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Secretary

DAVID KLOTZLE
Wetland Inspector

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD



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BOARD MEMBERS

Edward Barnett
Marc Pekowsky
Vincent Turano
Nicholas Fannin
John Starace

ENVIRONMENTAL CONSERVATION BOARD AGENDA
JUNE 16, 2016 – 7:30 P.M.

ELIGIBLE FOR A PERMIT

<u>APPLICANT</u>	<u>ADDRESS</u>	<u>TAX MAP #</u>	<u>COMMENTS</u>
1. Manfred, Ashley & Francis	9 Lakeside Road	64.15-1-14	Install Hot Tub
2. Kleinschmidt, Leslie & Ned	41 Averill Drive	64.16-1-33	Renovations to Existing Home
3. Willow Wood Country Club d/b/a Willow Wood Gun Club	551 Union Valley Rd	87.7-1-7	Tree Harvesting
4. Lake Plaza Shopping Center (Proposed Stop & Shop)	983-1005 Route 6	65.10-1-45 & 46	Amended Site Plan (Discussion)

SUBMISSION OF AN APPLICATION OR LETTER OF PERMISSION

5. Tenenpaguay, Carlos	390 East Lake Blvd	65.9-1-33	Construct Vegetated Swale, Storm Drainage Pipe, Driveway & Walkway
6. New York City DEP	Route 6 & Drewville Rd	65.-1-12	Geotechnical Borings (10)
7. Loewenberg, Ralph	260 West Lake Blvd	64.16-1-30	Construct Bathhouse Over Existing Boathouse
8. McGovern, Patrick	208 Daisy Lane	77.19-1-30.2	Construct Detached Garage

ESCROW RETURN

9. Wagner Millwork LLC - Corbelli	150 Barrett Hill Rd	53.18-1-28	Tree Harvesting
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MISCELLANEOUS

10. Gail Apicella	42 Cortlandt Road	65.14-1-86	New Septic System (Discussion)
11. Minutes – 06/02/16			

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife

625 Broadway, 5th Floor, Albany, NY 12233-4750

P: (518) 402-8924 | F: (518) 402-8925

www.dec.ny.gov

Protective measures for northern long eared bats when engaging in forestry practices

This document provides guidance regarding measures that must be taken to ensure that forest management activities are protective of the northern long-eared bat (NLEB) and do not result in an incidental take pursuant to 6NYCRR Part 182.

The NLEB was listed as “threatened” by the United States Fish and Wildlife Service (USFWS) under the federal Endangered Species Act on April 2, 2015. The listing was the result of population declines caused by white-nose syndrome (WNS). On January 14, 2016, USFWS issued its Final 4(d) Rule for the NLEB, imposing two specific conservation measures: a 0.25 mile buffer around known occupied northern long-eared bat hibernacula and a 150-foot buffer around known occupied maternity roost trees during the pup season (June 1 through July 31). On April 27, 2016, USFWS announced its determination that it would not designate critical habitat for the NLEB because “Northern long-eared bat summer habitat is not limited or in short supply and summer habitat loss is not a range-wide threat to the species.”

The Department concurs with the conclusion of the USFWS that the NLEB population decline is not the result of habitat loss. However, the Department is requiring additional conditions on tree cutting in order to protect any bats that may be roosting in the trees in the vicinity of the hibernacula and roost trees. Therefore, ***in addition to the requirements of USFWS Final 4(d) Rule for the NLEB***, all forest management activities must comply with the following conditions in areas of known occupied habitat. Forest management activities that incorporate the following requirements do not need a permit from the Department under 6 NYCRR Part 182 because cutting of live trees under the prescribed conditions will not result in an incidental take of NLEB.

November 1 to March 31: during this period of time, the NLEB are inactive and are within the hibernacula.

- Cutting of any trees may occur outside of the ¼ mile buffer around a hibernaculum.

April 1 to October 31: during this period of time, the NLEB are active and will be found outside the hibernacula.

- Within 5 miles of known hibernacula and within 150' of known roost trees the following cutting restrictions apply:
 - Leave uncut ***all*** snag and cavity trees unless their removal is necessary for protection of human life and property. Snag and cavity trees are defined at



Department of
Environmental
Conservation

<http://www.dec.ny.gov/lands/69658.html> under DEC Program Policy ONR-DLF-2 Retention on State Forests.

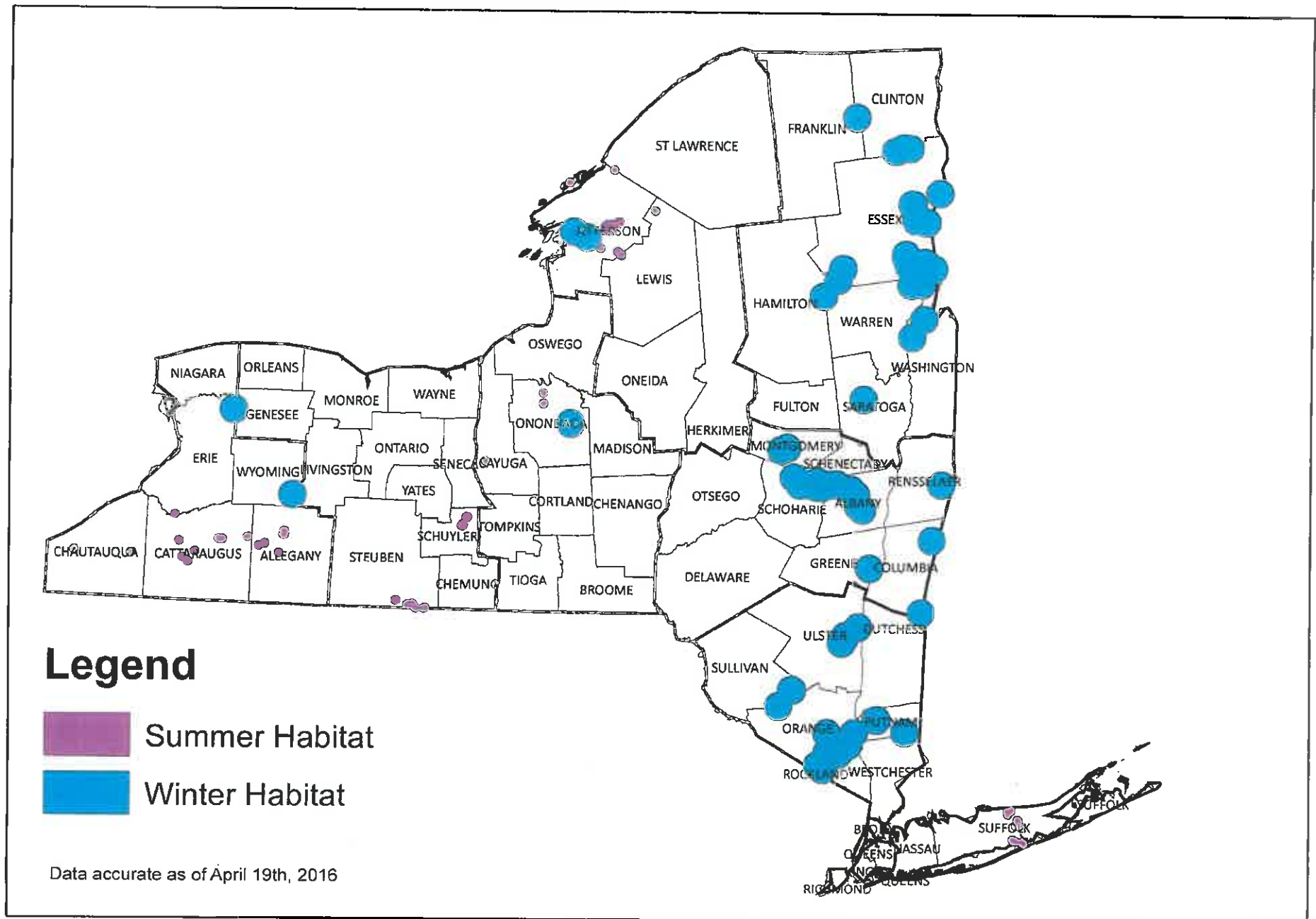
- Leave uncut all known and documented roost trees, and any trees within a 150 foot radius of a known roost tree.
 - If any bats are observed flying from a tree, or on a tree that has been cut, forestry activities in the area should be suspended and DEC Wildlife staff notified as soon as possible.
- Within a ¼ mile of a hibernaculum, leave all trees uncut unless their removal is necessary for protection of human life and property.

