects on the Great Lakes require an application for conveyance prior to Joint Permit Application completeness.
 - Provide a black and white overall site plan, with cross-section and profile drawings. Show existing lakes, streams, wetlands, and other water features; existing structures; and the location of all proposed structures, land change activities and soil erosion and sedimentation control measures. Review Appendix B and EZ Guides for aid in providing complete site-specific drawings.
 - Provide tables for multiple impact areas or multiple activities such as multiple fill areas or multiple culverts. Include your calculations.

Water Level Elevation

On inland waters NGVD 29 NAVD 88 other Observed water elevation (ft) date of observation (M/D/Y)

On a Great Lake IGLD 85 surveyed converted from observed still water elevation.

A. PROJECTS REQUIRING FILL (See All Sample Drawings)

- Attach a site plan and cross-section views to scale showing maximum and average fill dimensions with calculations.
- For multiple impact areas on a site provide a table with location, dimensions and volumes for each fill area.

Purpose	<input type="checkbox"/> bioengineered shore protection	<input type="checkbox"/> boat ramp	<input type="checkbox"/> boat well	<input type="checkbox"/> bridge or culvert	<input type="checkbox"/> crib dock
	<input type="checkbox"/> riprap	<input type="checkbox"/> seawall	<input type="checkbox"/> swim area	<input checked="" type="checkbox"/> other <i>non-motorized pathway</i>	
Dimensions of fill (ft)	Total volume (cubic yards)		Volume below OHWM (cubic yards)		
Length 310' Width 13' Maximum Depth 2.8'	377 cu. yd.				
Maximum water depth in fill area (ft)	Area filled (sq ft) 4,030 sq. ft.		Will filter fabric be used under proposed fill?		
			<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, type)		
Fill will extend	feet into the water from the shoreline and upland	feet out of the water.			

Type of clean fill peastone % sand 30% gravel 70% other

Source of clean fill commercial on-site other

If on-site, show location on site plan. If other, attach description of location.

B. PROJECTS REQUIRING DREDGING OR EXCAVATION (See Sample Drawings)

- Refer to www.mi.gov/jointpermit for spoils disposal and authorization requirements.
- Attach a site plan and cross-section views to scale showing maximum and average dredge or excavation dimensions with calculations.
- For multiple impact areas on a site provide a table with location, dimensions and volumes for each dredge/excavation area.

Purpose	<input type="checkbox"/> boat ramp	<input type="checkbox"/> boat well	<input type="checkbox"/> bridge or culvert	<input type="checkbox"/> maintenance dredge
	<input type="checkbox"/> navigation	<input type="checkbox"/> pond/basin	<input type="checkbox"/> other	
Dimensions (ft)	Total volume (cu yds)		Volume below OHWM (cu yds)	
Length Width Maximum Depth				
Has this same area been previously dredged?	<input type="checkbox"/> No <input type="checkbox"/> Yes	If Yes, provide date and permit number:		
Will the previously dredged area be enlarged?	<input type="checkbox"/> No <input type="checkbox"/> Yes	If Yes, when and how much?		
Is long-term maintenance dredging planned?	<input type="checkbox"/> No <input type="checkbox"/> Yes	If Yes, how often?		

Dredge or Excavation Method Hydraulic Mechanical other

Spoils Disposal	Dredged or excavated spoils will be placed <input type="checkbox"/> on-site <input type="checkbox"/> landfill <input type="checkbox"/> USACE confined disposal facility <input type="checkbox"/> other upland off-site
	For disposal, provide a Detailed spoils disposal area location map and site plan with property lines. Letter of authorization from property owner of spoils disposal site, if disposed off-site.
	For volumes less than 5,000 cu yards, has proposed dredge material been tested for contaminants within the past 10 years?
	<input type="checkbox"/> No <input type="checkbox"/> Yes <i>If Yes, provide test results with a map of sampling locations.</i>

C. PROJECTS REQUIRING RIPRAP (See Sample Drawings 2, 3, 8, 12, 14, 22, and 23)

Riprap water ward of the ordinary high water mark: dimensions (ft)	length	width	depth	Volume(cu yd)
Riprap landward of the ordinary high water mark: dimensions (ft)	length	width	depth	Volume(cu yd)
Type and size of riprap (inches)	Will filter fabric or pea stone be used under proposed riprap?			
<input type="checkbox"/> field stone <input type="checkbox"/> angular rock <input type="checkbox"/> other	<input type="checkbox"/> No <input type="checkbox"/> Yes, Type			



12 Activities That May Impact Wetlands (See Sample Drawings 8 & 9). Complete other Sections as applicable.

- Locate your site and wetland information with the DEQ Wetlands Map Viewer at www.mcgl.state.mi.us/wetlands/
- For information on the DEQ's Wetland Identification Program (WIP) visit www.mi.gov/wetlands
 - Provide a detailed site plan with labeled property lines, upland and wetland areas, and dimensions and volumes of wetland impacts.
 - Complete the wetland dredge and wetland fill dimension information below for each impacted wetland area.
 - Attach tables for multiple impact areas or activities.
 - Attach at least one cross-section for each wetland dredge and/or fill area; show wetland and upland boundaries on the cross-section.

Has the DEQ conducted a wetland assessment for this parcel?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	⇒ If Yes, provide a copy or WIP number:
Has a professional wetland delineation been conducted for this parcel?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	⇒ If Yes, provide a copy with data sheets
Is there a recorded DEQ easement on the property?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	⇒ If Yes, provide the easement number
Did the applicant purchase the property before October 1, 1980?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	⇒ If Yes, provide documentation.
Is any grading or mechanized land clearing proposed?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	⇒ If Yes, label the locations on the site plan.
Has any of the proposed grading or mechanized land clearing been completed?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	⇒ If Yes, label the locations on the site plan

Proposed Activity	<input type="checkbox"/> boardwalk or deck (Section 10I)	<input type="checkbox"/> bridges and culverts (Section 14)	<input type="checkbox"/> designated environmental area
	<input type="checkbox"/> dewatering	<input type="checkbox"/> draining surface water	<input type="checkbox"/> driveway / road
	<input type="checkbox"/> fences (Section 10L)	<input checked="" type="checkbox"/> fill or dredge	<input type="checkbox"/> restoration
	<input type="checkbox"/> septic system	<input type="checkbox"/> stormwater discharge (Section 10J)	<input checked="" type="checkbox"/> other sidewalk/bikepath

