

TO: Agencies with Critical Dune Areas in their Jurisdictions

FROM: Water Resources Division  
Michigan Department of Environmental Quality

DATE: February 20, 2013

SUBJECT: Notice of Application Received  
File No. 13-61-0017-P

Enclosed for your information is an application for permit under consideration by the Michigan Department of Environmental Quality (MDEQ), Water Resources Division, for a project in a Critical Dune Area in accordance with Section 35304(1)(b), found in Part 353, Sand Dunes Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

If you would like additional information regarding this application, contact the local staff reviewer, Ms. Nancy Cuncannan, at 616-356-0209; [cuncannann@michigan.gov](mailto:cuncannann@michigan.gov); or MDEQ, WRD, Grand Rapids District Office, 350 Ottawa Avenue NW, Unit 10, Grand Rapids, Michigan 49503-2316.

All correspondence should reference File No. 13-61-0017-P.

Enclosure

cc: White River Township Clerk  
Muskegon County Health Department  
Muskegon County Clerk  
Muskegon Conservation District  
Ms. Nancy Cuncannan, MDEQ

<b>AGENCY USE</b>	Previous USACE File Number	<b>Date Received</b>	<b>RECEIVED</b>	62-Nancy C
	USACE File Number		FEB 13 2013	DEQ File Number 13-61-0017-P
			ENVIRONMENTAL QUALITY LAND & WATER MANAGEMENT	Fee received \$ 1400.00 CC

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.mcqi.state.mi.us/wetlands/](http://www.mcqi.state.mi.us/wetlands/)

Project Address (road, if no street address) <i>0 Ferry Street</i>	Zip Code	Municipality (Township/Village/City) <i>White River Twp</i>	County <i>Muskegon</i>
Property Tax Identification Number(s) <i>61-01-002-100-0005-00</i>	Latitude <i>43.3548 N</i>	Township/Range/Section (TRS) T <i>11N</i> N or S; R <i>18W</i> E or W; Sec <i>2</i>	
Subdivision/Plat and Lot Number	Longitude <i>- 86 4277 W</i>	OR Private Claim # _____	

**2 Applicant and Agent Information**

Owner/Applicant (individual or corporate name) <i>Bro G Land Company c/o Bill Gezon</i>	Agent/Contractor (firm name and contact person) <i>Resource Planning &amp; Design</i>
Mailing Address <i>4199 N. Lakeshore Dr.</i>	Mailing Address <i>105 W. Exchange St.</i>
City <i>Holland</i> State <i>Mi</i> Zip Code <i>49424</i>	City <i>Spring Lake</i> State <i>Mi</i> Zip Code <i>49456</i>
Contact Phone Number <i>616-813-1726</i> Fax _____	Contact Phone Number <i>616-638-5735</i> Fax _____
Email _____	E-mail <i>johnsonphilip@sbcglobal.net</i>

No  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)	Mailing Address
Contact Phone Number	City State Zip Code

**3 Project Description**

Project Name <i>Bro G Residence</i>	Preapplication File Number - - -P
Name of Water body <i>Lake Michigan</i>	Date project staked/flagged <i>02/01/13</i>

The proposed project is on, within, or involves (check all that apply) <table style="width:100%; border: none;"> <tr> <td><input type="checkbox"/> an inland lake (5 acres or more)</td> <td><input type="checkbox"/> a Great Lake or Section 10 Waters</td> </tr> <tr> <td><input type="checkbox"/> a pond (less than 5 acres)</td> <td><input type="checkbox"/> a wetland</td> </tr> <tr> <td><input type="checkbox"/> a stream, river, ditch or drain</td> <td><input type="checkbox"/> a 100-year floodplain</td> </tr> <tr> <td><input type="checkbox"/> a legally established County Drain</td> <td><input type="checkbox"/> a dam</td> </tr> <tr> <td>Date Drain was established _____</td> <td><input checked="" type="checkbox"/> a designated high risk erosion area</td> </tr> <tr> <td><input type="checkbox"/> a channel/canal</td> <td><input checked="" type="checkbox"/> a designated critical dune area</td> </tr> <tr> <td><input checked="" type="checkbox"/> 500 feet of an existing water body</td> <td><input type="checkbox"/> a designated environmental area</td> </tr> </table>	<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 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 checked="" type="checkbox"/> a designated high risk erosion area	<input type="checkbox"/> a channel/canal	<input checked="" type="checkbox"/> a designated critical dune area	<input checked="" type="checkbox"/> 500 feet of an existing water body	<input type="checkbox"/> a designated environmental area	Project Use <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> private</li> <li><input type="checkbox"/> commercial</li> <li><input type="checkbox"/> public/government</li> <li><input type="checkbox"/> project is receiving federal/state transportation funds</li> <li><input type="checkbox"/> Wetland Restoration</li> <li><input type="checkbox"/> other</li> </ul>
<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 type="checkbox"/> a wetland														
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<input type="checkbox"/> a channel/canal	<input checked="" type="checkbox"/> a designated critical dune area														
<input checked="" type="checkbox"/> 500 feet of an existing water body	<input type="checkbox"/> a designated environmental area														

Indicate the type of permit being applied for:  General Permit  Minor Project  Individual (All other projects.) \* See Appendix C.

Written Summary of All Proposed Activities *Construct a small readily-moveable single family residence, driveway, on-site sanitary septic system and water well in accordance with attached plans*

Construction Sequence and Methods *Driveway construction shall occur first; driveway footprint shall be mechanically cleared; slope retention installed where proposed; driveway sub-base material installed; impacted areas stabilized with native vegetation; mechanically clear areas of house footprint, septic area and drive approach; excavate for foundations; install/backfill foundations; stabilize perimeter impacts; construct residence; install remaining drive approach; final surface all drive areas; plant impacted areas.*

**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.  
*Project purpose is to construct a single family residence on an existing lot of record owned by the applicant.*

Describe the alternatives considered to avoid or minimize resource impacts. Include factors such as, but not limited to, alternative locations, project layout and design, and construction technologies. For utility crossings include alternative routes and construction methods.  
*The proposed house location has been sited to avoid impacts to all steep slopes; the route of the 12' wide driveway has been located within the existing 24' wide easement so as to avoid impacts to steep slopes where possible; slope retention shall be used where proposed to minimize the footprint of the driveway*

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

Names of roads of closest intersection *Ferry Street and Old Channel Trail*

Directions from main intersection to the project site, with distances from the best and nearest visible landmark and water body *Follow Old Channel Trail North from Montague to Old Channel Inn located corner of Ferry and old Channel Trail (nth end of driveway off Ferry St).*

Description of buildings on the site (color; 1 or 2 story, other)	Description of adjacent landmarks or buildings (address; color; etc)
	<i>Old Channel Inn adjacent to Nth end of proposed new driveway</i>

How can your site be identified if there is no visible address? *Ferry St. ROW ends at Lake Michigan; driveway off sth side of ROW*

**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>Musk DPW</i>	<i>Part 91</i>			<i>12/10/12</i>	
<i>Musk Env Hlth</i>	<i>Septic/well</i>	<i>8394/1456</i>		<i>12/17/12</i>	
<i>MCD</i>	<i>Assurance</i>			<i>01/16/08</i>	

**7 Compliance**

If a permit is issued, when will the activity begin? (M/D/Y) *ASAP* Proposed completion date (M/D/Y) *12/31/13*

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>Cynthia Kiel Trust</i>	<i>6675 Lau Rd</i>	<i>Montague</i>	<i>MI 49437</i>
<i>Township of White River</i>	<i>7386 Post Rd</i>	<i>Montague</i>	<i>MI 49437</i>

**9 Applicant's Certification** *Read carefully before signing.*

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**20 Critical Dune Areas and High Risk Erosion Areas (See Sample Drawings 19 and 20)**

**Critical Dune Areas (See Sample Drawing 20)**

- Although not required, submitting **PHOTOGRAPHS** of the site may provide for a faster application review.
- For more information go to [www.mi.gov/jointpermit](http://www.mi.gov/jointpermit), select "Sand Dune Protection" under "Related Links."
- All property boundaries and proposed structure corners, including decks, septic systems, water wells, driveways, grading, and terrain alteration locations must be staked before the WRD site inspection.
- Scaled overhead and cross-section plans must include all property boundaries, locations, and dimensions of all existing structures and impacted areas, and all proposed structures, terrain alterations, and construction access. Cross-sections must show existing and proposed grades, including foundations.
- Construction in critical dune areas on slopes greater than 33 percent (1 vertical: 3 horizontal) is prohibited without a special exception.
- Construction in critical dune areas on slopes that measure from 25 percent (1 vertical: 4 horizontal) to less than 33 percent requires sealed plans prepared by a registered architect or licensed professional engineer.