Outside of the 5-mile buffer around known hibernacula and the 150-foot buffer around known roost trees, there are no cutting restrictions.

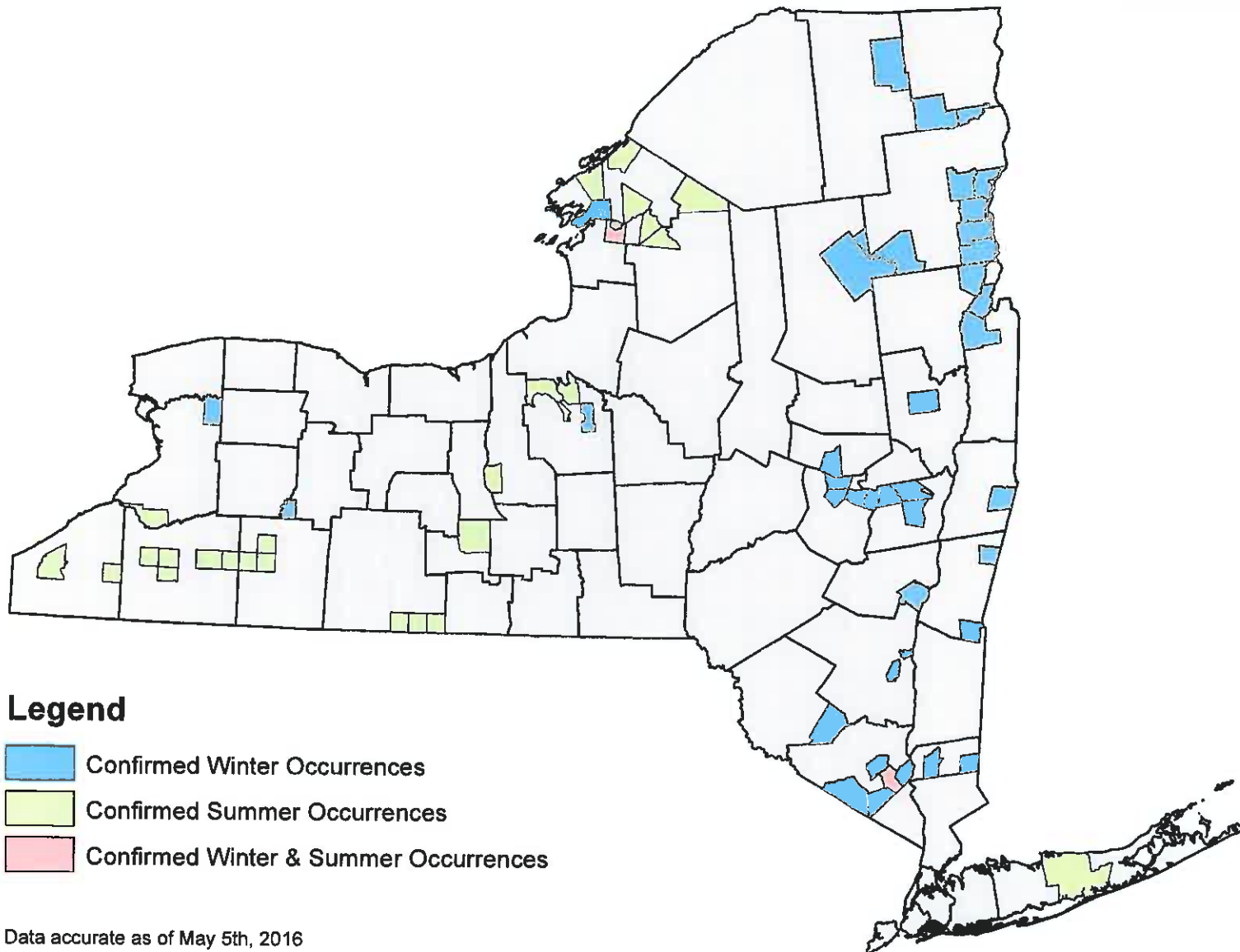
If people have questions about the above conditions or need assistance in identifying hibernacula locations, please call the Division of Environmental Permits in the appropriate DEC regional office.

This guidance is only intended to address NLEB protective measures. Additional regulations may apply to the land, including wetland and stream protection regulations and protective measures for other federal or state endangered species that may be present. Regional DEC staff in Division of Environmental Permits can help determine if any of these restrictions apply to the property and project in question.

Northern Long-eared Bat Current Occupied Sites



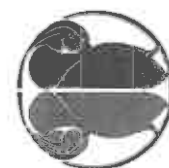
Northern Long-eared Bat Occurrences by Town



County	Town	Winter	Summer
Albany	Guilderland	Yes	
	Knox	Yes	
	New Scotland	Yes	
Allegany	Belfast		Yes
	Caneadea		Yes
	New Hudson		Yes
Cattaraugus	Franklinville		Yes
	Little Valley		Yes
	Lyndon		Yes
	Mansfield		Yes
	New Albion		Yes
Cayuga	Ledyard		Yes
Chautauqua	Chautauqua		Yes
	Ellington		Yes
Clinton	Ausable	Yes	
	Black Brook	Yes	
Columbia	Ancram	Yes	
	Canaan	Yes	
Erie	Collins		Yes
	Newstead	Yes	
Essex	Crown Point	Yes	
	Elizabethtown	Yes	
	Minerva	Yes	
	Moriah	Yes	
	Ticonderoga	Yes	
	Westport	Yes	
Franklin	Bellmont	Yes	
Greene	Catskill	Yes	
Hamilton	Indian Lake	Yes	
Jefferson	Alexandria		Yes
	Brownville	Yes	
	Champion		Yes
	Clayton		Yes
	Le Ray		Yes
	Watertown	Yes	Yes
Lewis	Denmark		Yes
	Diana		Yes
Livingston	Portage	Yes	
Montgomery	Root	Yes	

Onondaga	Clay		Yes
	De Witt	Yes	
	Geddes		Yes
	Lysander		Yes
Orange	Blooming Grove	Yes	
	Highlands	Yes	
	Tuxedo	Yes	
	Warwick	Yes	
	Woodbury	Yes	Yes
Putnam	Putnam Valley	Yes	
	Southeast	Yes	
Rensselaer	Berlin	Yes	
Saratoga	Greenfield	Yes	
Schoharie	Carlisle	Yes	
	Cobleskill	Yes	
	Schoharie	Yes	
	Wright	Yes	
Schulyer	Hector		Yes
Steuben	Caton		Yes
	Lindley		Yes
	Tuscarora		Yes
Suffolk	Brookhaven		Yes
Sullivan	Manmakating	Yes	
Ulster	Kingston	Yes	
	Rosendale	Yes	
Warren	Hague	Yes	
Washington	Dresden	Yes	
	Fort Ann	Yes	





Evans Associates
Environmental Consulting, Incorporated

June 6, 2016

Environmental Conservation Board
Town Carmel
Town Hall
60 McAlpin Avenue
Mahopac, New York 10541

**Re: 390 East Lake Boulevard
Application for Wetlands Permit**

Honorable Robert Laga, Chairman and Members of the Environmental Conservation Board:

We are pleased to submit four (4) copies of the following revised plans on behalf of Carlos Tenenpaguay, the applicant for the project.

<u>Drawing No.</u>	<u>Drawing Title</u>	<u>Date</u>
SW-1	Stormwater Plan	06/06/2016
EC-1	Erosion and Sediment Control Plan	06/06/2016
DE-1	Construction Details	06/06/2016
DE-2	Mitigation Planting Plan & Construction Details	06/06/2016

Also included are four copies of:

- Stormwater Calculations: Table 1, Water Quality Volume Calculations, Table 2, Rain Garden #1 Calculations, and Table 3, Rain Garden #2 Calculations.
- Photographs of the Property.