FILL	Dimensions maximum length (ft) 310' maximum width (ft) 13'	Area <input type="checkbox"/> acres <input checked="" type="checkbox"/> sq ft 4030 sq. ft.	Average depth (ft) 2.5'	Volume (cu yd) 377
DREDGE	Dimensions maximum length (ft) maximum width (ft)	Area <input type="checkbox"/> acres <input type="checkbox"/> sq ft	Average depth (ft)	Volume (cu yd)

Spoils Disposal	Dredged or excavated spoils will be placed <input type="checkbox"/> on-site <input type="checkbox"/> landfill <input type="checkbox"/> USACE confined disposal facility <input type="checkbox"/> other upland off-site
	For disposal, provide a ⇒ Detailed spoils disposal area location map and site plan with property lines. ⇒ Letter of authorization from property owner of spoils disposal site, if disposed off-site.

Septic System	The proposed project will be serviced by: <input type="checkbox"/> public sewer <input type="checkbox"/> private septic system ⇒ Show system on plans.	If a private septic system is proposed, has an application for a permit been made to the County Health Department? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, has a permit been issued? <input type="checkbox"/> No <input type="checkbox"/> Yes ⇒ Provide a copy of the permit.
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Describe the wetland impacts, the proposed use or development, and the alternatives considered:

The proposed non motorized pathway project is to be built along the west side of Nixon Rd from Crooked Lake Rd to south of Beck Rd. The pathway is proposed to be built in conjunction with a separate road improvement project that has separately been permitted to impact the subject wetland area. The proposed pathway is located as near as possible to the curb and gutter of the roadway as recommended by the 2012 AASHTO Guide for Development of Bicycle Facilities. The proposed pathway is located inside the area that has been permitted separately by the road improvement project, however, the construction of the pathway has required additional fill beyond what was necessitated by the road improvement project.

Alternative treatments that were considered was to build a boardwalk over the wetland area, while this alternative would eliminate much of the fill needing to be placed in the wetland, it would be detrimental to vegetation under the shadow of the boardwalk.

Does the project impact more than 1/3 acre of wetland? No Yes
 ⇒ If Yes, submit a Mitigation Plan with the type and amount of mitigation proposed. For more information go to www.mi.gov/wetlands

Describe how impacts to waters of the United States will be avoided and minimized:

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Describe how the impact to waters of the United States will be compensated. OR Explain why compensatory mitigation should not be required for the proposed impacts.

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Additional Analysis for Section 4 of the Joint Permit Application

File Number: 13-47-0021-P

Applicant: Genoa Charter Township, 2911 Dorr Road, Brighton MI

Project Name: Nixon Road Pathway Project

The proposed non-motorized pathway project is to be built along the west side of Nixon Rd from Crooked Lake Rd northerly over I-96 to the south side of Grand River Ave. The pathway is proposed to be built in conjunction with a separate road improvement project that has separately been permitted to impact the subject wetland area. The proposed pathway is located inside the area that has been permitted separately by the road improvement project, however, the construction of the pathway has required additional fill beyond what was necessitated by the road improvement project.

Location/Layout and Design:

In the vicinity of the wetland area, the proposed pathway is located as near as possible to the curb and gutter of the roadway. As recommended by the 2012 AASHTO Guide for Development of Bicycle Facilities, "The minimum recommended distance between a path and the roadway curb (i.e., face of curb) or edge of traveled way (where this is no curb) is 5 ft. (1.5 m).". The design guide suggests that where the separation is less than 5 ft., a physical barrier or railing should be provided between the path and the roadway which would prevent path users from making undesirable or unintended movements from the path to the roadway. In light of this, a considered alternative would be to locate the pathway approximately 2 ft. from the roadway curb and install a 42 inch chainlink fence between the roadway curb and the path. This would mitigate approximately 3 ft. of the width of the impact to the wetland area, but not all of it. The governing road agency (Livingston County Road Commission) expressed a dis-interest in permitting the pathway construction if such a barrier were proposed near the roadway. Their expressed reasons were the adverse effect for snowplowing, long term maintenance of the fence (due to crashes, etc.), and adverse effect on traffic operation due to a narrowing effect of fencing near the traveled way of the roadway.

Location Alternatives:

An alternative location was considered during the development of the project to locate the pathway on the east side of Nixon Road instead of the west side as proposed. In the vicinity of the wetland area, a wetland actually exists on both sides of Nixon Road. The length of impact on the east side of the road would be approximately 310 ft. long, as compared to the length of impact as proposed on the west side of the road, which is equally 310 ft. long.

Another location alternative would be to locate the pathway such that it travels around the wetland area. In this case, the pathway would have to be constructed to travel around the perimeter of the wetland. Going south, the path would go counterclockwise around the wetland area and come back to the proposed crossing at Crooked Lake Road. This alternative would result in approximately 650 ft. of additional distance. In addition, it would necessitate venturing far (400 ft.) into the private site that has ownership of the wetland area. The cost implications of the additional distance and the right-of-way easement from the private owner made this alternative unfeasible for the Township.

