

**State of Michigan  
Department of Environmental Quality**

Water Resources Division  
Gaylord Field Office  
2100 West M-32  
Gaylord MI, 49735-9282  
989-731-4920

File Number 13-05-0069-P

Date: January 10, 2014

**PUBLIC NOTICE**

Dennis and Nancy Schreur, 9470 Eastern Avenue , Byron Center, Michigan 49315, has applied to this office for a permit under authority of Part 301, Inland Lakes and Streams, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. The applicants propose to construct a new four slip boathouse, boat well, permanent dock, and place sand/peastone for a swim area on Clam Lake at 6833 Crystal Springs Road. The purpose of the project is to provide permanent covered wharfage, temporary boat mooring, and access for swimming. The boat well will require dredging of 150 cubic yards of material below the ordinary high water mark from an area 64 feet long by 32 feet wide to a depth of 2 feet. An additional 300 cubic yards of material will be excavated landward of the ordinary high water mark, from an area 64 feet long by 28 feet wide to a depth of 6 feet. The four slip boat house will be 64 feet long by 40 feet wide. A 52-foot long by 6-foot wide permanent open pile dock will be constructed adjacent to the boat house. 29 cubic yards of 50 percent sand and 50 percent peastone will be discharged to an area 40 feet long by 20 feet wide to a depth of 6 inches for creation of a swim area. The project is located in T29N, R8W, Section 4, Helena Township, Antrim County, Michigan.

**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 or over the inland waters of the State of Michigan, pursuant to Part 301, Inland Lakes and Streams, 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.

Those persons wanting to make comments on the proposed project shall furnish this office with their written comments no later than 20 days from 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 is filed with the department within the 20-day public comment period, the department may make a decision on the 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 (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](mailto:deq-wrd-jointpermit@michigan.gov).

cc: Dennis and Nancy Schreur, applicant  
DNR, Wildlife, Mark Monroe  
Antrim County Clerk  
Antrim County Drain Commissioner  
Local Postmaster  
The Watershed Center Grand Traverse Bay  
Three Lakes Association  
Dan Campbell  
DEQ, RRD Sites 5-34, 36, and 100  
History Division

DNR, Fisheries, Heather Hettinger  
Antrim County Health Department  
Helena Township Clerk  
Antrim Conservation District  
Tip of the Mitt Watershed Council  
Friends of Clam Lake  
Crystal Rose Group LLC.  
Department of State History  
Advanced GPS & GIS, agent  
DEQ, District Coordinator, Phil Roycraft



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DEQ File Number

13-05-0019

Fee received \$

500.00 *ck*

AGENCY USE	Previous USACE File Number
	USACE File Number

Date Received

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) <b>6833 Crystal Springs Rd.</b>	Zip Code <b>49615</b>	Municipality (Township/Village/City) <b>Helena Township</b>	County <b>ANTRIM</b>
Property Tax Identification Number(s) <b>05-08-004-049-00</b>	Latitude _____ N		Township/Range/Section (TRS) T <b>29</b> N or S; R <b>8r</b> W;
Subdivision/Plat and Lot Number	Longitude - _____ W		Sec <b>4</b> OR Private Claim # _____

**2 Applicant and Agent Information**

Owner/Applicant (individual or corporate name) <b>DENNIS &amp; NANCY SCHREUR</b>	Agent/Contractor (firm name and contact person) <u>REPRESENTATIVE</u> <b>ADVANCED GPS &amp; GIS EDWIN MARTEL</b>
Mailing Address <b>9470 EASTERN AVE.</b>	Mailing Address <b>3535 GRAY LANE</b>
City <b>BYRON CENTER</b> State <b>MI</b> Zip Code <b>49315</b>	City <b>EAST JORDAN</b> State <b>MI</b> Zip Code <b>49727</b>
Contact Phone Number _____ Fax _____	Contact Phone Number <b>231 544 2058</b> Fax _____
Email _____	E-mail <b>wetlandsagg@aol.com</b>

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 <b>COVERED WHARFAGE (BOAT HOUSE)</b>	Preapplication File Number - - -P
Name of Water body <b>CLAM LAKE</b>	Date project staked/flagged <b>PROJECT IS STAKE AND FLAGGED</b>

<p>The proposed project is on, within, or involves (check all that apply)</p> <p><input checked="" type="checkbox"/> an inland lake (5 acres or more) <input type="checkbox"/> a Great Lake or Section 10 Waters</p> <p><input type="checkbox"/> a pond (less than 5 acres) <input type="checkbox"/> a wetland</p> <p><input type="checkbox"/> a stream, river, ditch or drain <input type="checkbox"/> a 100-year floodplain</p> <p><input type="checkbox"/> a legally established County Drain <input type="checkbox"/> a dam</p> <p>Date Drain was established _____ <input type="checkbox"/> a designated high risk erosion area</p> <p><input type="checkbox"/> a channel/canal <input type="checkbox"/> a designated critical dune area</p> <p><input type="checkbox"/> 500 feet of an existing water body <input type="checkbox"/> a designated environmental area</p>	<p>Project Use</p> <p><input type="checkbox"/> private</p> <p><input type="checkbox"/> commercial</p> <p><input type="checkbox"/> public/government</p> <p><input type="checkbox"/> project is receiving federal/state transportation funds</p> <p><input type="checkbox"/> Wetland Restoration</p> <p><input type="checkbox"/> other</p>
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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 PART 301 **FOUR SLIP COVERED WHARFAGE / RIPARIAN STORAGE, PART 301 BEACH SANDING, MINOR DREDGING, EXCAVATION OF UPLAND, STABLIZE EXISTING RIP-RAP, DOCK.**

Construction Sequence and Methods **SOIL EROSION MEASURES IN PLACE, EXCAVATE, DREDGE, CONSTRUCT PILING, IBEAM AND FOUNDATION COMPONENTS, CONSTRUCT MAIN STRUCTURE, LAY GEO CLOTH FOR BEACH SANDING, AND COVER WITH PEA STONE. CONSTRUCT DOCK OPEN PILINGS.**