The following text responds to comments of the Environmental Conservation Board received at the meeting of April 21:

1. *Calculate the area of the driveway and walkway. Provide stormwater mitigation (rain garden or other stormwater mitigation) for the new surfaces.*

The area of the driveway and walkway is 1,260 square feet and 122 s.f., respectively. Runoff from the driveway will be conveyed via sheet flow to a rain garden to be



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constructed along the southerly property line. The runoff from the walkway will be conveyed also by sheet flow to a rain garden in the upland area to the south of wetlands flags A7 and A8. Calculations have been provided in accordance with the 2015 New York State *Stormwater Management Design Manual*, Chapter 5 (Green Infrastructure) which shows that the two rain gardens, as designed, are sized to capture and treat the water quality volume from the driveway and front walk.

2. *Provide a "spill kit" for the machine to do the work in the wetland.*

The contractor will be required to have a spill kit present on the property in the event there is a spill of fuel or products that would be detrimental to the wetland or buffer. A note to this effect is provided on the plan (see drawing SW-1 and EC-1).

3. *Provide a fueling plan – provide a location where refueling will be performed. Indicate what protection will be done to avoid impacts to the buffer.*

Refueling is to be done on the east (right) side of the house over the future driveway footprint. The proposed location is outside of the wetland boundary, though within the buffer. A fuel containment berm which can temporarily hold spilled fuel will be installed in the fueling location during construction.

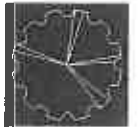
4. *Remove the rip rap depicted on the plan from the Town land, or provide a letter from the Town which would permit the deposition of the stone in this location.*

The grassed swale design has been modified to slope down into the low area at the intersection of Wixson Pond Road and East Lake Boulevard. No rip rap stone will be placed within the Town right-of-way.

5. *In the next submission, provide photographs to the Board.*

Four copies of 8 color photographs taken at the property in the spring of 2016 are appended to this letter.

6. *Depict on the plans the location of the future new water supply line from the new well to the house. Provide on the plans the details on how the trenches to the well will be restored.*



The plans have been modified to show the location of the new water supply line from the new well which has been constructed on property to the house. A construction detail of the trench to the well may be referenced as detail 4 on drawing DE-1.

7. *Show the electric line to be installed from the house to the well.*

The location of the electric line to be installed from the house to the well is depicted on drawing SW-1. The electric line will be installed in accordance with the National Electrical Code and New York State Building Code for direct buried cable or conduit. Underground warning tape shall be installed above the cable as per regulations.

8. *Indicate that the former well will be abandoned in accordance with NYSDEC protocols. The abandonment is to be done by a licensed well driller.*

Note 5 on drawing SW-1 has been added to the plans: "The former well on the property shall be abandoned in accordance with New York State Department of Health and Department of Environmental Conservation protocols, as well as in accordance with the Putnam County Health Department rules and regulations. Former well shall be abandoned by a licensed well driller licensed in the State of New York." In addition, the former well is flagged on drawing SW-1 to be abandoned and reference to note 5 of the notes on drawing SW-1 has also been added to the plan.

9. *Include silt fence around the perimeter of the disturbance from the trenching.*

Silt fence, as requested, has been added around the perimeter of the disturbance from the trenching to install the electric line from the house to the well and the water service line from the well to the house.

10. *Indicate the plants (genus, species and quantities) to be installed on the plan. Install only wetland plants in the wetland (i.e. this will be sedges and rushes that can be mown as lawn).*

Drawing SP-1 depicts the plantings, by genus and species, to be installed in the proposed rain gardens, as well as for stabilization of all disturbed surfaces on the property.

11. *Shorten the length of the perforated storm pipe to the length of the wetland "finger". Eliminate the pipe where the wetland broadens out.*



As requested, the proposed perforated pipe has been removed from upper portion of the wetland; the perforated pipe is now only to be installed in the wetland "finger" between the house and Wixson Pond Road.

12. Remove the rock around the well and indicate how the wetland will be restored when the rock will be removed.

The revised plans indicate that the rock around the well is to be removed and the top of the well head adjusted to be 24" above the finished grade (the top of the well casing must be at least 18" above grade). The finished grade around the perimeter of the well is to be set between 6 inches and 1 foot above the surrounding wetland grade in order to provide positive drainage away from the well as is required.

Once the rock is removed from the perimeter of the well, the ground surface surrounding the well where the rock had been placed will be scarified in accordance with Disturbed Areas Stabilization Protocol of the 2015 Stormwater Management Design Manual. Under these protocols, during periods of relatively low to moderate subsoil moisture, the disturbed subsoils are returned to rough grade and the following Soil Restoration steps applied:

(1) Apply 3 inches of compost over subsoil; (2) Till compost into subsoil to a depth of at least 12 inches using a cat-mounted ripper, tractor-mounted disc, or tiller, mixing, and circulating air and compost into subsoils, (3) Rock-pick until uplifted stone/rock materials of four inches and larger size are cleaned off the site. (4) Apply topsoil to a depth of 6 inches. (5) Vegetate as required by approved plan.

At the end of the soil restoration procedure, an inspector should be able to push a 3/8" metal bar 12 inches into the soil just with body weight.

The soil restoration procedures may be found on drawing DE-1.

13. Call Rose Trombetta to have the Town wetland inspector confirm the boundaries of the wetland.

So noted. This has been done.

14. Provide at least three cross sections from Wixson Pond Road through the swale and to the house/wetland area.



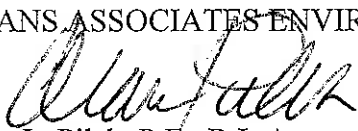
Environmental Conservation Board
June 6, 2016
Page 5

Cross-sections from Wixson Pond Road through the swale and to the house/wetland area may be referenced on drawing DE-1.

Should you have any comments or questions regarding the enclosed submission, please feel free to call us at (203) 393-0690. We look forward to reviewing the plan modifications and items requested by the Board at its next available meeting.

Very truly yours,

EVANS ASSOCIATES ENVIRONMENTAL CONSULTING



Alan L. Pilch, P.E., R.L.A.
Senior Design Associate

cc: Carlos Tenenpaguay (w/encl.) and Bruno Pietrosanti, AIA (w.encl.)



Table 1
390 East Lake Boulevard
Water Quality Volume Calculation

IMPERVIOUS/SEMI-PERVIOUS AREAS TO BE TREATED

	AREA	
	(in sq feet)	(in acres)
Driveway	1,260	0.029
Walkway	122	0.003
Steps to Front Entry	48	0.001
TOTAL AREA	170	0.004

Accordingly, the water quality volume is calculated as follows:

Precipitation Depth, 90% Rule = 1.5 inches *As per Fig 4.1, 2015 NYS SMDM*

Water Quality Volume, WQv = $(P \times R_v \times A) / 12$

where,

WQv = water quality volume, in acre feet

P = 90% rainfall event number

$R_v = 0.05 + 0.009 \times (I)$, where I is percent impervious cover

A = site area in acres (contributing area)

Drainage Area #	Area (acres)	R_v^*	Water Quality Volume, WQv (acre-feet)	Water Quality Volume, WQv (cubic feet)
Driveway	0.029	0.95	0.0034	150
Walkway & Steps to Front Entry	0.004	0.95	0.0005	20

* calculation is done assuming driveway, walkways and steps are impervious in order to be very conservative in sizing rain gardens

Table 2
390 East Lake Boulevard
Rain Garden #1 Calculations

RAIN GARDEN STAGE-STORAGE TABLE

Elevation <i>feet</i>	Area <i>s.f.</i>	Incremental Volume <i>c.f.</i>	Volume Sum <i>cu. ft.</i>	Volume Sum <i>acre-feet</i>
72.50	160	0	0	0
72.75	235	49	49	0.0011
73.00	315	69	118	0.0027

Equations as per 2015 NYS SMDM:

$$WQv \leq VSM + VDL + (DP \times ARG)$$

$$VSM = ARG \times DSM \times nSM$$

$$VDL \text{ (optional)} = ARG \times DDL \times nDL$$

where:

VSM = volume of the soil media [cubic feet]

VDL = volume of the gravel drainage layer [cubic feet]

ARG = rain garden surface area [square feet]

DSM = depth of the soil media, typically* 1.0 to 1.5 [feet]

DDL = depth of the drainage layer, minimum 0.5 [feet]

DP = depth of ponding above surface, maximum 0.5 feet [feet]

nSM = porosity of the soil media ($\geq 20\%$)

nDL = porosity of the drainage layer ($\geq 40\%$)

WQv = Water Quality Volume [cubic feet], as defined in Chapter 4

Surface Area of Rain Garden, ARG =	160 sq feet	<i>as per design</i>
Depth of the Soil Media, DSM =	1 foot	<i>as per design</i>
Porosity of the Soil Media, nSM =	30 %	<i>typical, as per 2015 SMDM</i>
Porosity of the Drainage Layer, nDL =	40 %	<i>typical, as per 2015 SMDM</i>
Depth of Ponding above Surface =	0.4 feet	<i>as per design</i>
Volume of Soil Media, VSM =	48 cubic feet	<i>calculated</i>
Volume of Gravel Drainage Layer, VDL =	64 cubic feet	<i>calculated</i>
WQv to be treated =	150 cubic feet	<i>calculated</i>
VSM + VDL + (DP x ARG) =	176 cubic feet	<i>calculated</i>
Is WQv <= VSM + VDL + (DP x ARG)?	Yes, design OK	

Since the WQv is less than the equation above, the design is acceptable.

Table 3
390 East Lake Boulevard
Rain Garden #2 Calculations

RAIN GARDEN #2 STAGE-STORAGE TABLE

Elevation <i>feet</i>	Area <i>s.f.</i>	Incremental Volume <i>c.f.</i>	Volume Sum <i>cu. ft.</i>	Volume Sum <i>acre-feet</i>
71.50	60	0	0	0
71.75	95	19	19	0.0004
72.00	140	29	49	0.0011

Equations as per 2015 NYS SMDM:

$$WQv \leq VSM + VDL + (DP \times ARG)$$

$$VSM = ARG \times DSM \times nSM$$

$$VDL \text{ (optional)} = ARG \times DDL \times nDL$$

where:

VSM = volume of the soil media [cubic feet]

VDL = volume of the gravel drainage layer [cubic feet]

ARG = rain garden surface area [square feet]

DSM = depth of the soil media, typically* 1.0 to 1.5 [feet]

DDL = depth of the drainage layer, minimum 0.5 [feet]

DP = depth of ponding above surface, maximum 0.5 feet [feet]

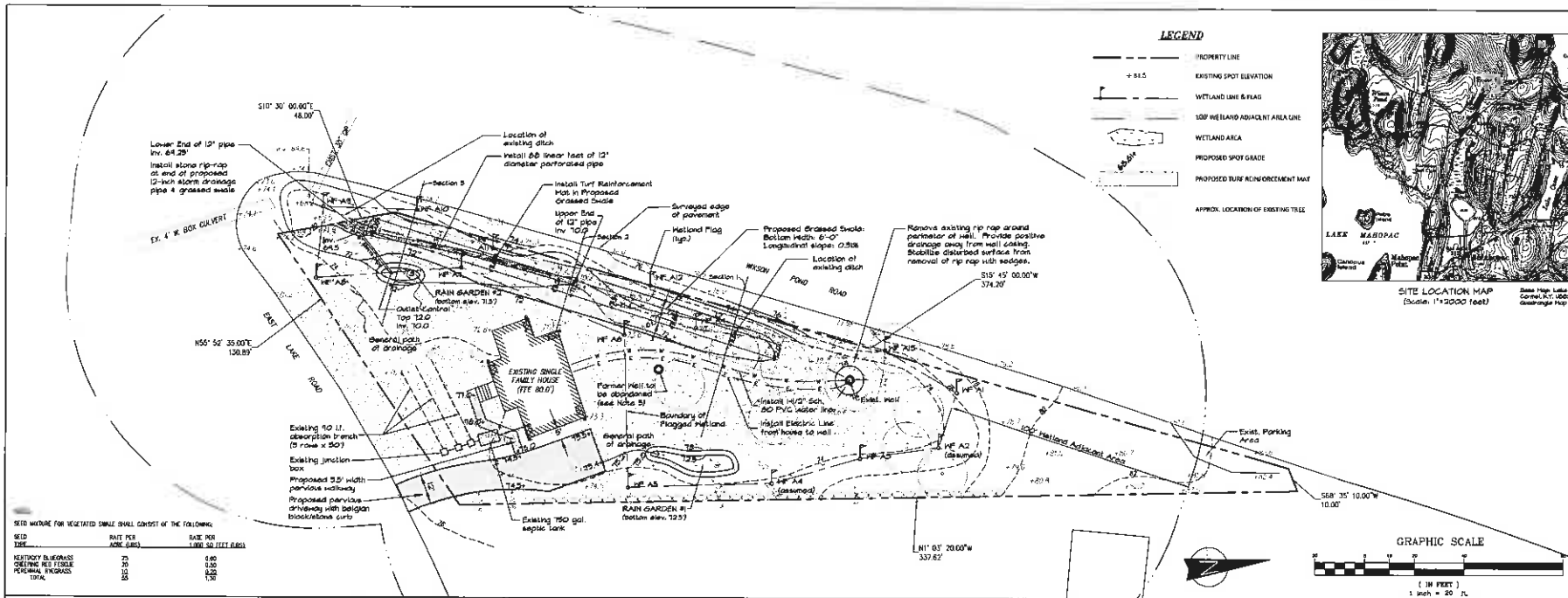
nSM = porosity of the soil media ($\geq 20\%$)

nDL = porosity of the drainage layer ($\geq 40\%$)

WQv = Water Quality Volume [cubic feet], as defined in Chapter 4

Surface Area of Rain Garden, ARG =	60 sq feet	<i>as per design</i>
Depth of the Soil Media, DSM =	1 foot	<i>as per design</i>
Porosity of the Soil Media, nSM =	30 %	<i>typical, as per 2015 SMDM</i>
Porosity of the Drainage Layer, nDL =	40 %	<i>typical, as per 2015 SMDM</i>
Depth of Ponding above Surface =	0.4 feet	<i>as per design</i>
Volume of Soil Media, VSM =	18 cubic feet	<i>calculated</i>
Volume of Gravel Drainage Layer, VDL =	24 cubic feet	<i>calculated</i>
WQv to be treated =	20 cubic feet	<i>calculated</i>
VSM + VDL + (DP x ARG) =	66 cubic feet	<i>calculated</i>
Is WQv <= VSM + VDL + (DP x ARG)?	Yes, design OK	

Since the WQv is less than the equation above, the design is acceptable.



CONSULTANTS:
Brett Thompson, AIA, Principal
Landscape Architect
Brett Thompson Associates, LLC
480 North Broadway
Troy, NY 12180
Tel: (518) 472-8844 (office)
Brett Thompson Associates, LLC
Fax: (518) 472-8844

SURVEYOR:
Jeff Dondos, L.S.
307 Lee Avenue East
Hempstead, NY 11549
Tel: (516) 771-7200

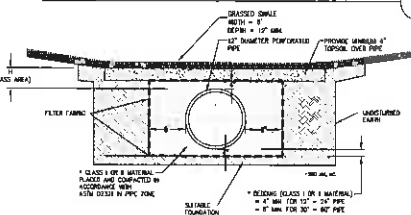
DESIGNED:
Rev. As per comments of the
Environmental Conservation Bureau

OWNERSHIP AND USE OF DOCUMENTS:
This drawing is the property of the
consultant and is loaned to the
owner for the project only. It is not to be
reproduced, copied, or used for any other
purpose without the written consent of the
consultant.