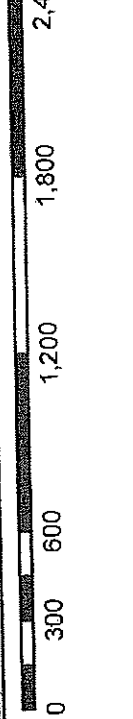
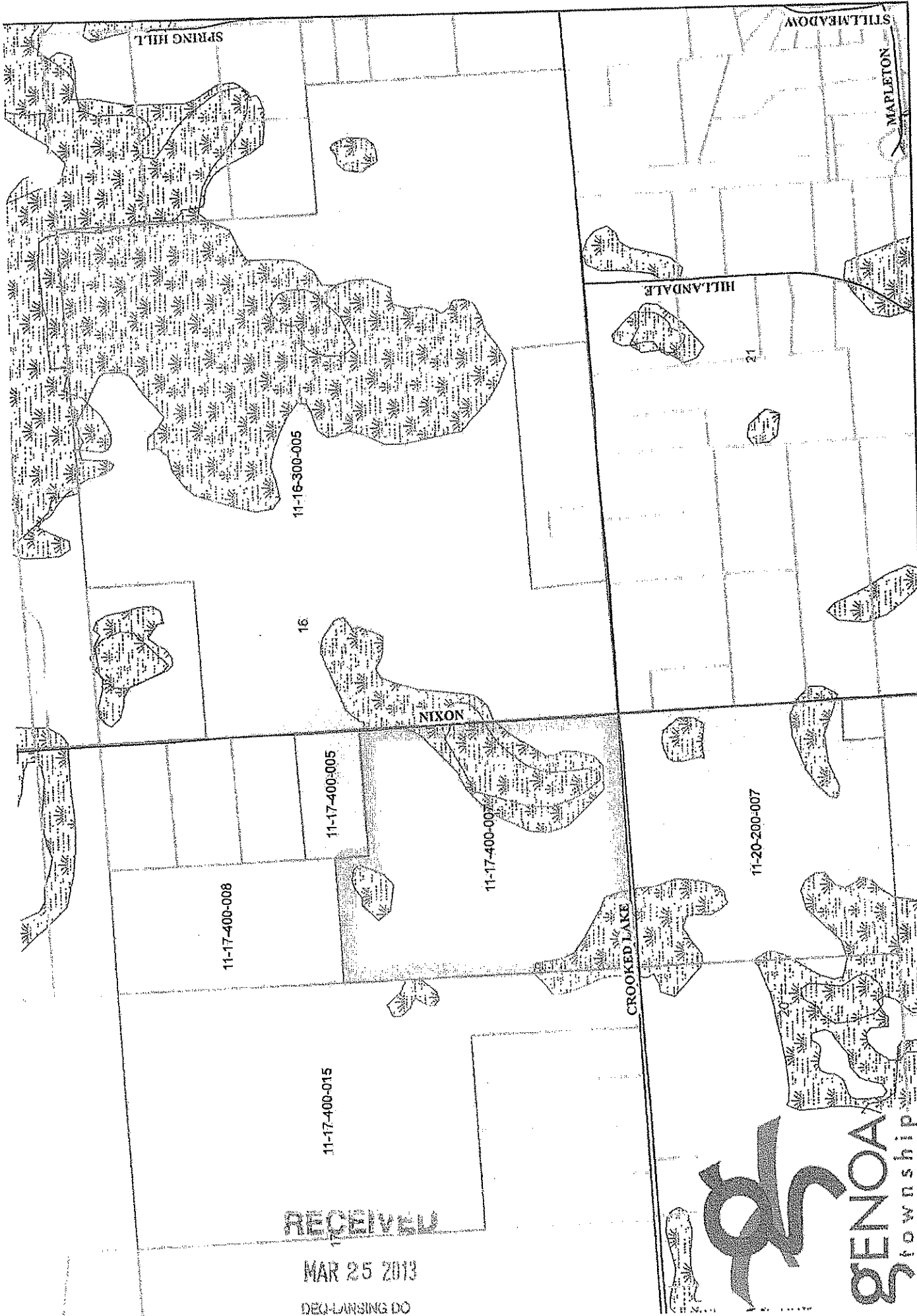
A third alternative location was to cross the pathway onto the school site at Three Fires Elementary School and go around the wetland areas that exist on the east side of Nixon Road. Once again, this alternative would result in additional distance of approximately 900 ft. To the

detriment of this alternative, the school district had security concerns about routing a public non-motorized facility onto their elementary school campus in close proximity to the playgrounds.

Construction Alternatives:

A construction alternative treatment that was considered was to build a boardwalk over the wetland area. This alternative would eliminate much of the fill needing to be placed in the wetland area. The boardwalk would consist of timber piles driven into the supporting soils, with a timber decking and rails 42 inches high on each side. The boardwalk width would be 14 ft. clear on the insides as recommended by the 2012 AASHTO Guide for Development of Bicycle Facilities. Based on prices for similar boardwalk installations on other non-motorized pathway projects in mid-Michigan, the cost for this option could amount to \$155,000. The cost of the boardwalk option is prohibitive to the successful completion of the pathway project as a whole. In addition, the construction of a boardwalk would present long term maintenance and replacement costs for the Township that would exceed those inherent to a paved pathway. Finally, the Township is concerned with the safety of children with the boardwalk option. This pathway is intended to serve the Three Fires Elementary School located on the west side of Nixon Road. We anticipate young children to be a primary user of the pathway and it is very difficult to construct a railing system which will totally protect children. Additionally, the Township intends on maintaining the pathway in the winter for the school children and snow removal on the boardwalk would be very challenging. Other concerns with the boardwalk option is that the surface may become slippery when wet. This could present a safety hazard for users.