<b>4 Project Purpose, Use and Alternatives</b> <i>Attach additional sheets as necessary.</i>					
Describe the purpose of the project and its intended use; include any new development or expansion of an existing land use. <b>PERMANENT COVERED WHARFAGE, TO PROTECT, SECURE, AND TO SUPPLY RIPARIAN STORAGE. BEACH SANDING DOWN TO THE WATERS EDGE. BEACH SANDING IN THE WATER FOR SWIMMING AND BATHING, 52 FT. DOCK FOR TEMPORARY MORING.</b>					
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. <b>TO MINIMIZE IMPACTS, PROPOSED STRUCTURE WILL BE RESESSED 25' TO 28' INTO EXISTING UPLAND AND IS CANTILEVERED OVER THE WATER. NO PILINGS PROPOSED BEYOND OHWM.</b>					
<b>5 Locating Your Project Site</b> <i>Attach a legible black and white map with a North arrow.</i>					
Names of roads of closest intersection <b>CRYSTAL SPRINGS RD. &amp; SE TORCH LAKE DRIVE.</b>					
Directions from main intersection to the project site, with distances from the best and nearest visible landmark and water body <b>HEAD SE ON CRYSTAL SPRINGS RD TO 6833 TURN INTO DRIVE. JUST DOWN THE ST. FROM DEWITT MARINA</b>					
Description of buildings on the site ( <i>color; 1 or 2 story, other</i> ) <b>SINGLE STORY WITH ATTACHED GARAGE</b>			Description of adjacent landmarks or buildings ( <i>address; color; etc</i> ) <b>NEIGHBOR NW BOAT HOUSE NEW SEA WALL SE NEIGHBOR</b>		
How can your site be identified if there is no visible address? <b>ON, THERE IS A VISIBLE ADDRESS on THE HOUSE</b>					
<b>6 Easements and Other Permits</b>					
<input checked="" type="checkbox"/> No <input type="checkbox"/> 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.					
<b>Agency</b>	<b>Type of Approval</b>	<b>Number</b>	<b>Date Applied</b>	<b>Date approved /denied</b>	<b>Reason for denial</b>
<b>SOIL EROSION</b>	<b>EXPECTED</b>				
<b>LOCAL ZONING</b>	<b>EXPEcTED</b>				
<b>7 Compliance</b>					
If a permit is issued, when will the activity begin? (M/D/Y) <b>ASAP</b>			Proposed completion date (M/D/Y) <b>ASAP</b>		
<input checked="" type="checkbox"/> No <input type="checkbox"/> 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). <input type="checkbox"/> No <input type="checkbox"/> Yes Were the regulated activities conducted under a DEQ and/or USACE permit? ➤ If Yes, list the permit numbers					
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Are you aware of any unresolved violations of environmental law or litigation involving the property? ➤ If Yes, attach explanation.					
<b>8 Adjoining Property Owners</b> <i>Provide current mailing addresses. Attach additional sheets/labels for long lists.</i>					
<input type="checkbox"/> Established Lake Board	Contact Person	Mailing Address	City	State and Zip Code	
<input type="checkbox"/> Lake Association					
List all adjoining property owners. If you own the adjoining lot, provide the requested information for the first adjoining parcel that is not owned by you.					
Property Owner's Name		Mailing Address	City	State and Zip Code	
<b>SEE ATTACHED</b>					

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

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 checked="" type="checkbox"/> Property Owner <input type="checkbox"/> Agent/Contractor <input type="checkbox"/> Corp. or Public Agency / Title	Printed Name <i>DENNIS SCHREUR</i>	Signature 	Date <i>11/3/13</i>
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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  bioengineered shore protection  boat ramp  boat well  bridge or culvert  crib dock  
 riprap  seawall  swim area  other

Dimensions of fill (ft)			Total volume (cubic yards)	Volume below OHWM (cubic yards)
Length	Width	Maximum Depth		
Maximum water depth in fill area (ft)			Area filled (sq ft)	Will filter fabric be used under proposed fill? <input 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 %  gravel %  other

Source of clean fill  commercial  on-site  other  
 ➤ If on-site, show location on site plan.  
 ➤ If other, attach description of location.

EXCAVATION

**B. PROJECTS REQUIRING DREDGING OR EXCAVATION** (See Sample Drawings)  
 • Refer to [www.mi.gov/jointpermit](http://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  boat ramp  boat well COMBO  bridge or culvert  maintenance dredge  
 navigation  pond/basin  other **COVERED WHARFAGE**

Dimensions (ft) EXCAVATION			Total volume (cu yds)	Volume below OHWM (cu yds)
Length 64	Width 28	Maximum Depth 6	EST 300	0 ZERO, SEE DRAWINGS
IN UPLAND, LANDWARD OF OHWM				

Has this same area been previously dredged?  No  Yes If Yes, provide date and permit number: **Received WRD/DEQ**

Will the previously dredged area be enlarged?  No  Yes If Yes, when and how much?

Is long-term maintenance dredging planned?  No  Yes If Yes, how often? **NOV 14 2013**

Dredge or Excavation Method  Hydraulic  Mechanical  other **GAYLORD FIELD OFFICE**

**Spoils Disposal**  
 Dredged or excavated spoils will be placed  on-site  landfill  USACE confined disposal facility  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?  
 No  Yes ➤ If Yes, provide test results with a map of sampling locations.

**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)				Volume(cu yd)
length	width	depth		
Riprap landward of the ordinary high water mark: dimensions (ft)				Volume(cu yd)
length	width	depth		