SEAL:



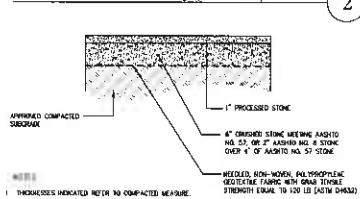
Grassed Swale with Underdrain Pipe



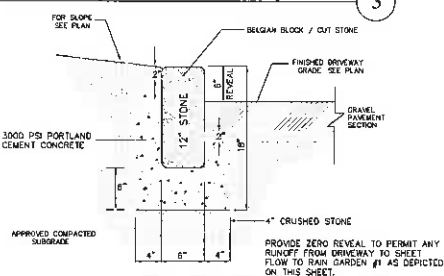
NOTES:

- ALL REFERENCES TO CLASS I OR II MATERIAL ARE PER ASTM D2021 "STANDARD PRACTICES FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
- MEASURES SHOULD BE TAKEN TO PREVENT THE MIXTURE OF NATIVE FINES INTO THE BACKFILL MATERIAL, WHEN REQUIRED. SEE ASTM D2021.
- GUTTER FABRIC:** A GEOTEXTILE FABRIC MAY BE USED AS SPECIFIED BY THE ENGINEER TO PREVENT THE MIXTURE OF FINES FROM THE NATIVE SOIL INTO THE SELECT BACKFILL MATERIAL.
- FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE, AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I OR II. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE: 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).
- SUBIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 8" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2021, LATEST EDITION.
- MINIMUM COVER:** MINIMUM COVER IN HIGH-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOUTATION.

Gravel Driveway (Pervious)



Belgian Block / Stone Curb



PLAN NOTES:

- Boundary, existing spot elevations, and locations of existing site measurements obtained from a survey prepared by Jeff Thompson, L.S. of Montgomery, N.Y. in November 2016. Existing conditions depicted on this sheet have been micro-surveyed from the spot grades by the project engineer.
- Workbooks were developed on 1/2/2016 by a professional wetlands scientist and a certified soil scientist of Brett Thompson Associates Environmental Consulting. The flags depicted on this drawing were surveyed by the project engineer.
- There is an existing ditch on the west side of the property which parallels the edge of pavement of Wilson Pond Road. It is proposed to install a 12-inch diameter perforated storm drain pipe and provide a vegetated grassed swale above the pipe in order to provide a more suitable. The perforated pipe will provide hydrologic support to the hydrologic wetland on the subject site.
- The 100-year storm runoff peak rate of flow is calculated to be 14.5 cubic feet per second. The proposed vegetated grassed swale and storm pipe will have a capacity together to convey runoff from the 100-year storm event.
- The former well on the property shall be abandoned in accordance with New York State Department of Health and Department of Environmental Conservation protocols, as well as in accordance with the Putnam County Health Department rules and regulations. Former well shall be abandoned by a licensed well driller licensed in the State of New York.
- The contractor shall be required to have a split rail present on the property in the area where a split rail or products that would be detrimental to the wetland or buffer.
- Referring to be done on the east (right) side of the house over the future driveway footprint. The proposed location is outside of the wetland boundary, though within the buffer. A final construction permit which is temporary will be installed in the future during construction.

Drainage Calculations

Drainage Calculations

Drainage area on the existing ditch is calculated based on USGS topographic mapping, site and area ground investigation, and aerial photography to be 1.01 acres.

The subject lot is about 0.04 acres in size. To be conservative, it is assumed that the entire 2.04-acre drainage area consists of one-half wetland. According to the NYS publication "Wetlands Hydrology for Small Watersheds" (NY 55), one-half acre into typically an 80% imperviousness (Table 2.2a of NY 55). Based on this, the 2.04-acre drainage area would consist of 0.722 acres of impervious surfaces and 1.318 acres of pervious surfaces.

A storm of concentration of 1.07 inches has been calculated for the drainage area by the county ditch. Using the hydrograph and frequency curves for the area above a rainfall intensity of about 0.5 inches per hour for the 25-year storm event for a base of concentration of about 18 minutes, and 6.0 inches per hour for the 100-year storm event. Accordingly, with this information, the peak rate of runoff to the existing drainage ditch may be calculated.

Rational Method Peak Rate of Runoff Analysis

The Rational Method may be used to determine the peak rate of runoff, Q , by the following equation:
 $Q = C \times I \times A$, where:
 Q = peak rate of flow, in cubic feet per second
 C = coefficient of runoff
 I = rainfall intensity
 A = area in acres

The weighted coefficient of runoff for the 2.04-acre drainage area, using a value of 0.35 for impervious surfaces and 0.1 for pervious surfaces would be: $0.35 \times 0.722 + 0.1 \times 1.318 = 0.40$. Thus, according to the Rational Method, the peak rate of flow to the existing ditch "feature" would be:
 $Q = 0.40 \times 6.0 \times 2.04 = 4.89$ cubic feet per second for the 25-year storm, and
 $Q = 0.40 \times 12.0 \times 2.04 = 9.78$ cubic feet per second for the 100-year storm.

15-53 Annex

Using 15.53, for a Type III storm with the following parameters:
a) rainfall depth of 0.5 inches for the 25-year storm event;
b) a 25-year drainage area consisting of one-half acre in a hydrologic Group C soil;
c) time of concentration of 1.07 minutes.

The resulting storm peak rate of runoff for the 25-year storm event of 8.3 cfs, and for the 100-year storm, 14.5 cfs, is the predicted flow rate.

To be conservative, 14.5 cfs is used to design the pipe and grassed swale.

Pipe and Grassed Swale Design

Subsidiary Pipe Capacity: At a slope of 0.0013 feet per foot, the 15-inch storm pipe would have a capacity (flowing full) of 2.34 cubic feet per second.
Grassed Swale Capacity: In order to convey the 100-year storm flow rate of 14.5 cubic feet per second (at 7.14 cfs + 12.4 cfs + 4.5 cfs), the grassed swale would need to have a capacity of 12.4 cubic feet per second. As shown in the calculations, this is achieved by the grassed swale at a flow depth of 1.5 feet in the upper portion of the grassed swale, and 0.5 feet in the lower portion of the grassed swale. The grassed swale has been designed to convey this rate of flow.

PROJECT NAME:
TENENPAGUAY PROPERTY
Stormwater Drainage Plan

DATE: April 4, 2016
DRAWN BY: JAP

ID: Tenenpaguay SW-04-2016

SW-1

















ROBERT LAGA
Chairman

ANTHONY DUSOVIC
Vice Chair

ROSE TROMBETTA
Secretary

DAVID KLOTZLE
Wetland Inspector

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD



60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Marc Pekowsky
Vincent Turano
Nicholas Fannin
John Starace

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: NYCDEP - Paul Costa, P.E., Portfolio Manager

Address of Applicant: 96-05 Horace Harding Expressway, 5th Flr
Corona, NY 11368

Email:

Telephone# _____ **Name and Address of Owner if different from Applicant:**

N/A

Property Address: West Branch Aux. Dam - Rte. 6 & Drewville Road **Tax Map #** West Branch Aux. Dam - 65-1-12

Agency Submitting Application if Applicable: NYCDEP

Location of Wetland: West Branch Reservoir

Size of Work Section & Specific Location: 10 boreholes, approximately 4-inch diameter. See attached locations.

Will Project Utilize State Owned Lands? If Yes, Specify: No

Type and extent of work (feet of new channel, yards of material to be removed, draining, dredging, filling, etc). A brief description of the regulated activity (attach supporting details).

Geotechnical borings (borings CDM-1 thru CDM-10 in adjacent area)

Total boring excavation volume using is 2.1 cubic yards.

Proposed Start Date: July 2016 **Anticipated Completion Date:** August 2016 **Fee Paid \$** _____

CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief, false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. As a condition to the issuance of a permit, the applicant accepts full legal responsibility for all damage, direct or indirect, or whatever nature, and by whomever suffered, arising out of the project described here-in and agrees to indemnify and save harmless the Town of Carmel from suits, actions, damages and costs of every name and description resulting from the said project.