RECEIVED
APR 25 2013
DEQLANSING DO



RECEIVED

MAR 25 2013

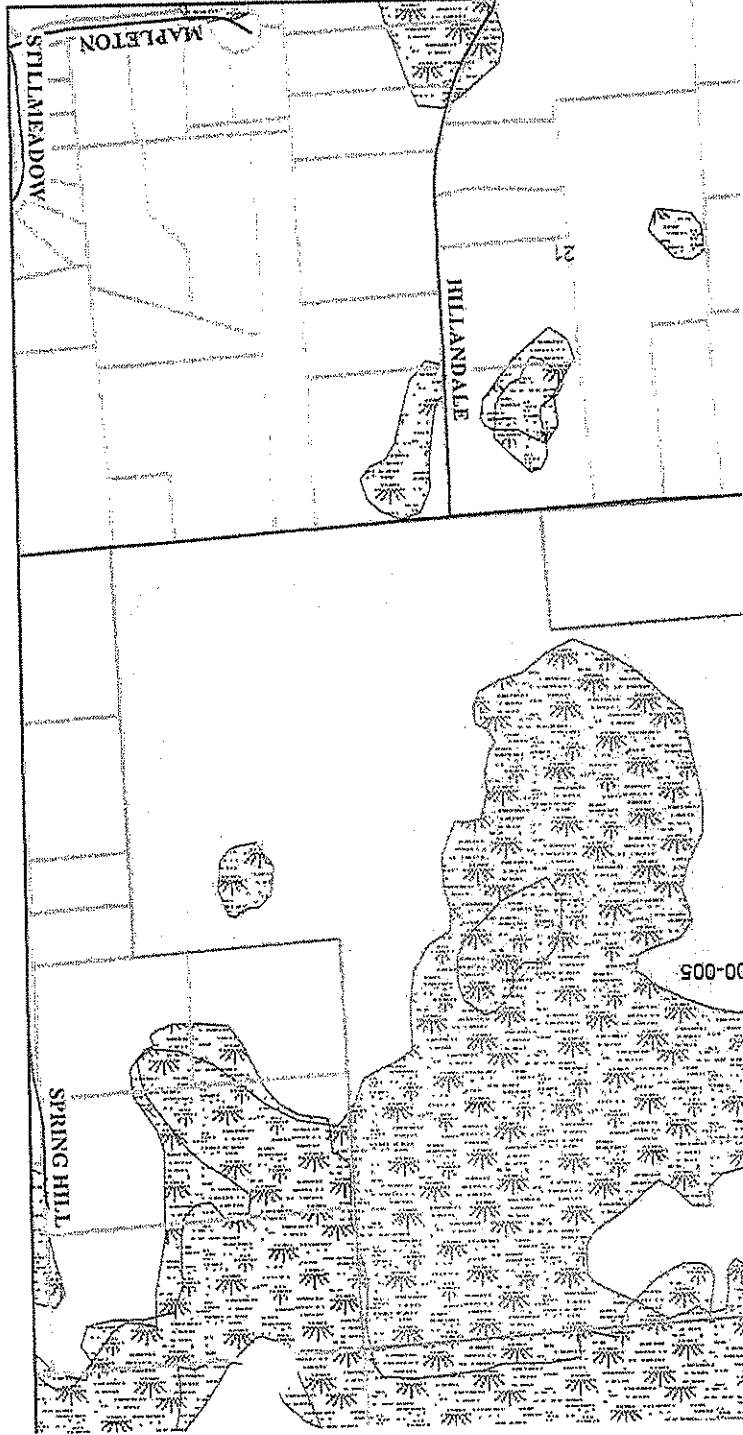
DEQ-LANSING DO

GENOA
Township

Adjacent Properties



00 1,200 1,800 2,400 Feet N



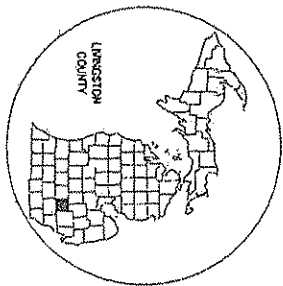
THE ENGINEER'S CERTIFICATE OF TITLE SHALL BE DONE IN ACCORDANCE WITH THE
 REQUIREMENTS OF THE MISSOURI REVENUE DEPARTMENT AND THE MISSOURI
 REVENUE DEPARTMENT OF REVENUE. THE ENGINEER'S CERTIFICATE OF TITLE
 SHALL BE DONE IN ACCORDANCE WITH THE MISSOURI REVENUE DEPARTMENT OF
 REVENUE CONTROL BOARD.