Type and size of riprap (inches)  
 field stone  angular rock  other

Will filter fabric or pea stone be used under proposed riprap?  
 No  Yes, Type



<input type="checkbox"/> <b>D. SHORE PROTECTION PROJECTS</b> (See EZ Guides and Sample Drawings 2, 3, and 17. Complete Sections 10A, B, and/or C.)			
➔ For bioengineering projects include the list of native plants/seeds, if available.			
Type and length (ft)	<input type="checkbox"/> bioengineering (ft)	<input type="checkbox"/> revetment (ft)	<input type="checkbox"/> riprap (ft) <input type="checkbox"/> seawall/bulkhead (ft)
Structure is	<input type="checkbox"/> new <input type="checkbox"/> repair <input type="checkbox"/> replacement of an existing structure	Will the existing structure be removed? <input type="checkbox"/> No <input type="checkbox"/> Yes	
Proposed Toe Stone (linear feet)		Distance of project from adjacent property lines (ft)	
Distance of project from an obvious fixed structure (example - 50 ft from SW corner of house)			
For bioengineering projects indicate the structure type <input type="checkbox"/> brush bundles <input type="checkbox"/> coir log <input type="checkbox"/> live stakes <input type="checkbox"/> tree revetment <input type="checkbox"/> other			
<input type="checkbox"/> <b>E. DOCK - PIER - MOORING PILINGS</b> (See Sample Drawing 10)			
➔ Attach a copy of the property legal description, mortgage survey, or a property boundary survey report.			
Dock Type <input checked="" type="checkbox"/> open pile <input type="checkbox"/> filled <input type="checkbox"/> crib <input type="checkbox"/> floating <input type="checkbox"/> cantilevered <input type="checkbox"/> spring piles <input type="checkbox"/> piling clusters <input type="checkbox"/> other			
Is the structure within the applicant's riparian area interest area? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes ➔ Show parcel property lines on the site plan.			
Proposed structure dimensions (ft) length <b>52</b> width <b>6</b> , <b>8' oc</b>		Use <input checked="" type="checkbox"/> private <input type="checkbox"/> public <input type="checkbox"/> commercial	
Dimensions of nearest adjacent structures (ft) length width		Distance of dock from adjacent property lines (ft) <b>74' NW COR.</b>	
<input type="checkbox"/> <b>F. BOAT WELL</b> (See EZ Guide. Complete Sections 10A and 10B)			
Dimensions (ft) length width depth <b>SEE ATTACHED</b>		Number of boats <b>4 SLIPS WITHIN BOATHOUSE/ COVERED WHARFAGE</b>	
Type of sidewall stabilization <input checked="" type="checkbox"/> concrete <input type="checkbox"/> riprap <input type="checkbox"/> steel <input type="checkbox"/> vinyl <input checked="" type="checkbox"/> wood <input type="checkbox"/> other			
Volume of backfill behind sidewall stabilization (cu yd)		Distance of COVERED WHARFAGE from adjacent property lines (ft) <b>10'</b>	
<input type="checkbox"/> <b>G. BOAT RAMP</b> (See EZ Guide. Complete sections 10A, 10B, and 10C for mattress and pavement fill, dredge, and riprap)			
Type <input type="checkbox"/> new <input type="checkbox"/> existing <input type="checkbox"/> maintenance/improvement		Use <input type="checkbox"/> private <input type="checkbox"/> public <input type="checkbox"/> commercial	
Existing overall boat ramp dimensions (ft) length width depth		Type of construction material <input type="checkbox"/> concrete <input type="checkbox"/> wood <input type="checkbox"/> stone <input type="checkbox"/> other	
Proposed overall ramp dimensions (ft) length width depth		Proposed ramp dimensions (ft) below ordinary high water mark length width depth	
Number of proposed skid piers	Proposed skid pier dimensions (ft) length width		Distance of ramp from adjacent property lines (ft)
<input type="checkbox"/> <b>H. BOAT HOIST - ROOFS</b> (See EZ Guide)			
Type <input type="checkbox"/> cradle <input type="checkbox"/> side lifter <input type="checkbox"/> other		Located on <input type="checkbox"/> seawall <input type="checkbox"/> dock <input type="checkbox"/> bottomlands	
Hoist dimensions, including catwalks (ft) length width			
Area occupied, including cat walks (sq ft)		Distance of hoist from adjacent property lines (ft)	
Permanent Roof <input type="checkbox"/> No <input type="checkbox"/> Yes ➔ If Yes, how is the roof supported?		Maximum Roof Dimensions (ft): length width height	
<input type="checkbox"/> <b>I. BOARDWALKS and DECKS in WETLANDS or FLOODPLAINS</b> (See Sample Drawings 5 and 6. Complete Sections 12 and/or 13)			
➔ Provide a table for multiple boardwalks and decks proposed in one project; include locations and dimensions.			
<b>Wetlands</b>		<b>Floodplains</b>	
Boardwalk <input type="checkbox"/> on pilings <input type="checkbox"/> on fill	Deck <input type="checkbox"/> on pilings <input type="checkbox"/> on fill	Boardwalk <input type="checkbox"/> on pilings <input type="checkbox"/> on fill	Deck <input type="checkbox"/> on pilings <input type="checkbox"/> on fill
Dimensions (ft) length width	Dimensions (ft) length width	Dimensions (ft) length width	Dimensions (ft) length width
<input type="checkbox"/> <b>J. INTAKE PIPES</b> (See Sample Drawing 16) or <b>OUTLET PIPES</b> (See Sample Drawing 22)			
If outlet pipe, discharge is to <input type="checkbox"/> inland lake <input type="checkbox"/> stream, drain or river <input type="checkbox"/> overland flow <input type="checkbox"/> Great Lake <input type="checkbox"/> wetland <input type="checkbox"/> other			
Number of pipes	Pipe diameters and invert elevations	Does pipe discharge below the OHWM?	<input type="checkbox"/> No <input type="checkbox"/> Yes
		Is the water treated before discharge?	<input type="checkbox"/> No <input type="checkbox"/> Yes
Type <input type="checkbox"/> headwall <input type="checkbox"/> end section <input type="checkbox"/> other		Dimensions of headwall OR end section (ft) length width height	