**High Risk Erosion Areas (See Sample Drawing 19)**


- For more information go to [www.mi.gov/jointpermit](http://www.mi.gov/jointpermit), select "HREA" under "Related Links."
- All property boundaries, proposed structure corners, and septic system locations must be staked before the WRD site inspection.
- Scaled overhead plans must include all property boundaries, and the location and dimensions of all structures and septic systems must be included.
- Additional information, including the building construction plans, may be required to complete the application review.

Parcel dimensions (ft) width ~204' depth ~439'	Date project staked (M/D/Y) 02/01/13
Property is a <input type="checkbox"/> platted lot <input checked="" type="checkbox"/> unplatted parcel	Year current property boundaries created 1988
Dune habitat present in Building Site and access route (check all that apply): <input checked="" type="checkbox"/> Wooded <input type="checkbox"/> Open Dune <input checked="" type="checkbox"/> Shrubs <input type="checkbox"/> Bare Sand <input checked="" type="checkbox"/> Lakefront Lot <input type="checkbox"/> MNFI Community if known: _____	
Type of construction activities <input type="checkbox"/> addition <input checked="" type="checkbox"/> driveway <input checked="" type="checkbox"/> garage <input checked="" type="checkbox"/> new home <input type="checkbox"/> renovation <input checked="" type="checkbox"/> septic <input type="checkbox"/> deck(s) <input type="checkbox"/> other	
<input type="checkbox"/> Provide a sand relocation plan with location and dimensions of disposal area. Indicate <input checked="" type="checkbox"/> on-site OR <input type="checkbox"/> off-site	
<input checked="" type="checkbox"/> Provide the permit or letter from the County Enforcing Agent stating the project complies with Part 91 (Soil Erosion and Sedimentation Control).	
The proposed project will be serviced by <input type="checkbox"/> public sewer <input checked="" type="checkbox"/> private septic system. ➔ On the plans, show the location and dimensions of the private septic system. If a private septic system is proposed, has a permit been issued by the health department? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes ➔ If Yes, provide a copy of the permit for all Critical Dune Area projects.	
<input checked="" type="checkbox"/> Provide a copy of the vegetation assurance letter. <input type="checkbox"/> Provide a re-vegetation plan, including # _____ of trees to be removed and # _____ of trees to be replanted; OR <input checked="" type="checkbox"/> I certify that the cutting and removing of trees and other vegetation will be performed according to the "Forestry Management Guidelines for Michigan" prepared by the Society of American Foresters in 1987, revised in 2010, and may include a program to provide mitigation for the removal of trees or vegetation by providing assurances that the applicant will plant on the site more trees and other vegetation than were removed by the proposed use.	
<b>Proposed Utility Installation</b>	<b>Proposed New Construction</b>
Utility Installation Method <input type="checkbox"/> directional bore <input type="checkbox"/> plowing in <input checked="" type="checkbox"/> open trench <input type="checkbox"/> other	Foundation type <input checked="" type="checkbox"/> basement <input checked="" type="checkbox"/> concrete slab <input type="checkbox"/> pilings <input type="checkbox"/> crawl space <input type="checkbox"/> other
➔ Show utility locations and dimensions on the site plan.	Area of existing structure (sq ft)
➔ Show construction access route on the site plan.	Area of proposed structure (sq ft) ~3,480
➔ Show existing and proposed grades on the cross-section.	Area of existing deck (sq ft)
➔ Show locations of vegetation to be removed on the site plan.	Area of proposed deck (sq ft)
Provide the following information for special use projects: (a) Lot size, width, density, and front and side setbacks. (b) Storm water drainage that provides for disposal of drainage water without serious erosion. (c) Methods for controlling erosion from wind and water. (d) Re-stabilization plan. (e) Environmental Impact Statement.	

Critical Dune Areas

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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 checked="" type="checkbox"/> Agent/Contractor <input type="checkbox"/> Corp. or Public Agency / Title	Printed Name <i>Phil Johnson, Agent</i>	Signature 	Date 01/16/13
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<b>High Risk Erosion Areas</b>	Parcel dimensions (ft) width ~204' depth ~439'		Date project staked (M/D/Y) 02/01/13	
	<b>Existing Structure Information</b>		<b>Proposed New Construction</b>	
	Foundation type <input type="checkbox"/> basement <input type="checkbox"/> concrete slab <input type="checkbox"/> pilings <input type="checkbox"/> crawl space <input type="checkbox"/> other		Foundation type <input checked="" type="checkbox"/> basement <input checked="" type="checkbox"/> concrete slab <input type="checkbox"/> pilings <input type="checkbox"/> crawl space <input type="checkbox"/> other	
	Material above foundation wall <input type="checkbox"/> block <input type="checkbox"/> log <input type="checkbox"/> stud frame <input type="checkbox"/> other		Material above foundation wall <input type="checkbox"/> block <input type="checkbox"/> log <input checked="" type="checkbox"/> stud frame <input type="checkbox"/> other	
	Siding material <input type="checkbox"/> block <input type="checkbox"/> vinyl <input type="checkbox"/> wood <input type="checkbox"/> other		Siding material <input type="checkbox"/> block <input checked="" type="checkbox"/> vinyl <input checked="" type="checkbox"/> wood <input type="checkbox"/> other	
	Area of the foundation, excluding attached garage (sq ft)		Area of the foundation, excluding attached garage (sq ft) ~2804	
	Area of the garage foundation (sq ft)		Area of the garage foundation (sq ft) 676	
	If renovating or restoring an existing structure, indicate the renovation or restoration cost \$			
	Current structure replacement value \$			
	Tax assessed value of existing structure excluding land value \$		Assessment Year	
Provide the number of individual living units in the proposed building				

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Michigan Department of Environmental Quality  
Land And Water Management Division / PCU  
P.O. Box 30204  
Lansing, Michigan 48909

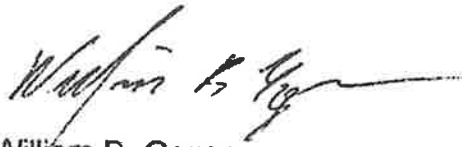
Re: Agent Authorization

To Whom it May Concern:

This letter serves as authorization for Resource Planning & Design, LLC to act as our agent in obtaining any required local, state, or federal construction permits, for activities to be conducted at our property located in White River Township, Muskegon County, MI

If there are any questions regarding this application, or to arrange an on-site inspection, please contact Mr. Philip M. Johnson, Project Manager, at (616) 846-0620 Ext 217, or fax to (616) 844-6079, or e-mail to "johnsonphilip@sbcglobal.net" or you may write to him at 105 W. Exchange, Spring Lake, MI 49456