_____ JAMES M. DILL, GENOA CHARTER TOWNSHIP CLERK

GENOA CHARTER TOWNSHIP

LIVINGSTON COUNTY

PART _____ CONTROL SEC. _____ JOB NO. _____ FEDERAL PROJECT _____ TITLE _____



CS: _____
 JN: _____

TITLE SHEET LEGEND

PROPOSED PROJECT -----

EXISTING ROADS -----

PAVED -----

SECTION LINE -----

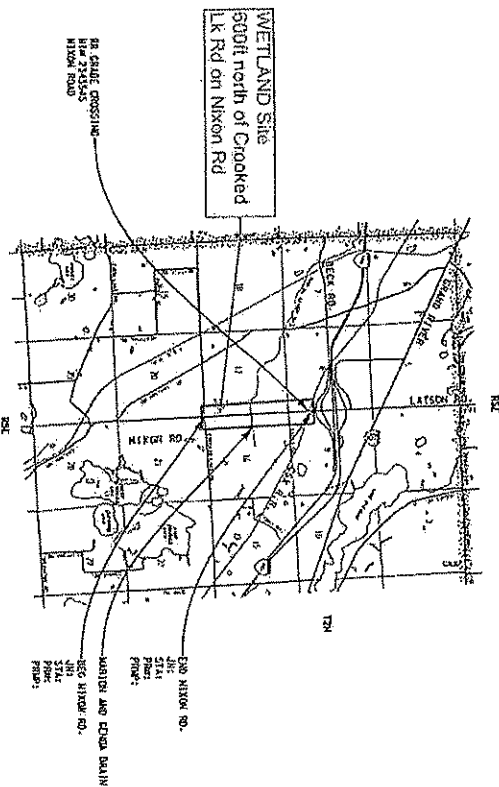
TOWNSHIP LINE -----

COUNTY LINE -----

CITY OR VILLAGE LIMITS -----

BOUNDARIES -----

RECEIVED
 MAR 25 2013
 LIVINGSTON CO



THE TOWNSHIP ENGINEER HAS REVIEWED THIS PROJECT FOR THE
 GENOA CHARTER TOWNSHIP

APPROVALS

RECOMMENDED FOR APPROVAL BY _____ DATE _____

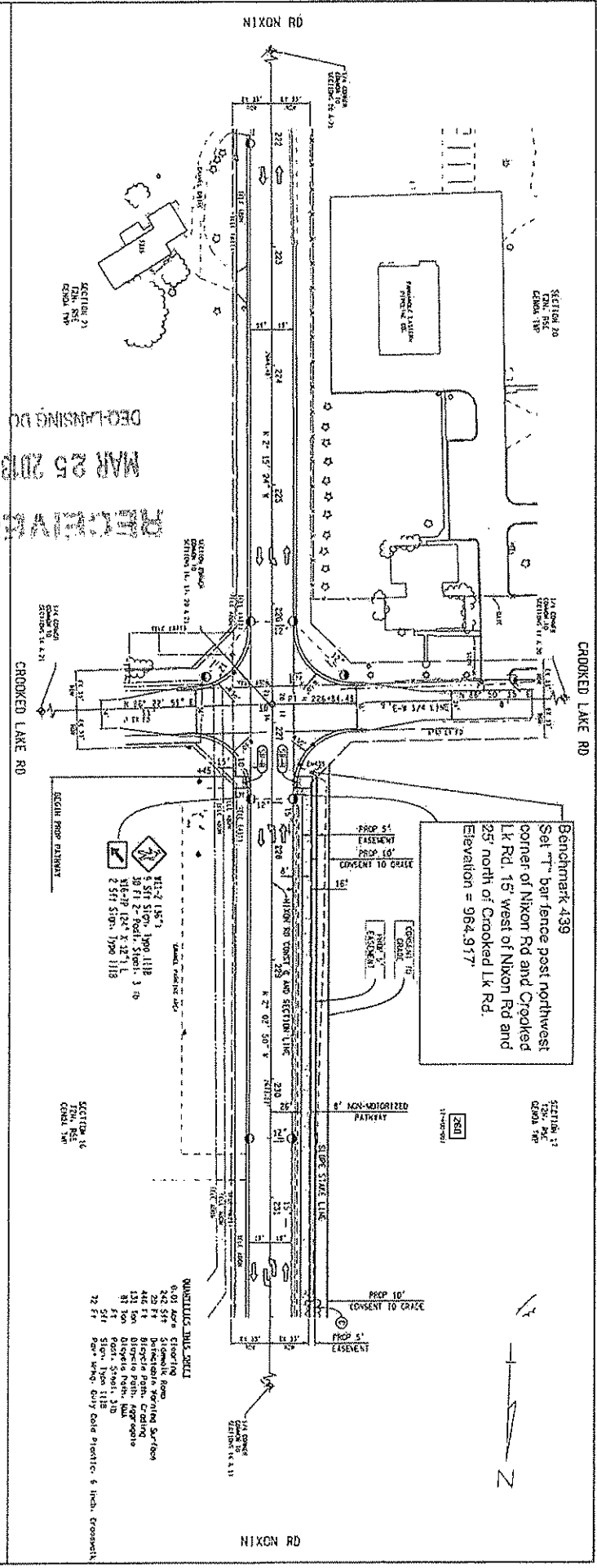
RECOMMENDED FOR APPROVAL BY _____ DATE _____

GENOA CHARTER TOWNSHIP

1,500 FEET
 CONTRACT FOR: CLASSIC GARDEN, SQUARE, WILMINGTON
 NON-PAVING PATHWAY, CLASSIC GARDEN, SQUARE, WILMINGTON

	GENOA CHARTER TOWNSHIP	NO SCALE	PREPARED BY: _____ CHECKED BY: _____ DATE: _____	DESIGNED BY: _____ CHECKED BY: _____ DATE: _____	CS: _____ JN: _____	SHEET NO. _____ TOTAL SHEETS _____
	PROJECT NO. _____ DRAWING NO. _____					

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES.



Station	Elevation	Notes
221	964.15	
222	964.15	
223	964.15	
224	964.15	
225	964.15	
226	964.15	
227	964.15	
228	964.15	
229	964.15	
230	964.15	
231	964.15	
232	964.15	
233	964.15	
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244	964.15	
245	964.15	
246	964.15	
247	964.15	
248	964.15	
249	964.15	
250	964.15	

FOR INFORMATION ONLY
 EARTHWORK TO BE AS
 SHOWN ON DRAWING. CANNOT
 BE GUARANTEED. CIP

Engineering, LLC
 Dept. of Civil Engineering
 Dept. of Civil Engineering

Vertical Curve
 VERT. CURVE
 HORIZ. CURVE

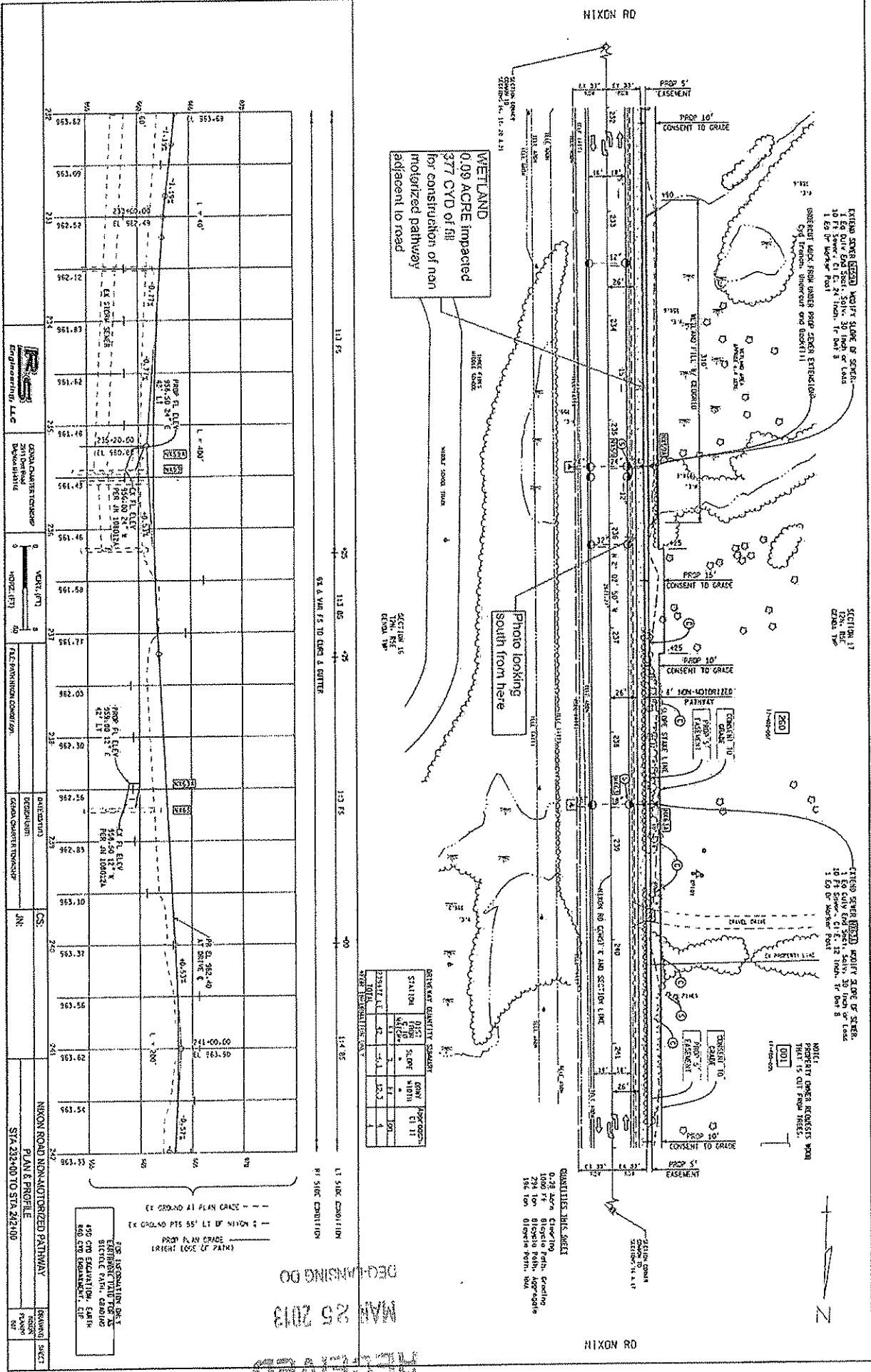
Horizontal Curve
 HORIZ. CURVE
 VERT. CURVE