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Dock



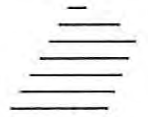
<b>10 Projects Impacting Inland Lakes, Streams, Great Lakes, Wetlands or Floodplains</b>			
<ul style="list-style-type: none"> <li>Complete only those sections A through M applicable to your project.</li> <li>If your project impacts wetlands also complete Section 12. If your project impacts regulated floodplains also complete Section 13.</li> <li>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</li> <li>Some projects on the Great Lakes require an application for conveyance prior to Joint Permit Application completeness.             <ul style="list-style-type: none"> <li>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.</li> <li>Provide tables for multiple impact areas or multiple activities such as multiple fill areas or multiple culverts. Include your calculations.</li> </ul> </li> </ul>			
<b>Water Level Elevation</b>			
On inland waters <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88 <input type="checkbox"/> other		Observed water elevation (ft)	date of observation (M/D/Y)
On a Great Lake <input type="checkbox"/> IGLD 85 <input type="checkbox"/> surveyed <input type="checkbox"/> converted from observed still water elevation.			
<input type="checkbox"/> <b>A. PROJECTS REQUIRING FILL</b> (See All Sample Drawings)			
<ul style="list-style-type: none"> <li>Attach a site plan and cross-section views to scale showing maximum and average fill dimensions with calculations.</li> <li>For multiple impact areas on a site provide a table with location, dimensions and volumes for each fill area.</li> </ul>			
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 <b>X. other BEACH SANDING PART 301</b>	
Dimensions of fill (ft) Length <b>40</b> Width <b>20</b> Maximum Depth <b>6</b>		Total volume (cubic yards) <b>29</b>	Volume below OHWM (cubic yards) <b>29</b>
Maximum water depth in fill area (ft) <b>2</b>		Area filled (sq ft) <b>800</b>	Will filter fabric be used under proposed fill? <input type="checkbox"/> No <b>X</b> Yes (If Yes, type) <b>GEO-TECH</b>
Fill will extend <b>20</b> feet into the water from the shoreline and upland		feet out of the water.	
Type of clean fill		<b>X</b> peastone <b>50%</b> <b>X</b> sand <b>50%</b> <input type="checkbox"/> gravel    % <input type="checkbox"/> other	
Source of clean fill		<b>X</b> commercial <input type="checkbox"/> on-site <input type="checkbox"/> other If on-site, show location on site plan. If other, attach description of location.	
<b>Received WRD/DEQ</b>			
<input type="checkbox"/> <b>B. PROJECTS REQUIRING DREDGING OR EXCAVATION</b> (See Sample Drawings)			
<ul style="list-style-type: none"> <li>Refer to <a href="http://www.mi.gov/jointpermit">www.mi.gov/jointpermit</a> for spoils disposal and authorization requirements.</li> <li>Attach a site plan and cross-section views to scale showing maximum and average dredge or excavation dimensions with calculations.</li> <li>For multiple impact areas on a site provide a table with location, dimensions and volumes for each dredge/excavation area.</li> </ul>			
Purpose		<input type="checkbox"/> boat ramp <b>X</b> boat well COMBO <input type="checkbox"/> bridge or culvert <input type="checkbox"/> maintenance dredge <b>X</b> navigation <input type="checkbox"/> pond/basin <b>X</b> other <b>COVERED WHARFAGE</b>	
Dimensions (ft) Dredging Length <b>64</b> Width <b>32</b> Maximum Depth <b>2</b> , <b>IN WATERS- PART 301</b>		Total volume (cu yds) <b>150</b>	Volume below OHWM (cu yds) <b>150</b>
Has this same area been previously dredged?		<b>X</b> No <input type="checkbox"/> Yes    If Yes, provide date and permit number.	
Will the previously dredged area be enlarged?		<b>X</b> No <input type="checkbox"/> Yes    If Yes, when and how much?	
Is long-term maintenance dredging planned?		<b>X</b> No <input type="checkbox"/> Yes    If Yes, how often?	
Dredge or Excavation Method <input type="checkbox"/> Hydraulic <b>X</b> Mechanical <input type="checkbox"/> other			
Spoils Disposal	Dredged or excavated spoils will be placed <b>X</b> 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? <b>X</b> No <input type="checkbox"/> Yes    If Yes, provide test results with a map of sampling locations.		
<input type="checkbox"/> <b>C. PROJECTS REQUIRING RIPRAP</b> (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) <input type="checkbox"/> field stone <input type="checkbox"/> angular rock <input type="checkbox"/> other		Will filter fabric or pea stone be used under proposed riprap? <input type="checkbox"/> No <input type="checkbox"/> Yes, Type	

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DEC 16 2013



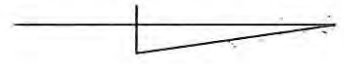
Aqua Terra Law = Detailed Spoils areas



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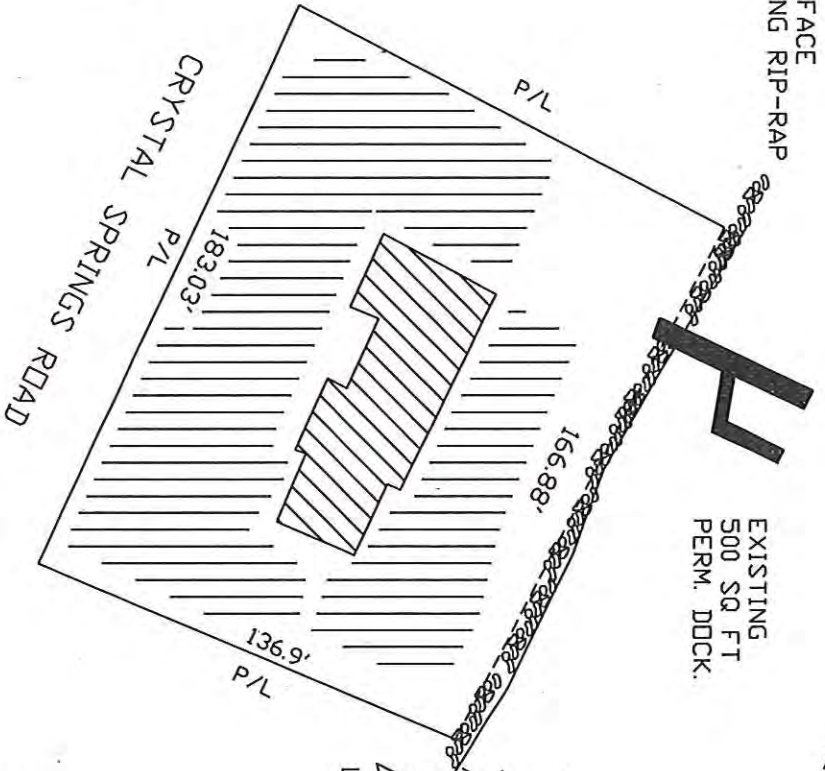
CLAM LAKE  
GAYLORD FIELD OFFICE



DHWM DN FACE  
OF EXISTING RIP-RAP

EXISTING  
500 SQ FT  
PERM. DOCK.