A handwritten signature in blue ink, appearing to read "Paul Costa".
SIGNATURE

A handwritten date in blue ink, "6/10/16".
DATE

Short Environmental Assessment Form

Part 1 - Project Information

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information							
NYCDEP West Branch Auxiliary Dam Creep Remediation							
Name of Action or Project: Geological borings on land side of West Branch Auxilliary dam (West Branch Reservoir)							
Project Location (describe, and attach a location map): borings located at West Branch Auxiliary Dam; see attach boring location plan							
Brief Description of Proposed Action: The West Branch Auxiliary Dam Creep Remediation project includes improvements to the dam's embankment, and US Route 6 along its crest, to address isolated slope stability and roadway deterioration at the West Branch Auxilliary Dam. This initial assessment is for the collection of soil borings during the design phase of the project only. A more detailed assessment will be completed for the project construction at a later date. The work proposed now is collection of ten (10) soil borings ranging in depth from 6' to 65' from the landside embankment of the WB Aux Dam.							
Name of Applicant or Sponsor: Paul Costa, P.E. Portfolio Manager - NYCDEP-BEDC		Telephone: E-Mail:					
Address: 96-05 Horace Harding Expressway, 5th Floor							
City/PO: Corona		State: NY	Zip Code: 11368				
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			<table border="1" style="width: 100%; text-align: center;"> <tr> <th style="width: 50%;">NO</th> <th style="width: 50%;">YES</th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	NO	YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NO	YES						
<input checked="" type="checkbox"/>	<input type="checkbox"/>						
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval: NYSDOT highway work permit for lane closures and work on Route 6; Town of Carmel Wetland Permit for work within the 100' buffer zone of a wetland			<table border="1" style="width: 100%; text-align: center;"> <tr> <th style="width: 50%;">NO</th> <th style="width: 50%;">YES</th> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>	NO	YES	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NO	YES						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
3.a. Total acreage of the site of the proposed action? <0.25 acres							
b. Total acreage to be physically disturbed? <0.25 acres							
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? > 2000 acres							
4. Check all land uses that occur on, adjoining and near the proposed action.							
<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Residential (suburban) <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input checked="" type="checkbox"/> Other (specify): <u>reservoir/water supply</u> <input type="checkbox"/> Parkland							

	NO	YES	N/A
5. Is the proposed action, a. A permitted use under the zoning regulations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Are public transportation service(s) available at or near the site of the proposed action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places? b. Is the proposed action located in an archeological sensitive area?	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ <u>Boring in area adjacent to reservoir. Temporary disturbance only. No permanent physical change. Driller is to restore area disturbed by equipment.</u>	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input checked="" type="checkbox"/> Shoreline <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input checked="" type="checkbox"/> Wetland <input type="checkbox"/> Urban <input type="checkbox"/> Suburban			
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
16. Is the project site located in the 100 year flood plain?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? <input type="checkbox"/> NO <input type="checkbox"/> YES b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? <input type="checkbox"/> NO <input type="checkbox"/> YES If Yes, briefly describe: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____ Carmel Landfill (closed) owned by the Town of Carmel	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>
I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE Applicant/sponsor name: Paul Costa, P.E., Portfolio Manager Date: 6/10/16 Signature: <u>Paul Costa</u>		



Memorandum

To: Paul Costa, P.E. (BEDC)
Linda Singh (BEDC)

From: Sangamithra Iyer, P.E. (BEPA) *HS for*

Date: May 27, 2016

Re: Geotechnical Investigation for West Branch Auxiliary Dam – Type II
Determination

CEQR No. 16DEP090U

Emily Lloyd
Commissioner

Angela Licata
Deputy Commissioner
Sustainability
alicata@dep.nyc.gov

59-17 Junction Boulevard
Flushing, New York 11373

Tel. (718) 595-4398
Fax (718) 595-4479

The New York City Department of Environmental Protection (DEP) Bureau of Environmental Planning and Analysis (BEPA) has reviewed the proposal to advance subsurface soil investigations at the West Branch Auxiliary Dam. The subsurface investigation would be used to define subsurface conditions to support the required improvements needed to remediate soil creep that has been occurring at the auxiliary dam site.

The West Branch Auxiliary Dam is located near the southern tip of the West Branch Reservoir along Route 6 near its intersection with Drewville Road in the Town of Carmel, Putnam County, NY.

The subsurface investigation would include drilling a total of ten (10) test borings. All borings would be conducted on the crest and downstream slope of the auxiliary dam. Borings would be advanced with a track-mounted drill rig or by means of a hand auger. All borings would be approximately 4 inches in diameter and would be drilled to depths ranging from 6 feet to 65 feet that penetrates soil and rock. Nominal soil disturbance under 0.25 acres is estimated. All boreholes would be patched at the completion of the drilling.

The test borings would be advanced in July 2016 and would be completed within approximately one month. No trees would need to be removed in order to access the boring locations, and therefore there would be no impacts to potential Indiana Bat or Northern Long-eared Bat habitat. The nearest known eagle nest is over 0.5 miles from the proposed work area and is not anticipated to be affected by the proposed work. All borings are located in areas previously disturbed by the dam's original construction and, therefore, it is not anticipated that there are cultural or historic resources present. Borings are located within a regulated wetland adjacent area. Therefore, the proposed project requires approval from the Town of Carmel and potentially from NYSDEC.

Prior to starting drilling operations, the subcontractor would provide and implement an erosion and sediment control plan. Excess soil cuttings and drilling fluid, if used, would be legally disposed of by the subcontractor. No debris would be allowed to enter any waterways. Temporarily disturbed areas would be restored to their pre-existing conditions. In addition, a Maintenance and Protection of Traffic (MPT) plan would be in place.

BEPA has reviewed the proposed action and has concluded that these geological evaluations would fall within the scope of a Type II action under 6 NYCRR Part 617.5. Specifically, the proposed actions described above falls under the following category: 617.5(c)(18) "information collection including basic data collection and research, water quality and pollution studies, traffic counts, engineering studies, surveys, subsurface investigations and soils studies that do not commit the agency to undertake, fund or approve any Type I or Unlisted action." Therefore, in accordance with Part 617, this action, as a Type II action, does not require an environmental impact statement or any other determination or procedure.

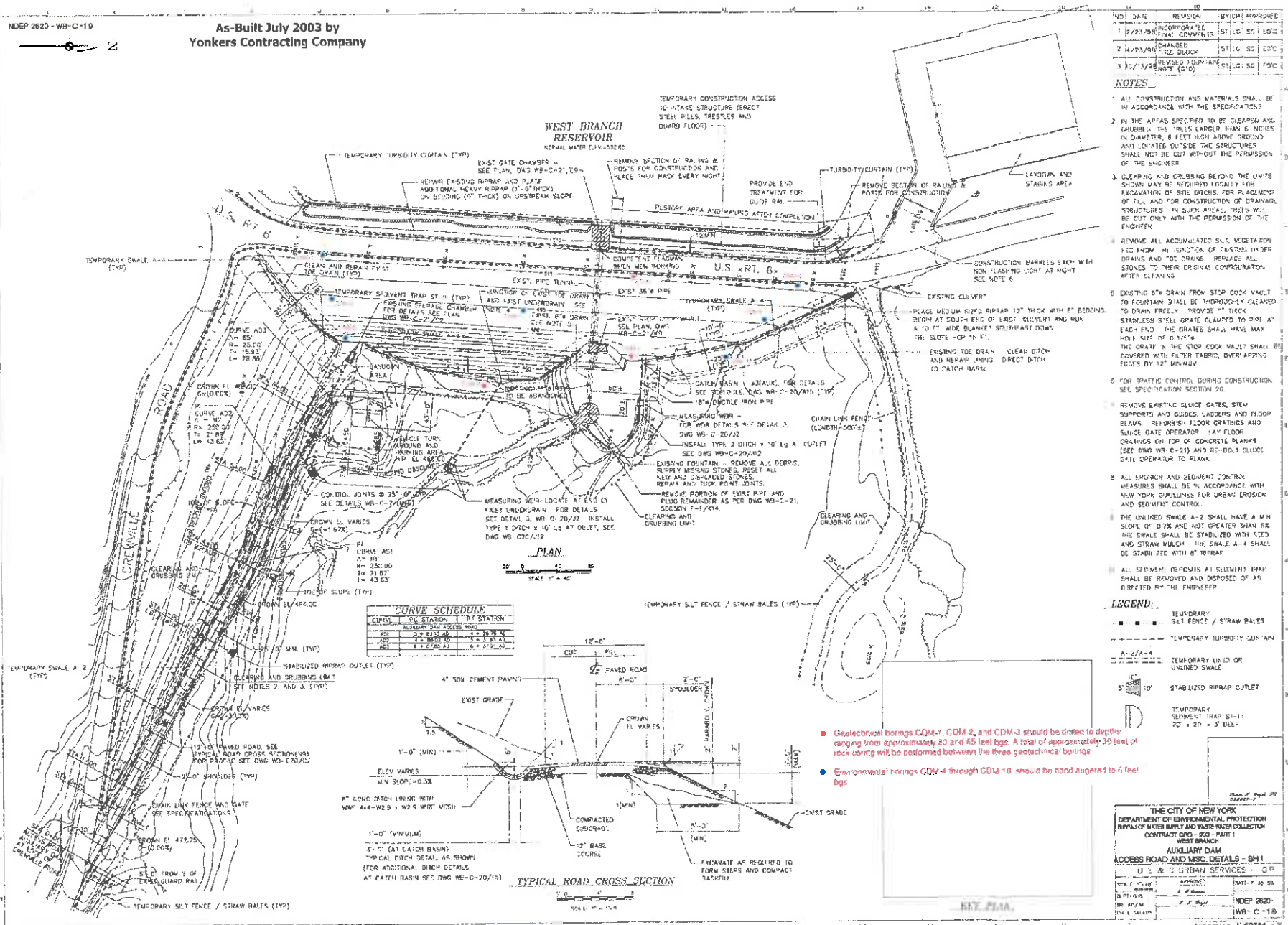
If you have any questions or comments, please contact Lorraine Farrell via email at lfarrell@dep.nyc.gov or by telephone at (718) 595-4542.