Stationing
 STATIONING
 ELEVATION

Scale
 SCALE
 NORTH

Notes
 NOTES
 1. SEE SHEET 100 FOR
 2. SEE SHEET 101 FOR
 3. SEE SHEET 102 FOR

Project Information
 PROJECT INFORMATION
 DRAWING NO. 222-100 TO STA 222-100



WETLAND
 0.09 ACRE impacted
 377 CYD of fill
 for construction of non
 motorized pathway
 adjacent to road

Photo looking
 South from here

QUANTITIES SHEET

STATION	DIST	PROP	CONV
225+00	1.00	1.00	1.00
226+00	1.00	1.00	1.00
227+00	1.00	1.00	1.00
228+00	1.00	1.00	1.00
229+00	1.00	1.00	1.00
230+00	1.00	1.00	1.00
231+00	1.00	1.00	1.00
232+00	1.00	1.00	1.00
233+00	1.00	1.00	1.00
234+00	1.00	1.00	1.00
235+00	1.00	1.00	1.00
236+00	1.00	1.00	1.00
237+00	1.00	1.00	1.00
238+00	1.00	1.00	1.00
239+00	1.00	1.00	1.00
240+00	1.00	1.00	1.00
241+00	1.00	1.00	1.00

RS
 Engineering, LLC

CONA CHARLES THOMPSON
 2811 DORLAND
 BAYVIEW BLVD

SCALE: HORIZ. 1" = 40'
 VERT. 1" = 4'

DATE: 07/11/13

DESIGNER: CONA CHARLES THOMPSON

JK

NIXON ROAD NON-MOTORIZED PATHWAY
 PLAN & PROFILE
 STA 233+00 TO STA 242+00

DATE: 07/11/13

REVISIONS

205 ASSUMPTIONS ONLY
 495 CIVIL EXCAVATION, C&M
 810 CIVIL EXCAVATION, C&M

MAN 25 2013
 REG-PLANNING DO

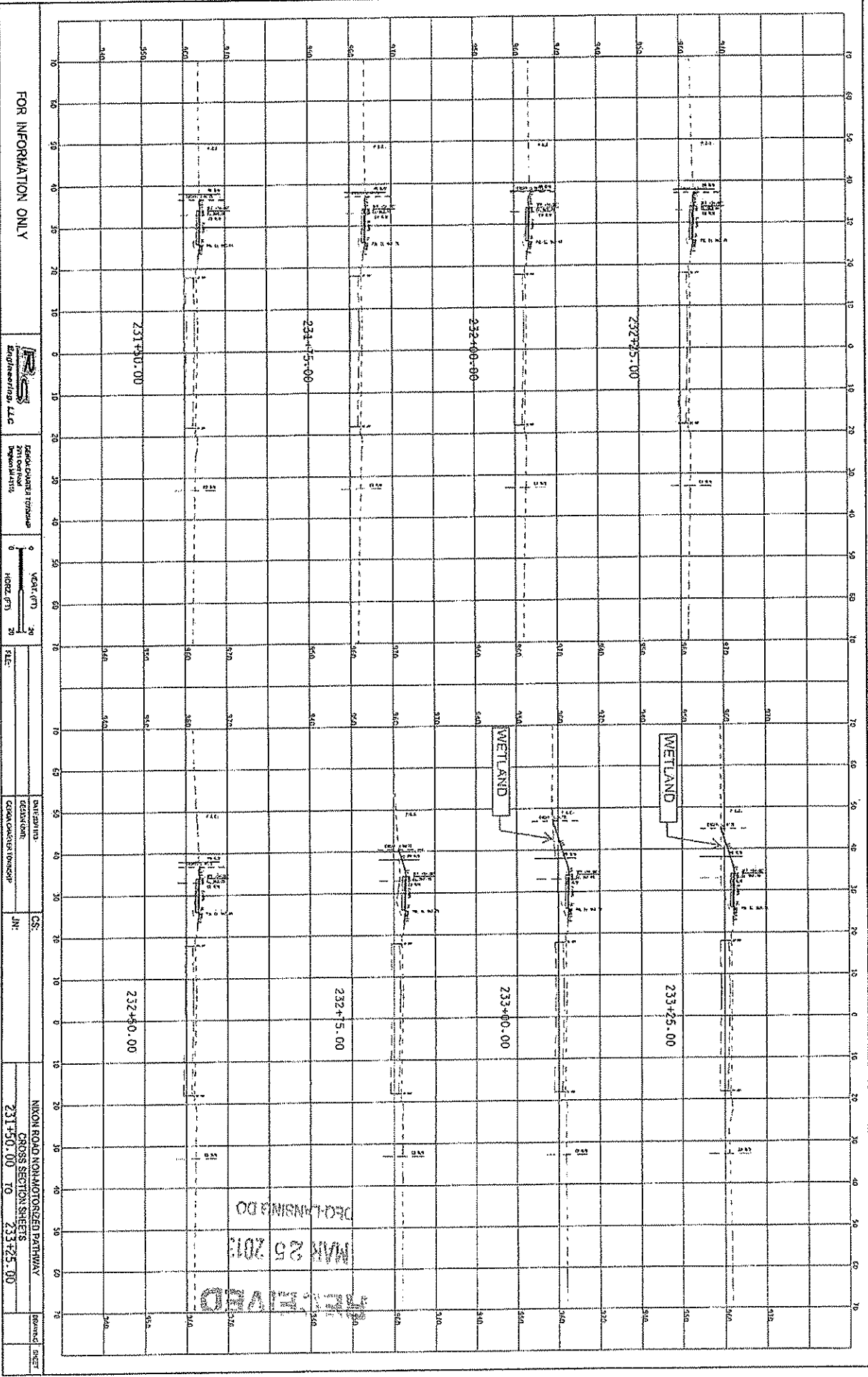
EXTEND SEVERE (S22) WIDTH 3.0 FT OF SEWER
 1.50 CIVIL EXCAVATION, 3.00 FROM 10' FROM OF LANE
 10 FT SEWER, 1.50 FROM 10' FROM 10' FROM 8'
 1.50 FROM SEWER FROM