HELENA TOWNSHIP  
DENNIS AND NANCY SCHREUR  
6833 CRYSTAL SPRINGS RD.  
BELLAIRE, MI 49615  
SEC 4, T29N R8W



PART 301  
MDEQ JURISDICTION

LOCAL ZONING

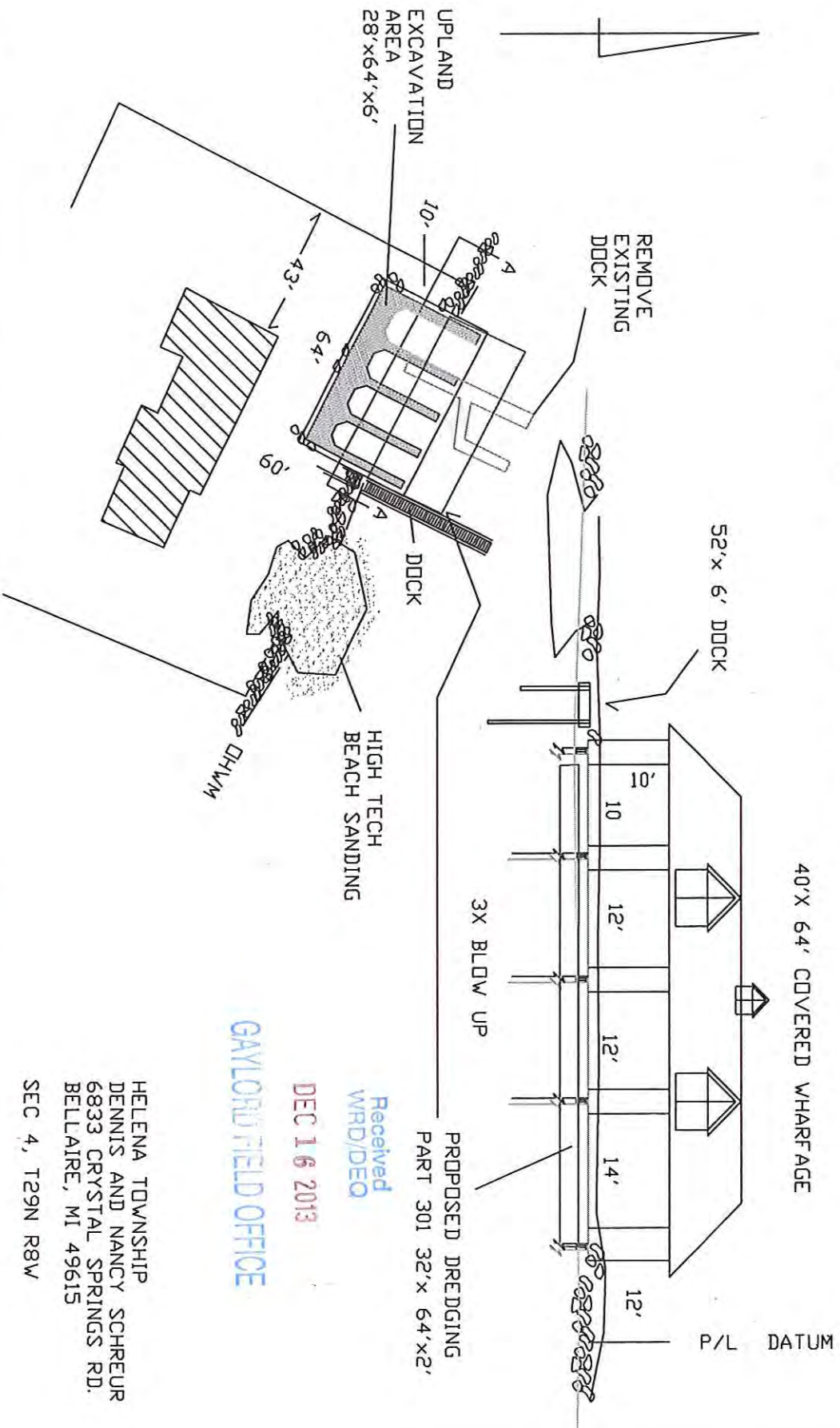
CLAM LAKE IS A BOAT HOUSE  
COMMUNITY

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DATE: DEC 12, 2013				1 OF 1
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PROPOSED Part 301, Riparian Covered Wharfage



40' X 64' COVERED WHARFAGE

52' X 6' DOCK

P/L DATUM

3X BLOW UP

PROPOSED DREDGING  
PART 301 32' X 64' X 2'

UPLAND  
EXCAVATION  
AREA  
28' X 64' X 6'

HIGH TECH  
BEACH  
SANDING

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HELENA TOWNSHIP  
DENNIS AND NANCY SCHREUR  
6833 CRYSTAL SPRINGS RD.  
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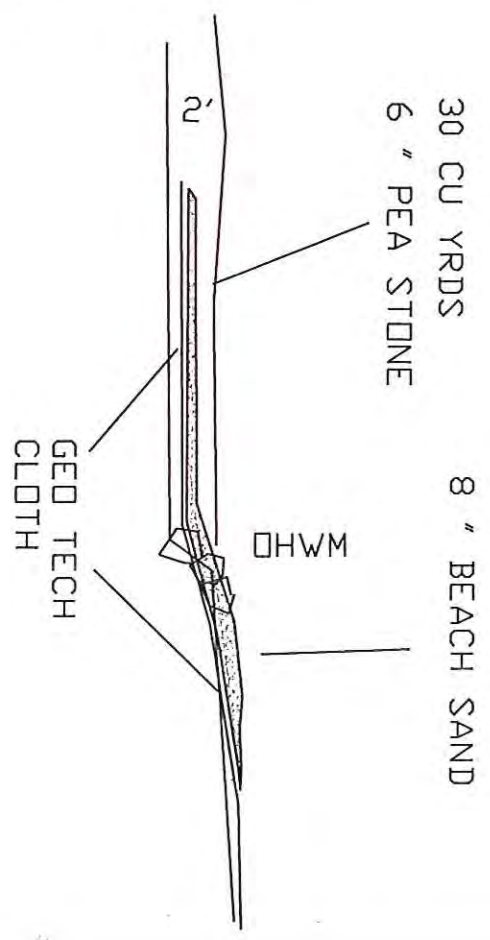
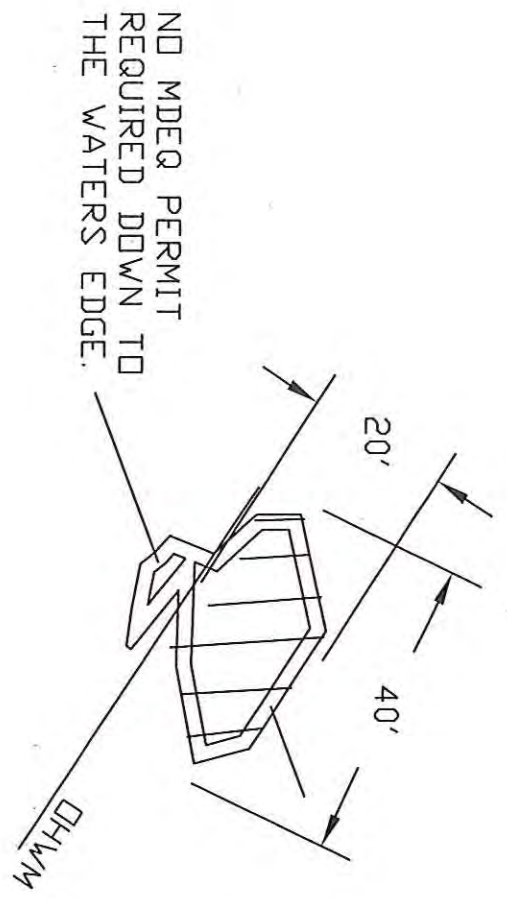
Aqua Terra Low PROPOSED PART 301 BEACH SANDING 800 SQ FT.  
 DETAILS

HIGH TECH  
 BEACH SANDING

800 SQ FT. PART 301

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PROVIDING PATH ACCESS



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DATE: NOV 2013	DEC 12, 2013 Beach			3 OF 6
DWG. NO.:				
APPROVED BY:				