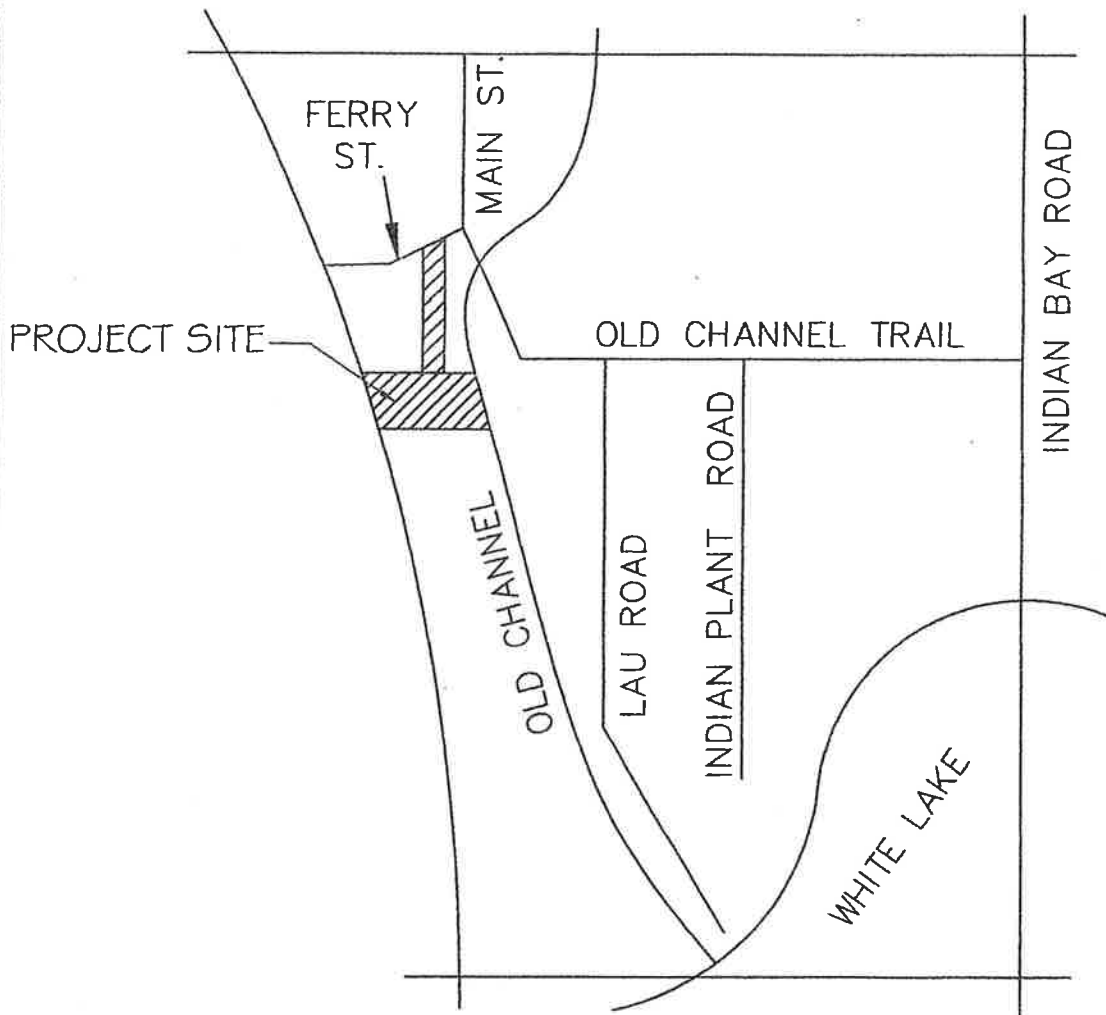
Sincerely,



William R. Gezon  
Managing Partner  
Bro-G Land Company

(616) 813-1726

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*Bill Gezon*

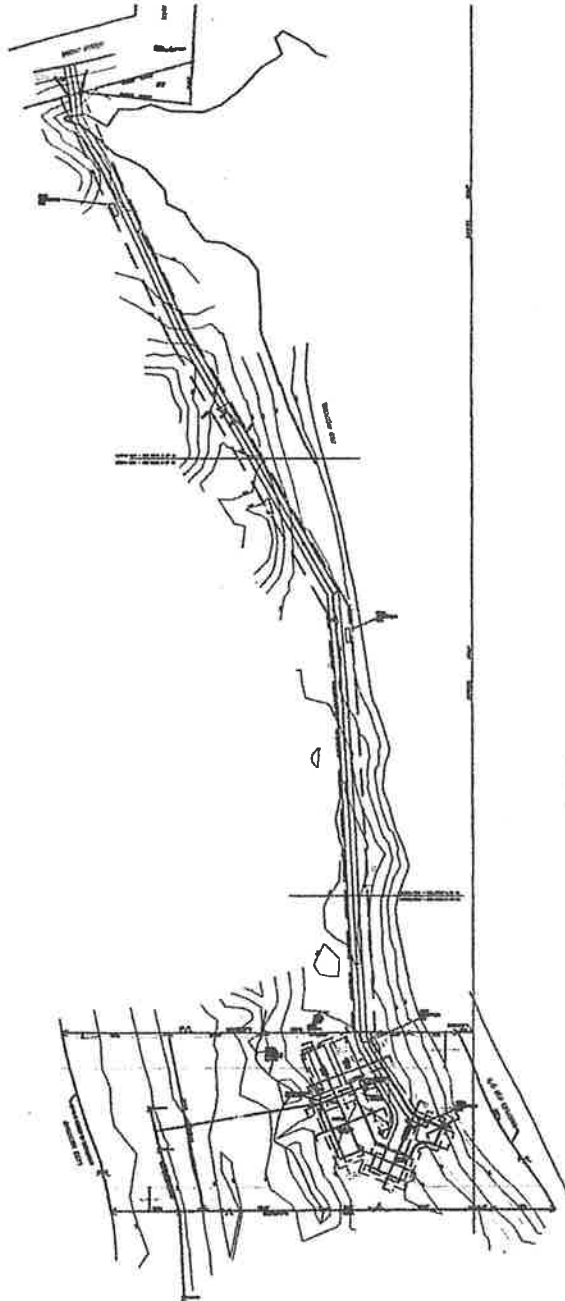


Resource Planning & Design, LLC  
 Environmental Planners & Consultants  
 105 W. Exchange Street, Spring Lake, Michigan 49456  
 Phone (616) 846-0620 Fax (616) 844-6079  
 Specializing in Conservation Design & Open Space Planning

LOCATION MAP  
 BILL GEZON  
 T11N, R18W, SECTION 2  
 WHITE RIVER TOWNSHIP  
 MUSKEGON COUNTY, MICHIGAN

SCALE: NTS  
 DATE: DECEMBER 2012  
 FILE: SITE2012.dwg  
 SHEET 1 OF 10





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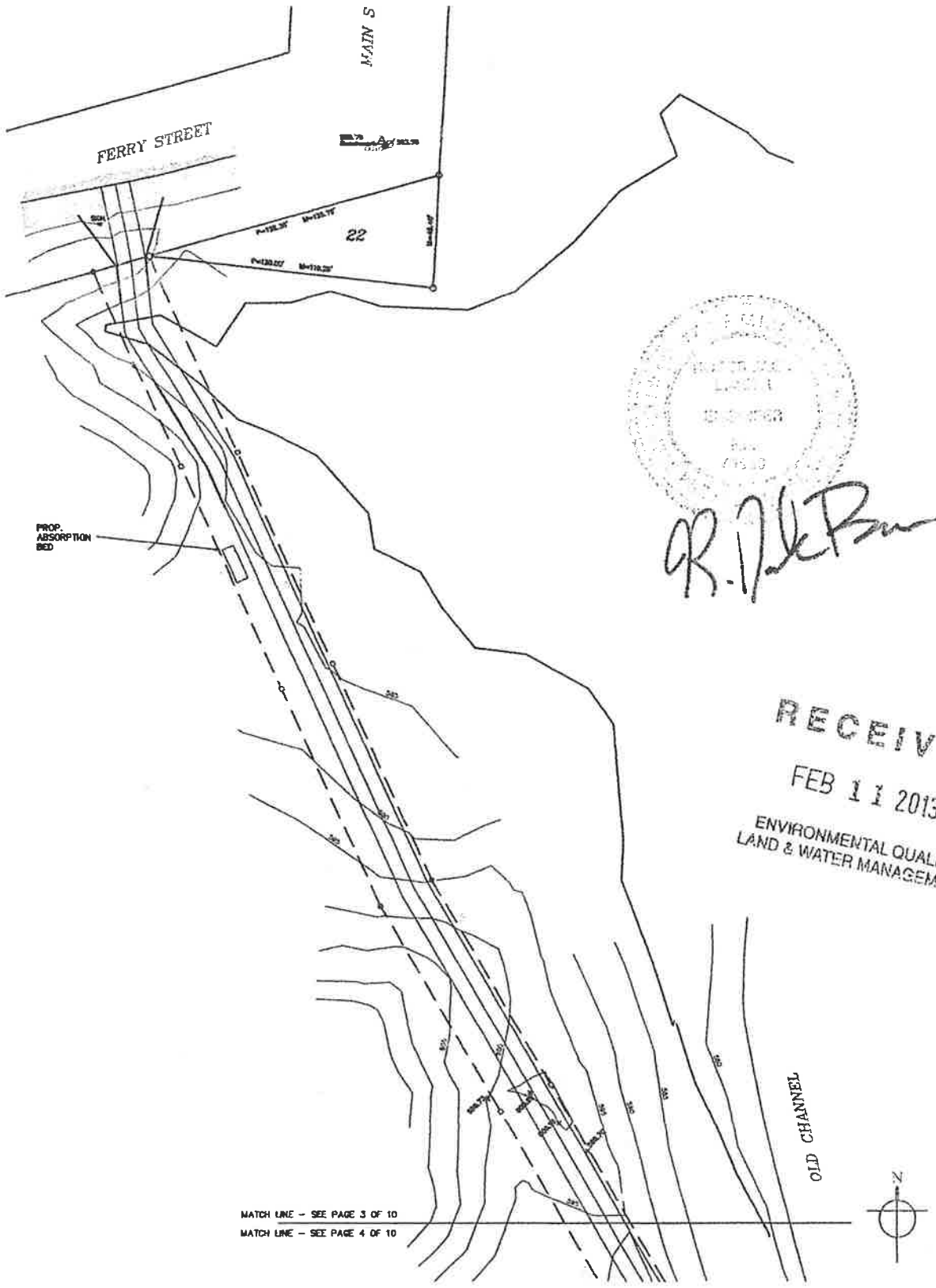
*Bill Gezon*