SECTION 17
 120' HORIZ
 200' VERT

EXTEND SEVERE (S22) WIDTH 3.0 FT OF SEWER
 1.50 CIVIL EXCAVATION, 3.00 FROM 10' FROM OF LANE
 10 FT SEWER, 1.50 FROM 10' FROM 10' FROM 8'
 1.50 FROM SEWER FROM

NOTE:
 PROPERTY OWNER REQUESTS THAT
 THAT IS CUT FROM TREES.

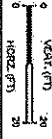
CONSULT SEE SHEET
 105' FROM 10' FROM
 105' FROM 10' FROM
 234' FROM 10' FROM
 186' FROM 10' FROM



FOR INFORMATION ONLY



BRADY CHAPMAN, P.E.
2311 CENTRAL
DENVER, CO 80202



DATE: 05/11/11
PROJECT: NIXON ROAD ROADWAY IMPROVEMENTS
SHEET: 231+50.00 TO 233+25.00

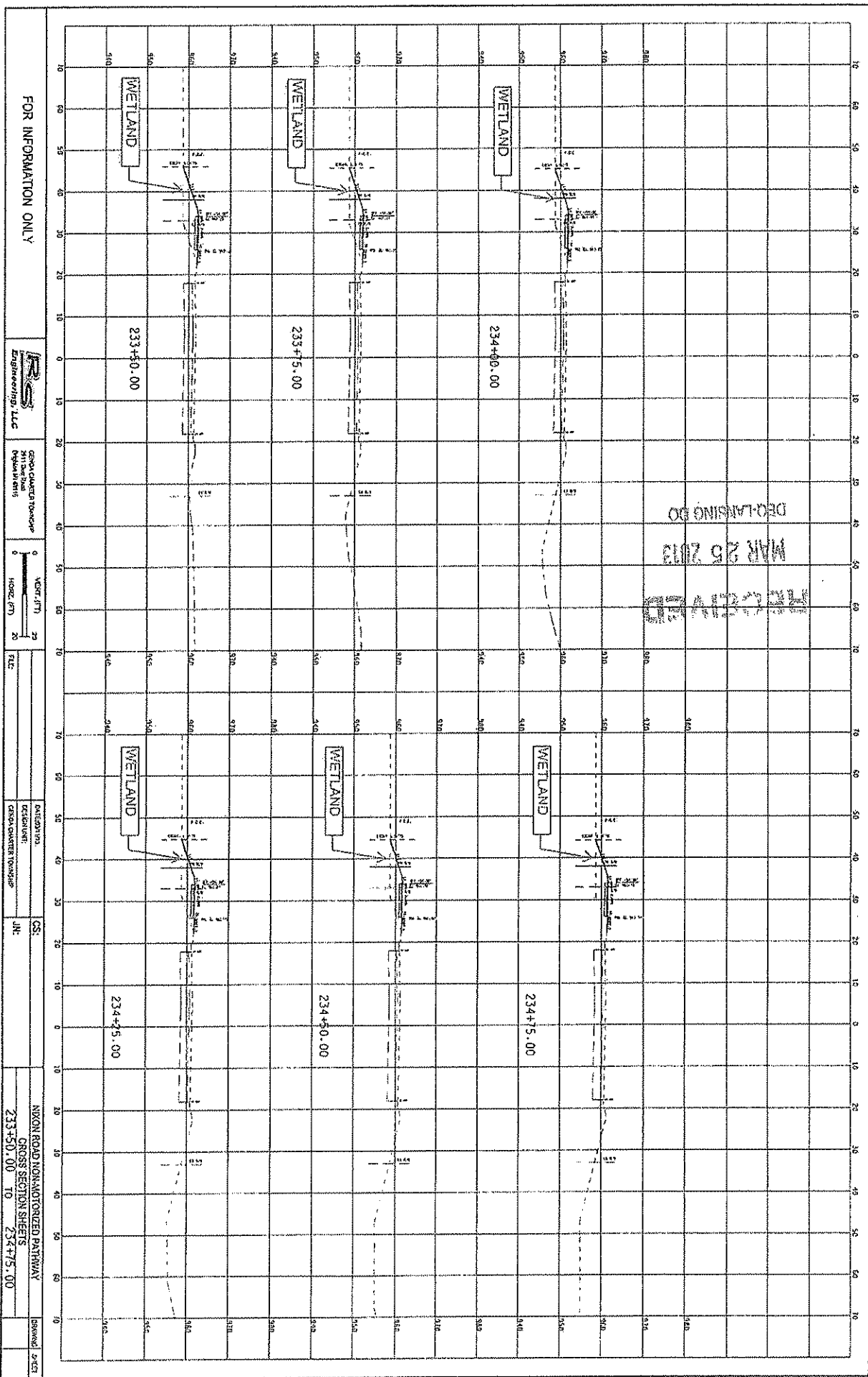
DESIGNED BY: BRADY CHAPMAN, P.E.
CHECKED BY: BRADY CHAPMAN, P.E.