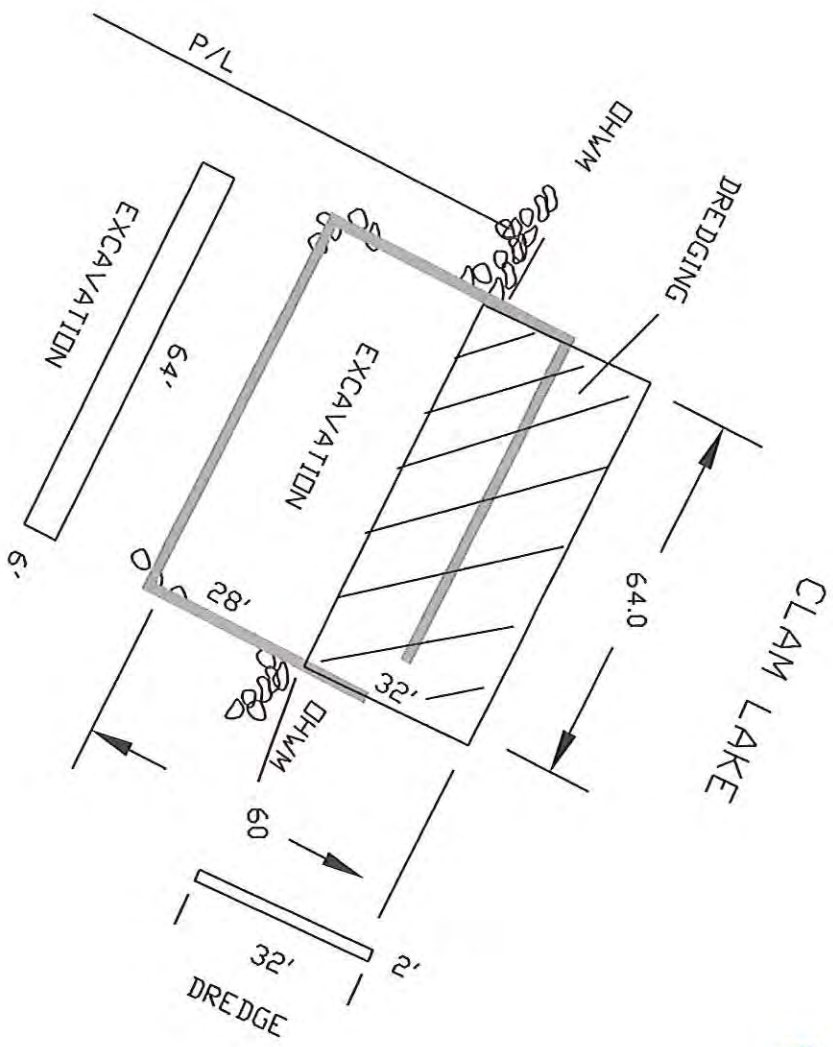
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PROPOSED PART 301 DREDGING

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SHT. NO.

4 OF 6

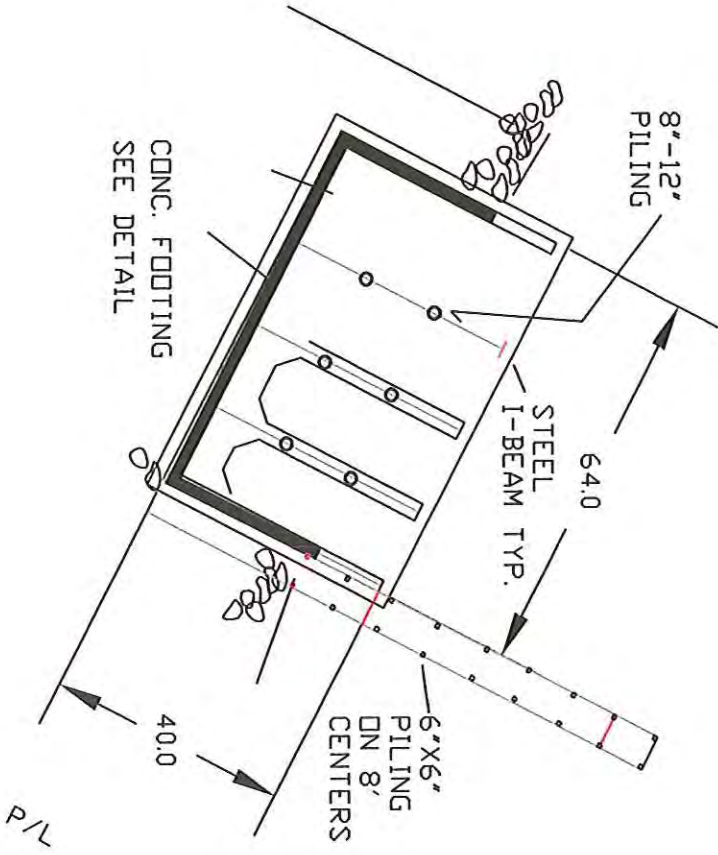
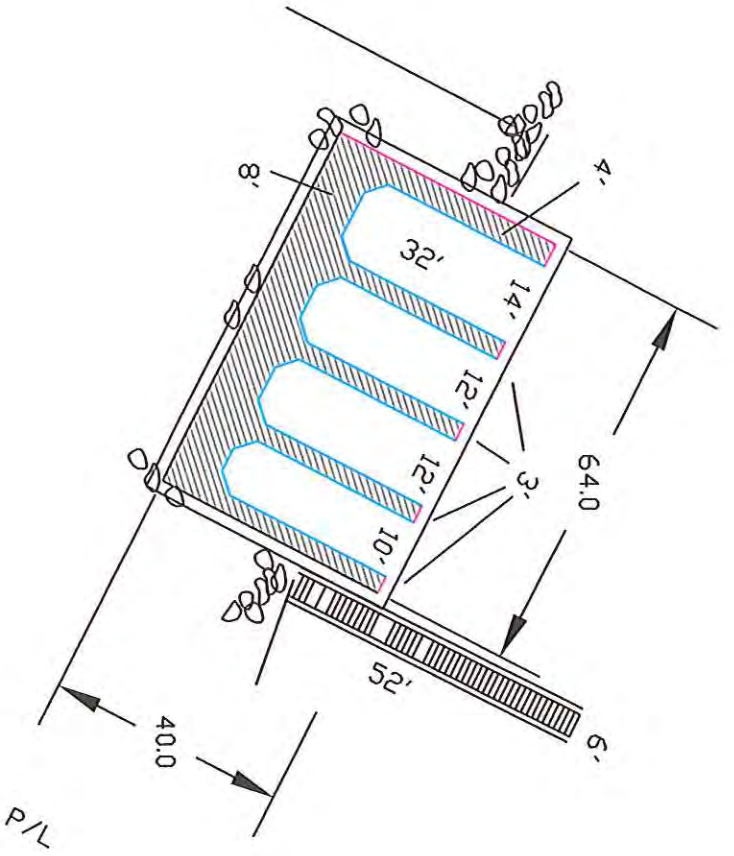
Aqua Terra Law PROPOSED WHARFAGE DETAILS