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**SITE PLAN**  
**BILL GEZON**  
 T11N, R18W, SECTION 2  
 WHITE RIVER TOWNSHIP  
 MUSKEGON COUNTY, MICHIGAN

SCALE: 1" = 200'  
 DATE: DECEMBER 2012  
 FILE: SITE2012.dwg  
 SHEET 2 OF 10

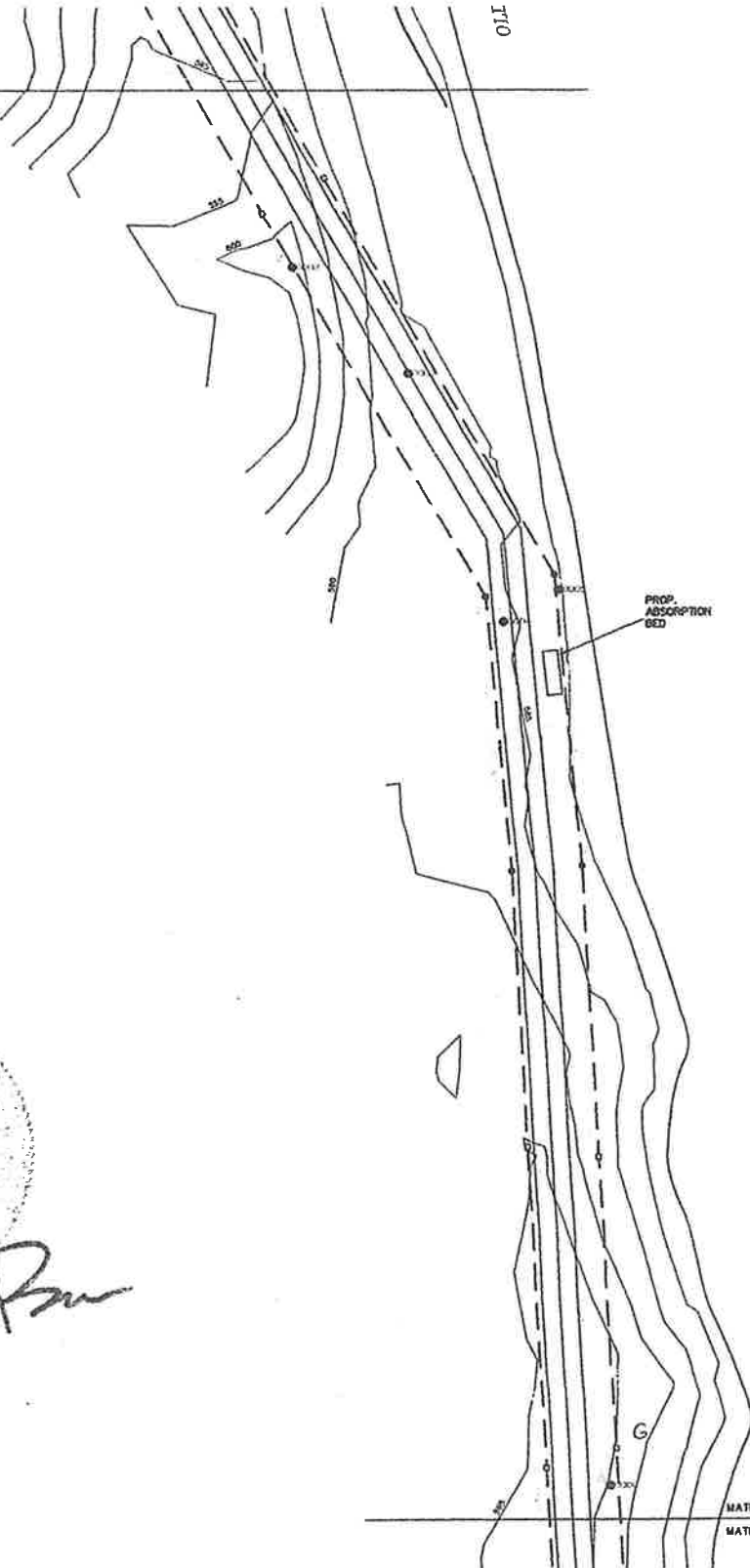


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**SITE DETAIL - NORTH**  
**BILL GEZON**  
 T11N, R18W, SECTION 2  
 WHITE RIVER TOWNSHIP  
 MUSKEGON COUNTY, MICHIGAN

SCALE: 1" = 60'  
 DATE: DECEMBER 2012  
 FILE: SITE2012.dwg  
 SHEET 3 OF 10

MATCH LINE -- SEE PAGE 3 OF 10  
MATCH LINE -- SEE PAGE 4 OF 10



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ABSORPTION  
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*Bill Gezon*

MATCH LINE -- SEE PAGE 4 OF 10  
MATCH LINE -- SEE PAGE 5 OF 10



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Environmental Planners & Consultants  
105 W. Exchange Street, Spring Lake, Michigan 49456  
Phone (616) 846-0620 Fax (616) 844-6079  
*Specializing in Conservation Design & Open Space Planning*

**SITE DETAIL - MIDDLE**  
**BILL GEZON**  
T11N, R18W, SECTION 2  
WHITE RIVER TOWNSHIP  
MUSKEGON COUNTY, MICHIGAN

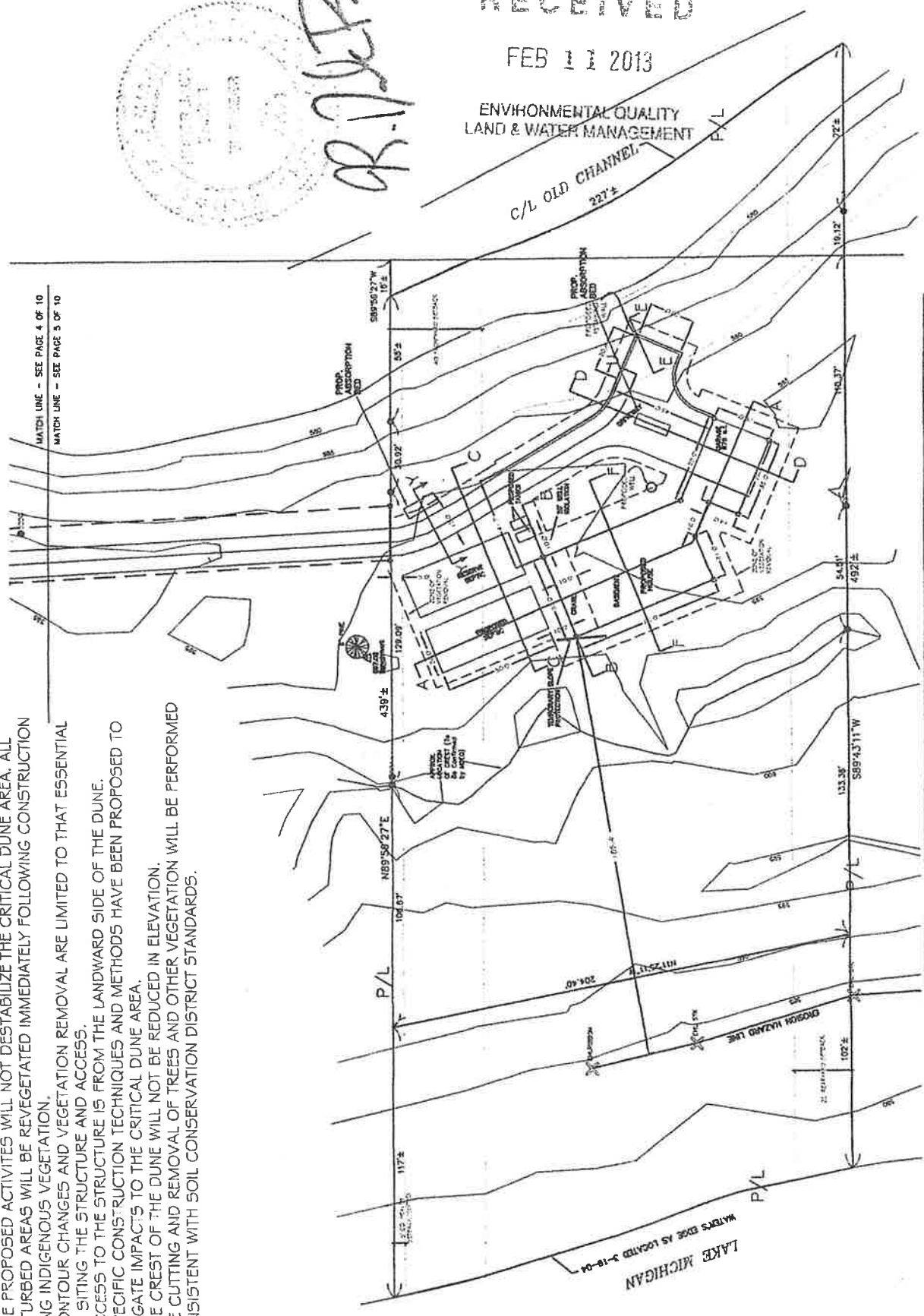
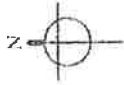
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DATE: DECEMBER 2012  
FILE: SITE2012.dwg  
SHEET 4 OF 10