c: M. Page, Jr. (BEPA)
L. Farrell (BEPA)

ATTACHMENT 1

West Branch Auxiliary Dam Boring Location Plan

As-Built July 2003 by
Yonkers Contracting Company



ATTACHMENT 2

West Branch Auxiliary Dam Subsurface Exploration Summary Table

NYC Department of Environmental Protection
West Branch Auxiliary Dam
Carmel, New York

Summary of Proposed Subsurface Exploration Program
Table No. 2-1

Proposed Boring	Boring Location	Approximate Test Boring Depth		Purpose/Rationale
		Soil (ft)	Rock (ft)	
CDM-1	Crest; left of gate house	50	15	<ul style="list-style-type: none"> • Identify subsurface soil conditions (Fill/Natural) • Establish the top of rock and identify type of rock • Obtain rock samples to classify rock type, fracturing, weathering, etc. <ul style="list-style-type: none"> • Obtain soil samples to conduct analytical tests to identify possible contaminants in the vicinity of the dam embankment • Obtain soil samples to conduct geotechnical tests • Data gathered may be used for the following: <ul style="list-style-type: none"> o Seepage and Slope Stability Analyses o Develop Remedial Options and Design for Dam Creep Rehabilitation
CDM-2	Toe; left	20	15	
CDM-3	Toe; center	20	0	
CDM-4	Crest; right	6	0	<ul style="list-style-type: none"> • Identify subsurface soil conditions (Fill/Natural) • Obtain soil samples to conduct analytical tests to identify possible contaminants in the vicinity of the dam embankment. • Data gathered may be used for the following: <ul style="list-style-type: none"> o Develop Remedial Options and Design for Dam Creep Rehabilitation
CDM-5	Downstream slope; right	6	0	
CDM-6	Toe, right	6	0	
CDM-7	Downstream slope; center	6	0	
CDM-8	Crest; near left abutment	6	0	
CDM-9	Downstream slope; left	6	0	
CDM-10	Downstream toe; left groin	6	0	

ATTACHMENT 3

MSDS Sheets

Johnson's Revert (Drilling Mud)

Bentonite Clay

MATERIAL SAFETY DATA SHEET

SECTION I - GENERAL INFORMATION

Product Name: Plain Johnson's Revert
Date: 10/01/99
Product Class: Galactomannan
Appearance: Off white powder with bean-like odor
Manufacturer: U.S. Filter/ Johnson Screens For Emergencies contact: 800-228-5635
PO Box 64118
St. Paul, Minnesota 55164 For Information Phone:

SECTION II - COMPONENT INFORMATION

Component GUAR GUM Case Reg. Number 9000-30-0 OSHA Hazard Y Percentage >95

SECTION III - EMERGENCY RESPONSE INFORMATION

FIRST AID PROCEDURES

Eye Contact: Immediately flush eyes with water for 15 minutes and get medical attention if irritation persists.

Skin Contact: Remove contaminated clothing and wash contact area with soap and water for 15 minutes.

Ingestion: If appreciable quantities are swallowed, seek medical attention. Fluids should be ingested to prevent esophageal obstruction if dry material is ingested.

Inhalation: In case of exposure to a high concentration of dust, remove person to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, administer CPR and seek medical attention.

FIRE & EXPLOSION DATA

FLASHPOINT >93 C >200 F SETAFLASH

Extinguishing Media: Use carbon dioxide or dry chemicals for small fires; aqueous form or water for large fires.

Unusual Fire & Explosion Hazards: Like all carbohydrate and most dry organic chemicals, a potential dust explosion hazard exists if the dust concentration in the air is too high. Good housekeeping procedures are required to reduce this potential hazard.

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing

SPILL OR LEAK HANDLING INFORMATION

Steps to be taken in Case Material is Released or Spilled:

For wet material, dike spill and absorb with inert material and collect for disposal. Caution: Wet material is slippery.

For dry powder, sweep or scoop up and collect for disposal. Avoid creating dust clouds and breathing dust. Spills or releases to the environment may be reportable to the National Response Center (800-424-8802) and to the State and/or Local Agencies.

Waste Disposal Method:

Incinerate or dispose of in a landfill in accordance with Federal, State and Local Regulations.

SECTION IV - HAZARD INFORMATION

HEALTH EFFECTS

Effects of Overexposure:

Ingestion: Practically nontoxic-LD50 (rats) >5g/kg.

Inhalation: No specific information available. Dust may produce a respiratory allergenic response and/or irritation in some individuals.

Skin Absorption: No specific information available. Expected to be practically nontoxic.

Skin Contact: Essentially nonirritating, but contact may cause slight transient irritation.

Eye Contact: May cause eye injury, which may persist for several days.

Chronic Effects of Overexposure: Based on a medical study of exposed workers, some individuals may develop a respiratory allergenic response to guar dust. Persons with a history of respiratory allergies may have those conditions aggravated by exposure to guar dust.

REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: Fire, Excessive Heat
Materials to Avoid: Strong oxidizing agents
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: Fumes produced when heated to decomposition may include: carbon monoxide, carbon dioxide.

SECTION V - ACCIDENT PREVENTION INFORMATION**PERSONAL PROTECTION MEASURES**

Eye Protection: Safety Goggles

Hand Protection: For operations where contact can occur, wear impervious gloves.

Respiratory Protection: Wear a properly fitted NIOSH/MSHA approved dust or air-line respirator whenever exposure to dust is likely and where ventilation is inadequate.

FACILITY CONTROL MEASURES

Ventilation: Local Exhaust: Recommended when appropriate to control employee exposure.

Mechanical: Not recommended as the sole means of controlling employee exposure.

Other Protective Equipment: For operations where contact can occur, a safety shower and eye wash facility should be available.

SECTION VI – SPECIAL PRECAUTIONS

STORE IN DRY PLACE. Keep container closed to avoid moisture pickup. Avoid creating dust clouds and breathing dust when handling.