CS: JN

NIXON ROAD ROADWAY IMPROVEMENTS
CROSS SECTION SHEETS
231+50.00 TO 233+25.00

DATE: 05/11/11
SHEET: 231+50.00 TO 233+25.00

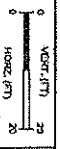
RECEIVED
MAY 25 2011
DENVER, COLORADO



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2000 QUANTA TOWNSHIP
MIDDLEBURY, VT



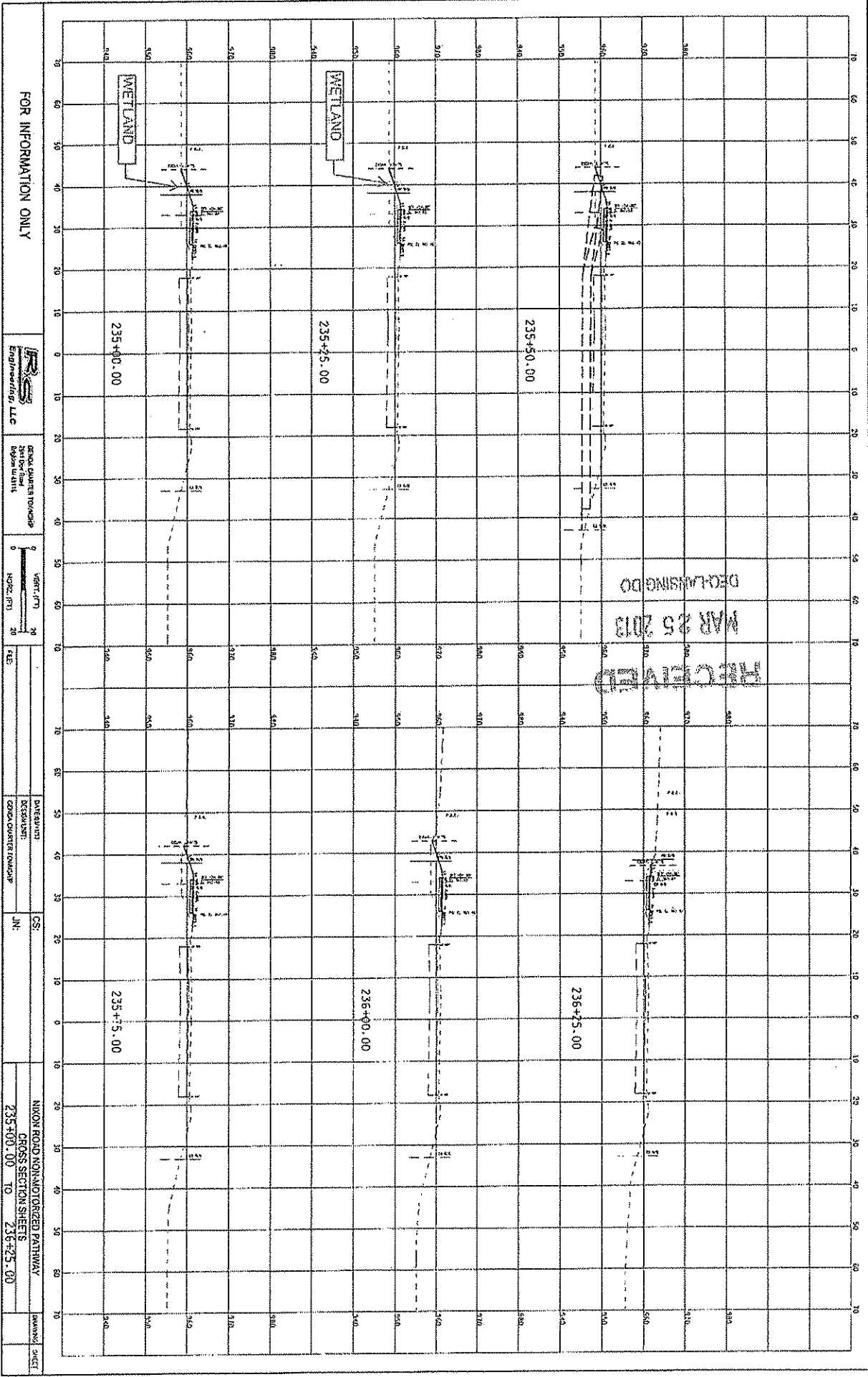
DATE: 03/28/13
SCALE: AS SHOWN

DESIGNED BY: [Name]
CHECKED BY: [Name]

PROJECT NO.: [Number]
SHEET NO.: [Number]

NIRON ROAD NON-ADJUTED PATHWAY
CROSS SECTION SHEETS
233+50.00 TO 234+75.00

ISSUED: [Date]
BY: [Name]



FOR INFORMATION ONLY



DEBRA QUARTER TOWNSHIP
2ND DISTRICT
MICHIGAN

DATE: 03/20/13
PROJECT: NIXON RD

SCALE: 1" = 20'

DATE: 03/20/13
PROJECT: NIXON RD

CS: JN

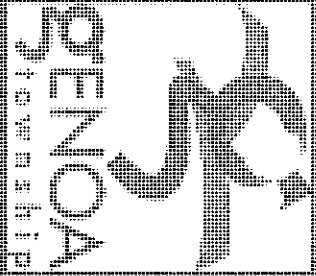
NIXON ROAD CORRIDOR STUDY
CROSS SECTION SHEETS
235+00.00 TO 236+25.00

DATE: 03/20/13
PROJECT: NIXON RD

RECEIVED

MAR 25 2013

01 10 00 AM



SUBJECT SITE