CLAM LAKE

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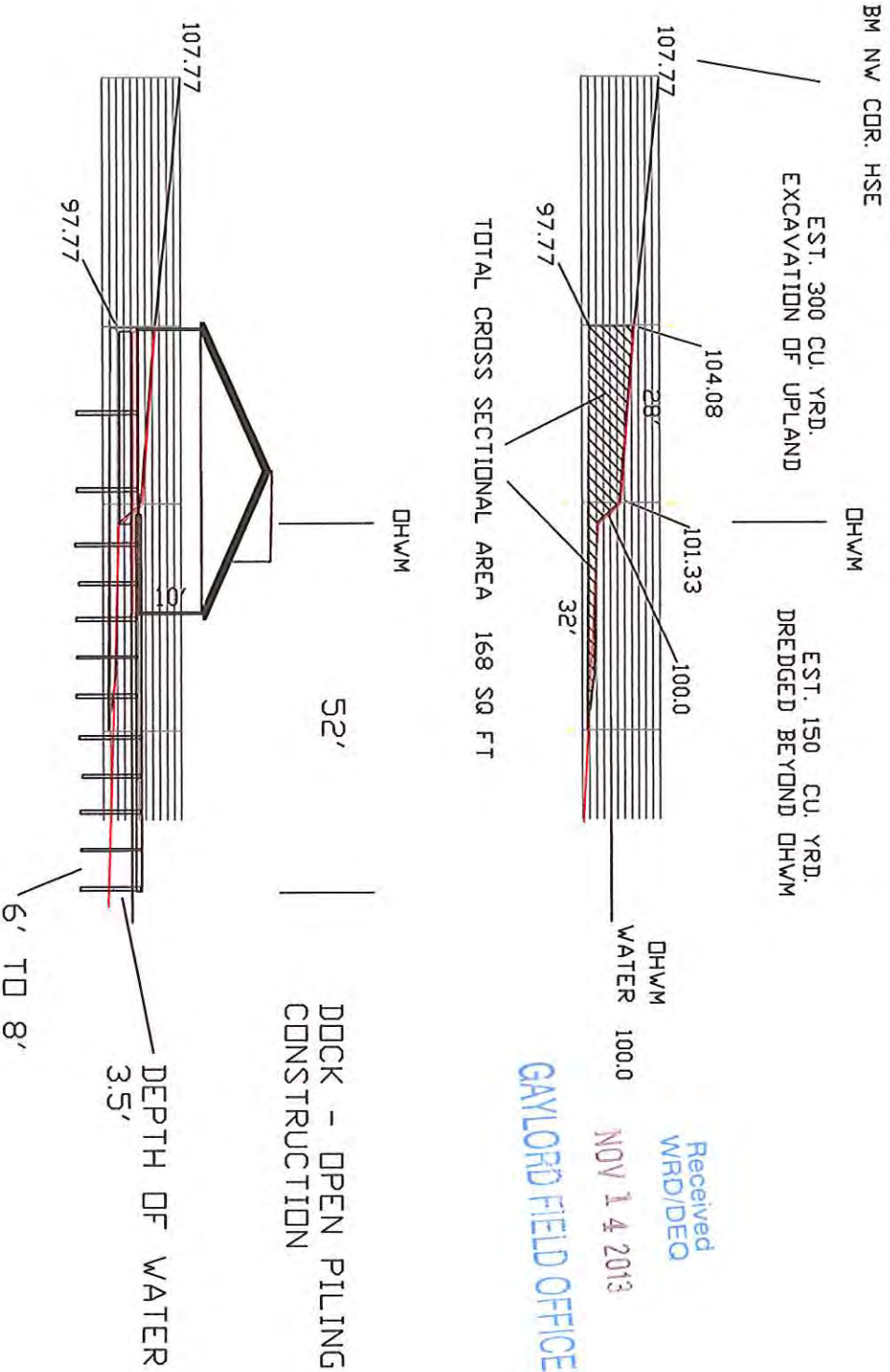
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APPROVED BY:				

Aqua Terra Law PROPOSED PART 301 DREDGING



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DRAWN BY: ECM  
 DATE: NOV 2013  
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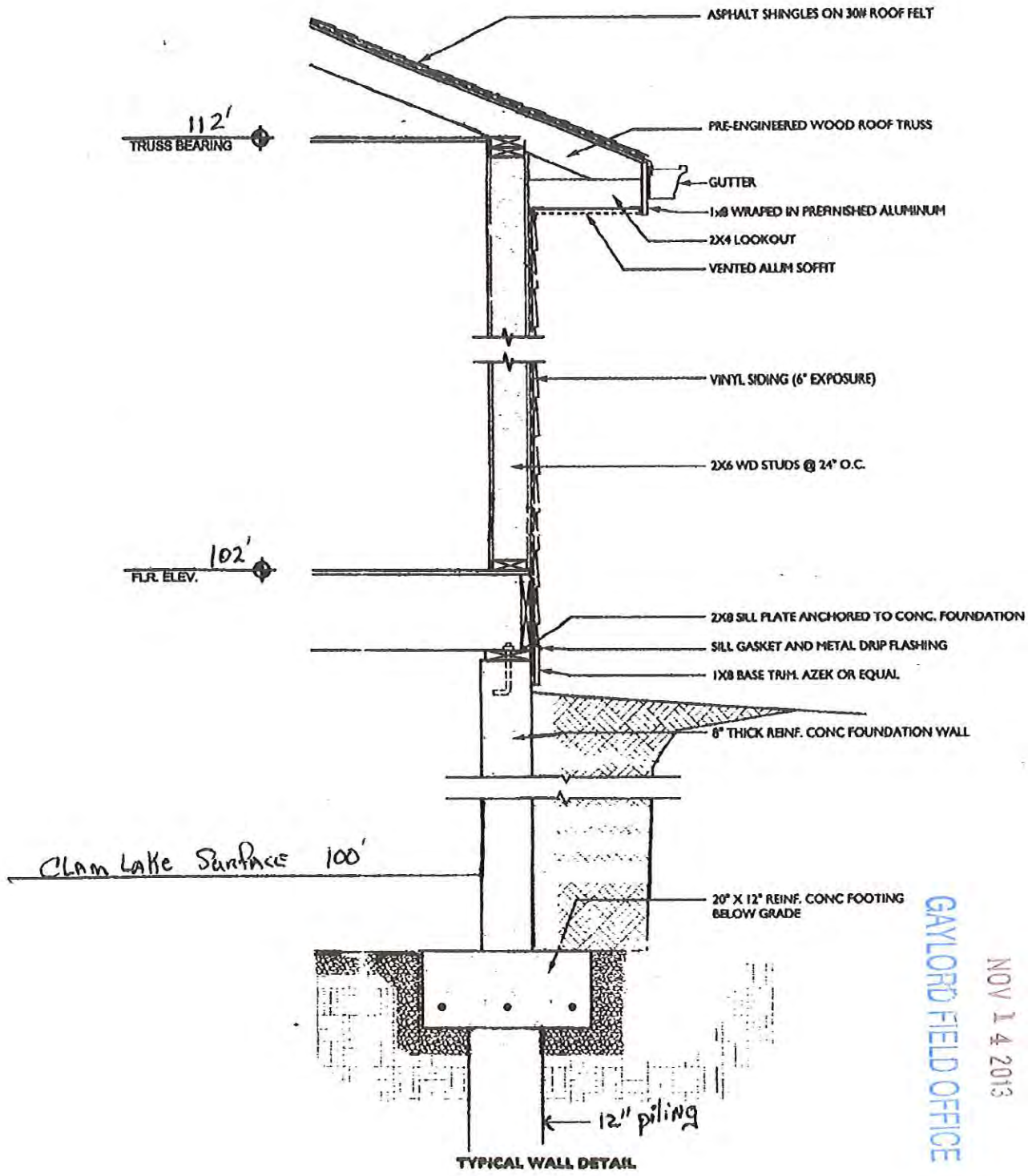
REVISIONS