- THE PROPOSED ACTIVITIES WILL NOT DESTABILIZE THE CRITICAL DUNE AREA. ALL DISTURBED AREAS WILL BE REVEGETATED IMMEDIATELY FOLLOWING CONSTRUCTION USING INDIGENOUS VEGETATION.
- CONTOUR CHANGES AND VEGETATION REMOVAL ARE LIMITED TO THAT ESSENTIAL FOR SITING THE STRUCTURE AND ACCESS.
- ACCESS TO THE STRUCTURE IS FROM THE LANDWARD SIDE OF THE DUNE.
- SPECIFIC CONSTRUCTION TECHNIQUES AND METHODS HAVE BEEN PROPOSED TO MITIGATE IMPACTS TO THE CRITICAL DUNE AREA.
- THE CREST OF THE DUNE WILL NOT BE REDUCED IN ELEVATION.
- THE CUTTING AND REMOVAL OF TREES AND OTHER VEGETATION WILL BE PERFORMED CONSISTENT WITH SOIL CONSERVATION DISTRICT STANDARDS.



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DATE: DECEMBER 2012  
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SITE DETAIL - SOUTH  
BILL GEZON  
T11N, R18W, SECTION 2  
WHITE RIVER TOWNSHIP  
MUSKEGON COUNTY, MICHIGAN

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Environmental Planners & Consultants  
105 W. Exchange Street, Spring Lake, Michigan 49456  
Phone (616) 846-0620 Fax (616) 844-6079  
Specializing in Conservation Design & Open Space Planning

BASE MAP PROVIDED BY: NEDERVELD ASSOCIATES



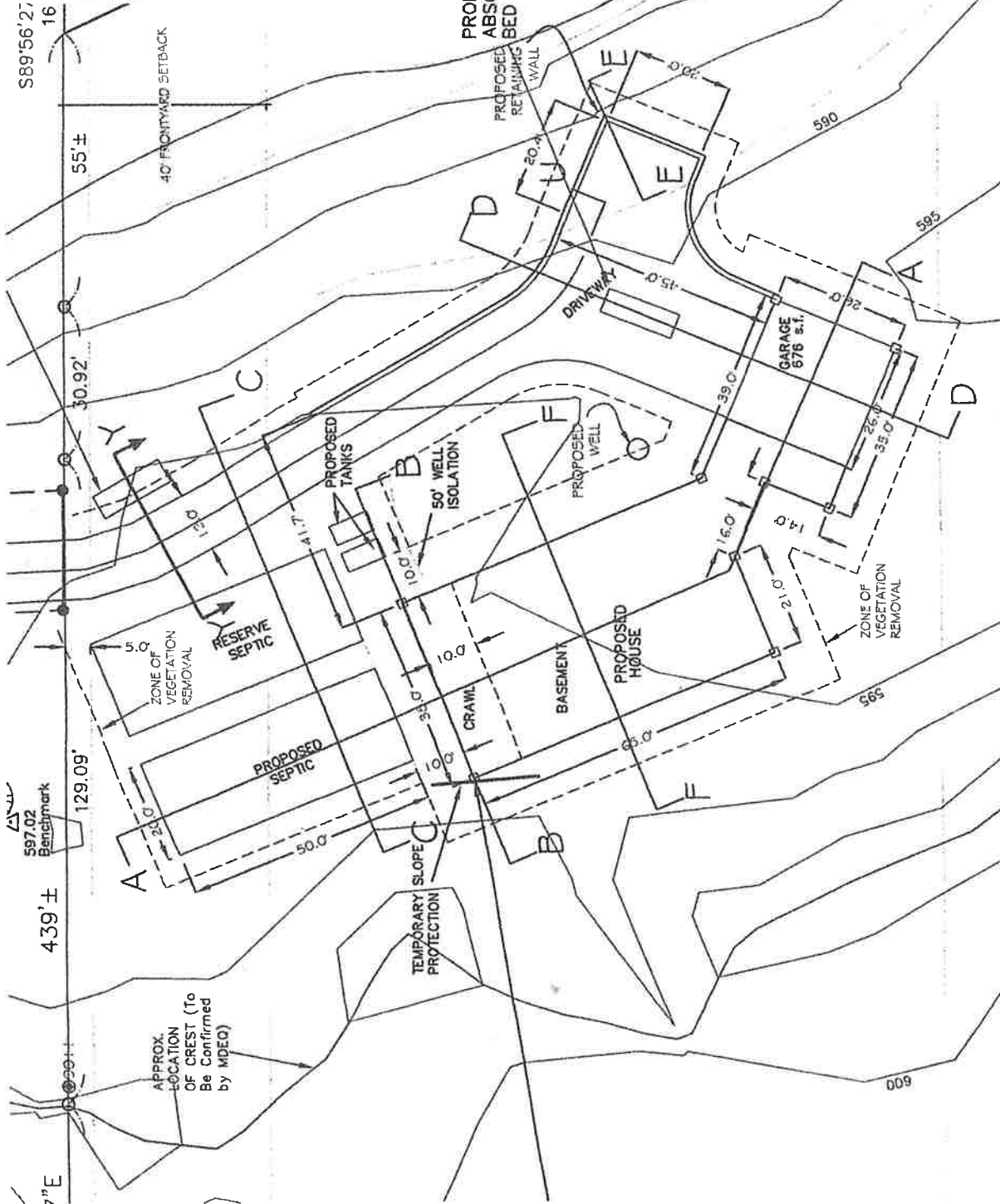
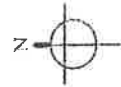
*R. J. [Signature]*

C/L OLD CHA...  
227'±

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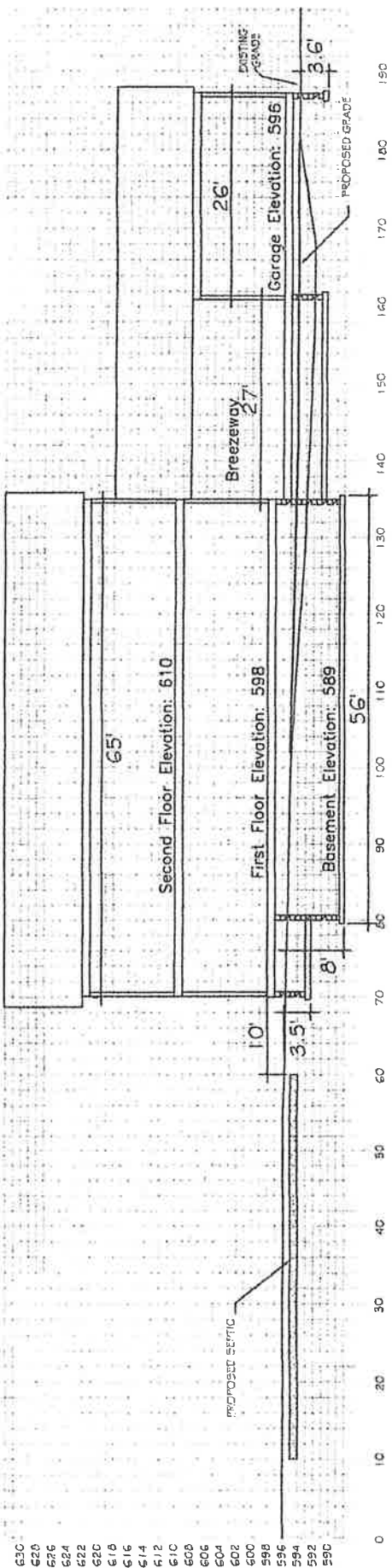