PROPERTY OWNER: SCHREUR

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6 OF 6

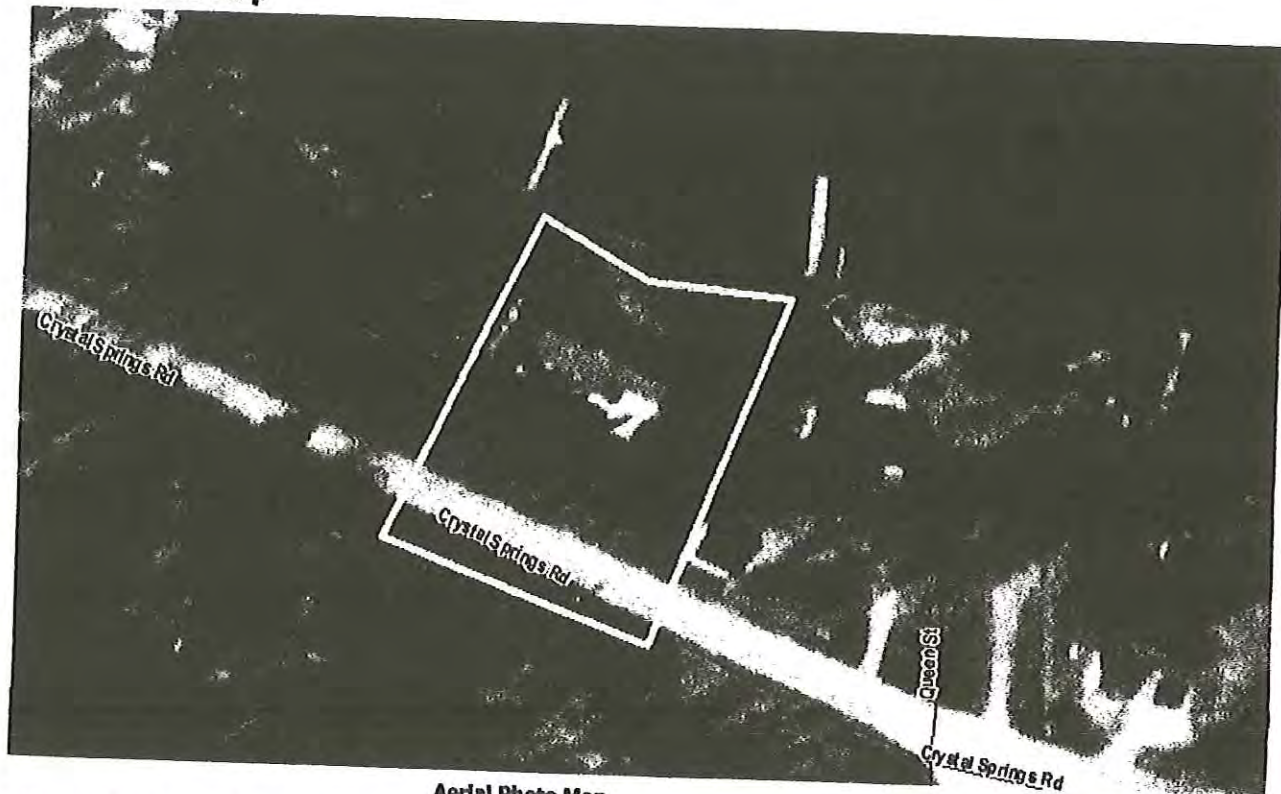


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6833 Crystal Springs Rd Boat House

### Aerial Photo Map



Aerial Photo Map

The original photographs used on this web site were provided by the Antrim County Planning Office. The photos were collected in the spring of 1999. The 'best resolution' of these images is 1.56 feet per pixel.

The Aerial Photo Map (orthophotography) consists of images processed by computer to remove the distortions caused by tilt of the aircraft and topographic relief in the landscape. These images are properly scaled and located in the state plane coordinate system (NAD83) thus giving them similar characteristics of a map.

95 US Feet

↑ N

■ Aerial Photo Map

□ County Border

┌ Municipal Boundary

▬ Public Roads

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*Adj. Prop.*

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 BELL AIRE, MICH 49615

NW CAMPBELL DAN, EDWIN  
 8661 ALLEN RD  
 CLARKSTON, MI 48348

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AUTHORIZATION LETTER 11/02/2013

Concerning MDEQ Application Request,

I AUTHORIZE ADVANCED GPS & GIS, EDWIN C. MARTEL TO REPRESENT , ACT AS AGENT, AND CONSULT/ADVISE, CONCERNING THIS APPLICATION REQUEST AND ANY ASSOCIATED APPEALS . I ALSO AUTHORIZE ROBERT KAUFMAN ATTORNEY TO ADVISE, RESPOND AND REPRESENT MY LEGAL NEEDS AND INTEREST IDENTIFIED IN THE APPLICATION REQUEST AND ANY ASSOCIATED APA APPEAL.

I request that all documents and email communications concerning this application request are emailed to the following:

schreurd@gmail.com Property Owner

rkkaufman@yahoo.com Attorney

wetlandsagg@aol.com Consultant

All hard copy documents should be mailed to property owner and Advanced GPS & GIS



11/3/13

Dennis Schreur

Property owner / Applicant

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NOV 14 2013

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