SCALE: 1" = 30'  
DATE: DECEMBER 2012  
FILE: SITE2012.dwg  
SHEET 6 OF 10

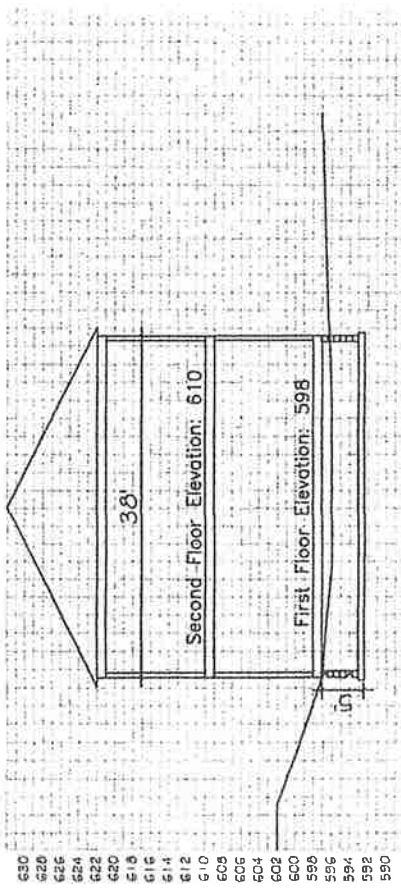
**SITE DETAIL - SOUTH**  
**BILL GEZON**  
T11N, R18W, SECTION 2  
WHITE RIVER TOWNSHIP  
MUSKEGON COUNTY, MICHIGAN

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105 W. Exchange Street, Spring Lake, Michigan 49456  
Phone (616) 846-0620 Fax (616) 844-6079  
*Specializing in Conservation Design & Open Space Planning*

BASE MAP PROVIDED BY: NEDERVELD ASSOCIATES



**LOT CROSS SECTION AA**  
SCALE: 1" = 20'



**LOT CROSS SECTION BB**  
SCALE: 1" = 20'



*R. J. [Signature]*

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SCALE: AS SHOWN  
DATE: DECEMBER 2012  
FILE: SITE2012.dwg  
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**CROSS SECTIONS - LOT**  
**BILL GEZON**  
T11N, R18W, SECTION 2  
WHITE RIVER TOWNSHIP  
MUSKEGON COUNTY, MICHIGAN

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**Environmental Planners & Consultants**  
105 W. Exchange Street, Spring Lake, Michigan 49456  
Phone (616) 846-0620 Fax (616) 844-6079  
*Specializing in Conservation Design & Open Space Planning*



610  
608  
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590

PROPOSED SEPTIC

RESERVE SEPTIC



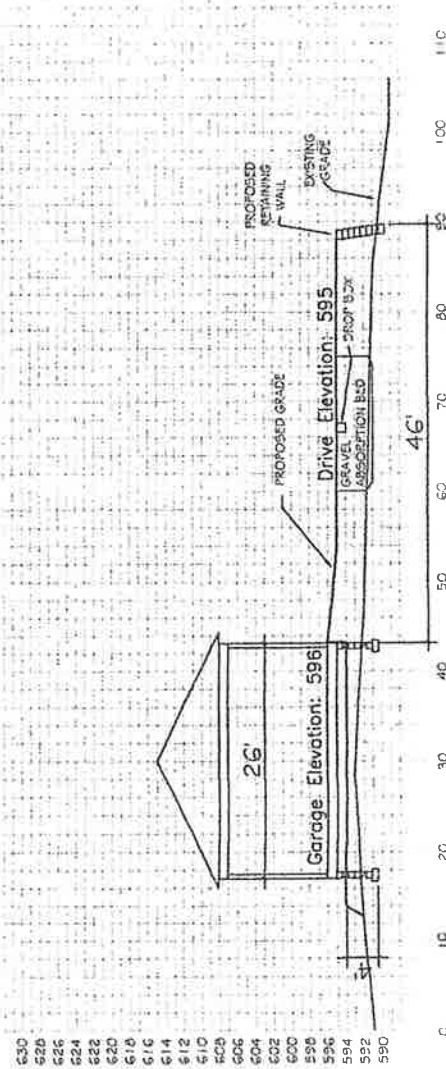
4" DIAMETER DRAIN  
HOSE IN GRAVEL

Septic Elevation: 596

0 10 20 30 40 50 60 70 80 90

**LOT CROSS SECTION CC**

SCALE: 1" = 10'



**LOT CROSS SECTION DD**

SCALE: 1" = 20'

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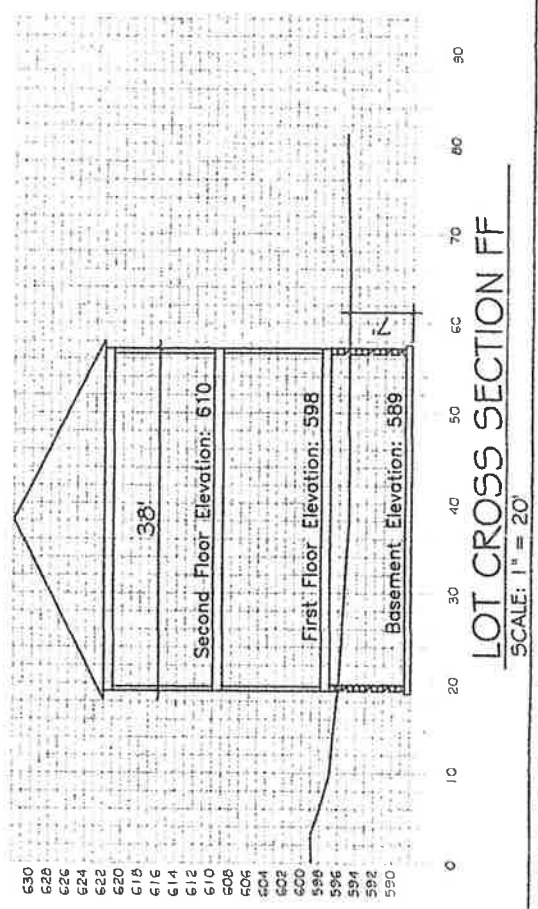
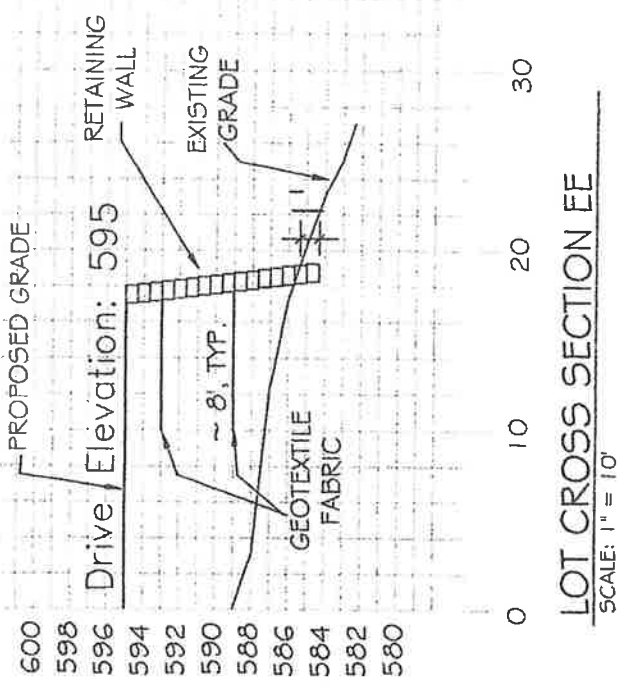
**CROSS SECTIONS - LOT**  
**BILL GEZON**  
T11N, R18W, SECTION 2  
WHITE RIVER TOWNSHIP  
MUSKEGON COUNTY, MICHIGAN

SCALE: AS SHOWN  
DATE: DECEMBER 2012  
FILE: SITE2012.dwg  
SHEET 8 OF 10



**R. J. J. ENVIRONMENTAL**  
FEB 11 2013  
ENVIRONMENTAL QUALITY  
LAND & WATER MANAGEMENT

*R. J. J.*



*R. J. [Signature]*

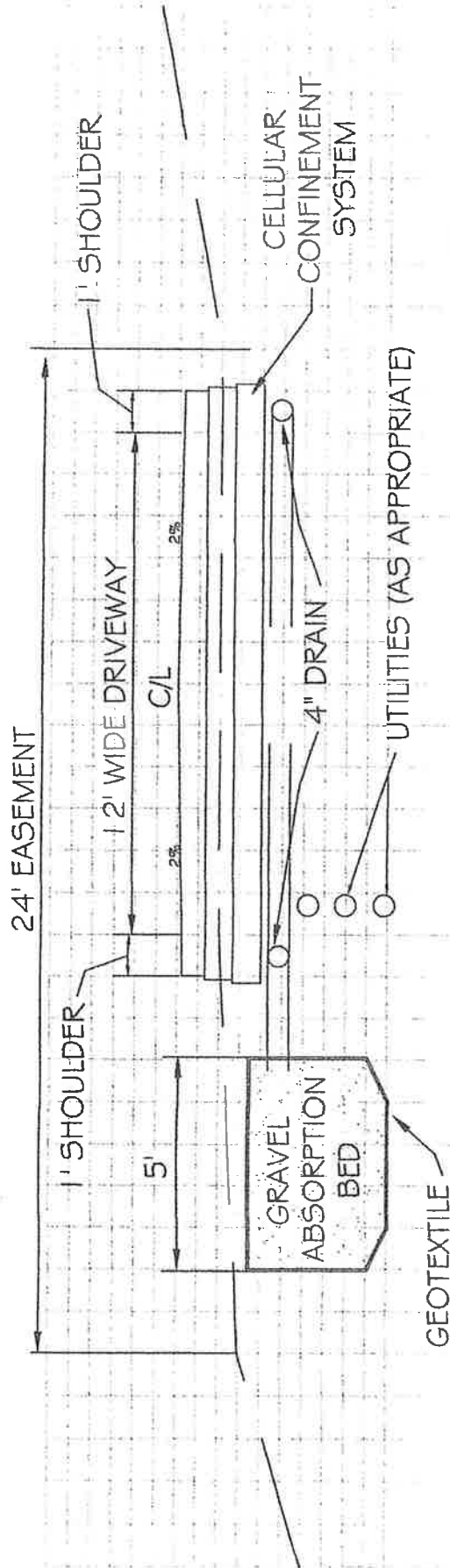
RECEIVED  
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 LAND & WATER MANAGEMENT

SCALE: AS SHOWN  
 DATE: DECEMBER 2012  
 FILE: SITE2012.dwg  
 SHEET 9 OF 10

CROSS SECTIONS - LOT  
 BILL GEZON  
 T11N, R18W, SECTION 2  
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TYPICAL ABSORPTION BED



R. J. K. B.

SCALE: NTS  
 DATE: DECEMBER 2012  
 FILE: SITE2012.dwg  
 SHEET 10 OF 10

CROSS SECTION - LOT  
 BILL GEZON  
 T11N, R18W, SECTION 2  
 WHITE RIVER TOWNSHIP  
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**Critical Dune Vegetation Removal Assurance  
APPLICATION**

**Estimated Project Time Frame:**

Start Date	
End Date	

**Project Location:**

Address: "0" Ferry St.	County: Muskegon	Subdivision/Plot:	Lot Number:
Township: White River Township	Town/Range: 11 N / 18 W	Section: 2	

**Applicant Information:**

Applicant or Agent: Phil Johnson		Company Name: Resource Planning & Design, LLC	
Mailing Address: 105 W. Exchange St.			
City: Spring Lake	State: MI	Zip Code: 49456	
Daytime Phone Number: 616-846-0620	Fax Number: 616-844-6079	E-mail Address: johnsonphilip@sbcglobal.net	

**Property Owner (if different from Applicant)**

Property Owner William Gezon		
Mailing Address: 2464 Pinewood		
City: Jenison	State: MI	Zip Code: 49428
Daytime Phone Number: 616-813-1726	Fax Number:	E-mail Address:

Contractor:	Address:		
City:	State:	Zip:	Phone:
Excavator:	Address:		
City:	State:	Zip:	Phone:

**Project Description**

*Please provide a brief description of proposed activities including impacts to vegetation:*

**Construction of house, garage, driveway (including turn-around), and installation of septic system.**

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**Driving directions from District office:**

Assurance: (section to be completed by the Conservation District staff)

The Conservation District must have assurances that the cutting and removal of trees and other vegetation, as well as planting/stabilizing, will be performed according to District recommendations and site plan modifications listed below.

The Muskegon Conservation District visited the site with agents to review and provide updated comments to a vegetation removal assurance issued by our office on March 28, 2005. Area of disturbance will be contained within roadway easement and building footprint (including house, garage, and septic system). Total number of trees removed for project is 83, along with 5 significant shrub clusters, and include:

- White pine (*Pinus strobus*) - 22
- Red oak (*Quercus rubra*) - 13
- Black cherry (*Prunus serotina*) - 6
- Red pine (*Pinus resinosa*) - 19
- Scotch pine (*Pinus sylvestris*) - 5
- Tamarack (*Larix laricina*) - 2
- American beech (*Fagus grandifolia*) - 1
- Red Maple (*Acer rubrum*) - 15
- Sand Cherry (*Prunus pumila*) - shrub cluster
- Ground Juniper (*Juniperus communis*) - shrub cluster
- Red-osier dogwood (*Cornus stolonifera*) - shrub cluster

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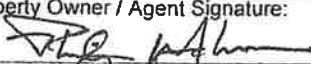

1. All trees (83) and shrubs clusters (5) will be replaced one for one with any of the native species listed above (which does not include scotch pine) at a similar diversity and proportion of deciduous to coniferous trees ~ 50%. Other appropriate native species may be substituted with species listed below to increase diversity.

- Sugar maple (*Acer saccharum*)
- Jack Pine (*Pinus banksiana*)
- Eastern red cedar (*Juniperus virginiana*)
- Black Oak (*Quercus velutina*)
- Northern white cedar (*Thuja occidentalis*)
- Eastern hemlock (*Tsuga Canadensis*)
- American basswood (*Tilia Americana*)

2. Tamaracks will be replaced one for one in an appropriate location.
3. Shrub clusters must be replaced at a density of 5 individual plants / cluster at a 6' X 6' spacing within the cluster.
4. Conifers will be planted with 8' spacing and deciduous trees with 10' spacing. Trees will be transplants or "whips", with at least a 3' minimum height.
5. Native grasses and wildflowers, including marram grass (*Ammophila breviligulata*) will be planted to stabilize all disturbed areas immediately following completion.

**Assurance Agreement: (do not sign prior to Conservation District site review)**

Your signature indicates that you have reviewed and understand the assurance guidelines provided and agree to follow the best management practices and any additional recommendations provided by the Conservation District.

Property Owner / Agent Signature: 	Printed Name: Philip M Johnson
Title: Agent	Date: 2/1/13
Conservation District Representative: 	Printed Name: Jeff Auch
Title: Executive Director	Date: 16 January 2008

MUSKEGON COUNTY DEPARTMENT OF PUBLIC WORKS  
SOIL EROSION AND SEDIMENTATION CONTROL (SESC)

131 E. APPLE AVENUE  
MUSKEGON, MI 49442  
PHONE: 231-724-6411  
FAX: 231-724-6118

EMAIL: [finkst@co.muskegon.mi.us](mailto:finkst@co.muskegon.mi.us)

PROPERTY OWNER: Bro-G Land Company c/o William Gezon

MAILING ADDRESS: 2464 Pinewood Jenison, MI 49428

PHONE NO.: 616-813-1726

PROJECT DESCRIPTION: Construction of single family home and driveway easement access

PROJECT ADDRESS: "O" Ferry Street

TOWNSHIP OR CITY: White River Township

PROJECT PARCEL NO.: 61-01-002-100-0005-00

THIS PROJECT:

- Will be considered for/issued a permit after the Critical Dune Permit is issued.
- Will be considered for/issued a permit after the Natural Rivers zoning has been issued.
- Will be considered for/issued a permit after township zoning is obtained.
- Does not require a SESC permit because:
  - it is over 500 feet from water and less than 1 acre of disturbance
  - there is no earth disruption
  - there is less than 225 square feet of earth disruption
  - meets requirements of Part 91, Section 324.9115a for residential properties only

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This written assurance form does not release the project from obtaining other applicable local, state or federal permits.

If project does not require an SESC permit, the owner/agent is required to use best management practices to prevent any sediment from leaving the site.

Department Approval Stamp:

Dated: December 10, 2012

APPROVED FOR  
SOIL EROSION CONTROL ONLY  
*Stacy J. Fink*  
MUSKEGON COUNTY  
DEPT. OF PUBLIC WORKS  
DATE: See date to left.

**SEWAGE DISPOSAL SYSTEM PERMIT**  
**PUBLIC HEALTH MUSKEGON COUNTY - ENVIRONMENTAL HEALTH DIVISION**

Permit Number: 8394

PHONE: (231)724-6208 [www.muskegonhealth.net](http://www.muskegonhealth.net)

Contact/Location Information David Pollock / William Beyon

**PERMIT CONDITIONS**

**CALL PHMC for Final Inspection PRIOR to Backfilling**

TANK SIZE in gallons (1<sup>ST</sup>) 1000 (2<sup>ND</sup>) 1000  
 FILTER REQUIRED  YES  NO  
 SEEPAGE BED in square feet 1000  
 DRYWELL/BLOCK TRENCH in feet 50 (5 units)  
 GRAVEL TRENCHES/OTHER NO

ISOLATION DISTANCES, minimum distance in feet to tank(s) and absorption system.  
 WATER WELL(S): 50'  
 FOOTING DRAINS: 25'  
 SURFACE WATER: 75'

BOTTOM OF STONE SHALL BE NO DEEPER THAN N/A INCHES BELOW ORIGINAL GRADE.  
 REMOVE SOD/VEGETATION, REPLACE WITH CLEAN FILL SAND TO A MINIMUM OF 12" INCHES ABOVE ORIGINAL GRADE (see elevation identified below).

ADDITIONAL INSTALLATION REQUIREMENTS: FEB 13 2013

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APPROVED SYSTEM LOCATION 40'S, 125' W of the NE corner of the house.  
 Prior approval MUST be obtained before installing in any other location.

ELEVATION IDENTIFIED FROM ↓  
 RESERVE AREA LOCATION\* west of the initial system.  
 \*Allow room for reserve area.

SANITARIAN Adam Kosera PHONE NUMBER 724, 1257 DATE 17 Dec 12

**SITE EVALUATION**

LOCATION INFORMATION: Life Guard  
 HOME  COMMERCIAL  NEW CONSTRUCTION  REPLACEMENT  ADDITION  
 DRYWELL RESTONE  SEPTIC TANK

BORING #1  
 WT. > 84"  
 SHWT. > 84"  
 DEPTH TEXTURE  
0-84" M. Sand  
 TOPSOIL:

BORING #2  
 WT. \_\_\_\_\_  
 SHWT. \_\_\_\_\_  
 DEPTH TEXTURE  
 TOPSOIL: \_\_\_\_\_  
 SLOPE:  n/a  Yes on site diagram  
 NOTES: \_\_\_\_\_

SOIL TEXTURES: GRAVEL; COARSE, MEDIUM, FINE SAND;  
 SANDY LOAM (SL); LOAM; SILT; SANDY CLAY (SC)

SUBDIVISION SITING REQUIREMENTS Y  N  
 COPY OF DEED RESTRICTIONS TO FILE Y  N  
Adam Kosera 17 Dec 12  
 SANITARIAN DATE

CONSTRUCTION DETAILS: \_\_\_\_\_

CONSTRUCTION INSPECTION BY \_\_\_\_\_ DATE \_\_\_\_\_

**FINAL INSPECTION**

See As Built Drawing for Locations

SEWER LINE FROM HOUSE TO TANK  
 SEPTIC TANK(S)  
 FINAL DISPOSAL  
 PERIMETER FILL SAND  
 CONSTRUCTION DETAILS MET  
 RESERVE AREA  
 BACKFILL DEPTH \_\_\_\_\_  
 ISOLATION TO WELL \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 INSTALLER \_\_\_\_\_  
 INSTALLATION APPROVED YES NO  
 \_\_\_\_\_  
 SANITARIAN DATE

Approval of plan and the installation cannot be considered as a guarantee by the Health Department that successful operation is assured. Regulations are subject to change. Permit expires two (2) years from the date issued.

WHITE COPY - PHMC      YELLOW COPY - TO APPLICANT      COPY OF FINAL TO OWNER      6201-10(3/12)

ADDRESS: Life Guard  
 TOWNSHIP: White River

# WATER WELL SUPPLY PERMIT

Permit Number: 1456

In accordance with Act 368 P.A. 1978 & Muskegon Sanitary Code

## PUBLIC HEALTH MUSKEGON COUNTY - ENVIRONMENTAL HEALTH DIVISION

PHONE: (231)724-6208

www.muskegonhealth.net

Contact/Location Information

David Pollock / William Cozen

Lenny St / Lifeguard

### PERMIT CONDITIONS

Contact PHMC for Final Inspection and Sample Collection.

Pump and Electrical Connection Required to Complete Final Inspection.

50 (ft) Required Isolation Distance to all Sewage Disposal Components, including but not limited to: sump pits, sewer lines, pump chambers, tanks, drywells and drainfields.

~~0~~ (ft) Required Isolation Distance to \_\_\_\_\_

Minimum Required Casing Depth 25 feet Area wells are generally between 48 feet and 133 feet deep.

ALL EXISTING UNUSED WELLS must be properly abandoned and the required abandonment log submitted for final well approval.

DISCHARGE OF WATER TREATMENT AND/OR SOFTENER BACKWASH into an onsite sewage disposal system is prohibited.

ADDITIONAL PERMIT CONDITIONS: Iron = 0 - 0.1 mg/L

ISSUED BY SANITARIAN

Adam Rosema

PHONE NUMBER

724. 1257

DATE

17 Dec 12

### SITE EVALUATION

TEST BORING PRIOR TO PERMIT	Y	N	NA	UNK	DEPTH RESTRICTIONS (SUBDIVISION)	Y	N	NA	UNK
AREA WELL LOG SEARCH	(Y)	(N)			ISOLATION DISTANCES SPECIFIED	(Y)	(N)	(NA)	
AREA WATER QUALITY REVIEW	(Y)	(N)	NA		ABANDONED WELLS TO BE PLUGGED	(Y)	(N)	(NA)	UNK
KNOWN W/Q PROBLEMS IN AREA	Y	(N)	NA	UNK	PREDRILLING SITE REVIEW COMPLETED	(Y)	(N)	NA	
KNOWN SITES OF CONTAMINATION	Y	(N)	NA	UNK	COPY OF DEED RESTRICTIONS TO FILE	Y	(N)	(NA)	
KNOWN SHALLOW WELL AREA	Y	(N)	NA						

EVALUATION BY

(Signature)

DATE 17 Dec 12

### FINAL INSPECTION - FOR LOCATION SEE AS BUILT DRAWING

WELL LOCATION APPROVED (1621; 1622; 1624; 1626)	Y	N	COMPONENTS APPROVED	Y	N
PROTECTED FROM CONTAMINATION	Y	N	Pump Location (1651)	Y	N
Well Cap Vented (deep well/single pipe packer, 1657)	Y	N	Pressure Tank Location (1656)	Y	N
Suction Line Protected (1654)	Y	N	Pressure Relief Valve (1657)	Y	N
Casing Grouted (1633; 1634; 1635)	Y	N	Electrical Conduit/Connections	Y	N
Well Casing Termination Approved (1632; 1638; 1641; 1642)	Y	N	Sampling Tap (1659)	Y	N
WELL CONSTRUCTION SATISFACTORY (1626; 1627; 1631; 1632; 1639)	Y	N	Cross Connections (Yard Hydrants, 1674)	Y	N
WELL PLUGGING RECORD/METHOD IN ORDER (1662; 1663; 1664; 1667; 1668; 1669)	NA	Y	Other:		
ISOLATION FROM SEPTIC SYSTEM (1621; 1622)		feet	DATE WELL RECORD REC. (1676)		

TEST RESULTS	DATE COLLECTED	RESULTS	DATE COLLECTED	RESULTS (ppm)
Bacteriologic (1 <sup>st</sup> )				Nitrate (1 <sup>st</sup> )
Bacteriologic (2 <sup>nd</sup> )				Nitrate (2 <sup>nd</sup> )

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WATER WELL SUPPLY APPROVED? YES NO

SANITARIAN

DATE

Approval of plan and the installation cannot be considered as a guarantee by the Health Department that successful operation is assured. Regulations are subject to change. Permit expires two (2) years from the date issued.

WHITE COPY - PHMC

YELLOW COPY - INITIAL TO APPLICANT

XEROX FINAL TO OWNER

WELLPERMIT 6201-15 (REV 8-11)

ADDRESS: Lifeguard

TOWNSHIP: White River