Explosion test data on guar and guar derivatives:	GUAR GUM	GUAR DERIVATIVES
Minimum Oxygen Concentration (%)	19	18
Minimum Ignition Energy (mj)	840	40,000 (1)
Minimum Ignition Temperature: Cloud (F)	950	950
Minimum Ignition Temperature: Layer (F)	420	390
Minimum Explosive Concentration (oz per cu ft) (2)	.08	0.29

(1) This material would not ignite at energies up to 40 joules, the highest tried. The material would ignite when subjected to a 24 watt continuous arc.

(2) In larger vessels, explosions may occur at lower dust concentrations.

SECTION VII - REGULATORY INFORMATION**DOT Proper Shipping:**

Not regulated as a hazardous material by the U.S. Dept. of Transportation (DOT) 49CFR 172.101 Hazardous Materials Table

SARA/TITLE III-CERCLA List:

Supplier notification under SARA Title III Section 313 not required for this product.

SARA Sections 311 and 312 hazard classifications for this product listed below:

Immediate (acute) health hazard Delayed (chronic) Health hazard

ADDITIONAL R-T-K COMPOSITION INFORMATION

This information is provided in conjunction with the ingredient information to meet various regulator composition requirements: No additional information applicable.

RCRA INFORMATION

Since this product is not sold as a waste, we have not tested it as a waste. Based on our knowledge of the product, its raw materials and processes employed during its manufacture, we believe it is unlikely that this product is a hazardous waste for Federal RCRA purposes. We recommend that you carry out your own evaluations prior to discarding any materials.

California Proposition 65:

This product is not subject to California Proposition 65 notification requirements.

CERCLA INFORMATION

Under EPA-CERCLA, releases to air, land or water which exceed the reportable quantity must be reported to the National Response Center (800-424-8802) This product contains no materials with reportable quantities.

U.S. Filter/ Johnson Screens. supplies this data sheet for your information, consideration and investigation. The information and recommendations contained herein have been compiled from sources believed to be reliable. No warranty, guarantee or representation is made by U.S. Filter/ Johnson Screens as to the absolute correctness or efficiency of any representation contained in this and other Safety Data Sheets nor assumes any responsibility in connection therewith; nor can it be assumed that all acceptable safety measures are contained in this and other Safety Data Sheets, or that other or additional measures may not be required under particular or exceptional conditions or circumstances. You should satisfy yourself that you have all current data relevant to your particular use.

MATERIAL SAFETY DATA SHEET

BENTONITE CLAY

MSDS

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: BENTONITE CLAY, SODIUM or CALCIUM TYPE
Product Use: Personal Care Formulations
Company Name: Natural Sourcing
Company Address: 341 Christian Street, Oxford, CT 06478, USA
Date Issued: 04/11/2013
Emergency Telephone Number: Chemtrec Tel: (800) 262-8200

2. COMPOSITION/INGREDIENT INFORMATION

Ingredients: Natural mineral, raw material, montmorillonite.
Naturally occurring hydrated aluminosilicate of sodium,
calcium, magnesium, and iron.
Preservatives & Solvents: None
Other Gases & Liquids: None
Other Solids: Respirable crystalline silica (CAS #s 7631-86-9 and
14808-60-7). Estimated quantity less than 2%.
CAS #: 1302-78-9

3. HAZARDS IDENTIFICATION

Eyes: Mechanical irritant
Skin: Possible drying resulting in dermatitis
Ingestion: Not expected to be a hazard
Short term exposure to dust levels exceeding the PEL may
cause irritation of respiratory tract resulting in a dry cough.
Inhalation: Chronic exposure to free silica contain in airborne bentonite
dust where levels are higher than TLVs may lead to
development of silicosis or other respiratory problems.
Persistent dry cough and labored breathing upon exertion are
symptomatic.
Risk of Slips/Falls: To use in complete safety, respect exposure limits.
Dampening the floor while cleaning a clay storage site may
render it extremely slippery. Dry cleaning is recommended if
people are required to continue working on the site.

4. FIRST AID MEASURES

Eyes: Flush with plenty of water or eye wash solution for 15 minutes.
Get medical attention if irritation persists.
Skin: Due to its use in cosmetics, no adverse effects are expected.
May dry mucous and skin. Wash with soap and water.

Ingestion:	No information
Inhalation:	Remove to fresh air. If symptoms of irritation persist, seek medical advice. Inhalation may aggravate respiratory illness.
Medical Conditions Generally Aggravated by Exposure:	Individuals with pulmonary and/or respiratory disease, including but not limited to asthma and bronchitis should be precluded from exposure to dust.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	N/A
Special Firefighting Procedures:	N/A
Unusual Fire & Explosion Hazards:	N/A
HMIS Rating:	0
Note:	Will not burn

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Precautions:	Avoid breathing dust. Wear respirator approved for silica bearing dust. Vacuum up to avoid generating airborne dust. Avoid using water. Slippery when wet.
Disposal:	Dispose of in accordance with Federal, State and Local Regulations.

7. HANDLING AND STORAGE

Handling

Safe Handling:	Avoid dust formation. Provide appropriate ventilation where dust forms. In the event where there is insufficient ventilation wear suitable respirator approved for silica bearing dust.
----------------	---

Storage

Requirements for Storage Areas and Containers:	Store in closed containers below 30°C in well ventilated areas. Very slippery when wet.
--	---

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Value Limits:	Respect the regulatory provisions for dust (inhalable and breathable) and crystalline silica.
Eye:	Safety glasses should be worn.
Skin/Body:	Gloves should be worn.
Respiratory:	Use NIOSH/MSHA approved respirators for silica bearing dust.
Ventilation:	Provide appropriate ventilation and filters in places where dust may be generated.
Other:	Evaluate need based on application. Slip proof shoes may be worn where spills may occur.
Work/Hygiene Practice:	Normal work and hygiene practices

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder
Color:	Grey
Odor:	Characteristic
Solubility in Water:	Insoluble
Vapor Density:	Heavier than air.

Specific Gravity: 2.45-2.6

10. STABILITY AND REACTIVITY

Stability: Stable
Incompatibility (Materials to Avoid): N/A
Hazardous Decomposition or Byproducts: N/A
Conditions to Avoid: N/A

11. TOXICOLOGICAL INFORMATION

Exposure Limits: OSHA PEL @ 8 hr. TWA) 15 mg/m³ (total dust)
5 mg/m³ (respirable dust)
Reparable crystalline silica : 0.1 mg/m³

Signs & Symptoms of Exposure: Prolonged or high exposure to respirable dust may cause shortness of breath and other respiratory effects. The international agency for research on cancer has determined that crystalline silica inhaled in the form of quartz or cristobalite in conjunction with the use of these materials from occupational sources is carcinogenic to humans. (Group 1 – carcinogenic to humans) (Refer to IARC monograph 68, Silica, some silicates and organic fibers published June 1997). The National Toxicology Program classifies respirable crystalline silica as "reasonable anticipated to be a carcinogen". For further information, see: "Adverse Effects of Crystalline Silica Exposure" published by the American Thoracic Society, medical section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, pages 761-765, 1997.

Carcinogenicity: The small quantities of crystalline silica (quartz) found in this material are, under normal conditions, naturally coated with an unremovable layer of amorphous silica and/or clay. IARC (Vol 68, 1997, pp 191-192) states that crystalline silica (quartz) can differ in toxicity depending on the minerals with which it is combined, citing studies in IARC (Vol 42, 1987, p 86) which states that the toxic effect of crystalline silica (quartz) is reduced by the protective effect.... Due mainly to clay minerals....".

Medical Conditions Generally Aggravated by Exposure: Individuals with pulmonary and/or respiratory disease, including but not limited to asthma and bronchitis should be precluded from exposure to dust.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No known ecological hazards are associated with this product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of according to local, state and federal regulations, and in a manner that does not pose a risk due to emission of breathable dust.

14. TRANSPORT INFORMATION

DOT Classification: Not a DOT Hazardous substance.

15. REGULATORY INFORMATION

No Information

16. ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.

ATTACHMENT 4

CDM Smith-prepared Work Plan Excerpts

1. Drilling Equipment and Procedures

Drill Rigs

The proposed borings will be advanced with a track-mounted drill rig operated by the selected drilling contractor or by means of a hand auger.

Drilling Operations

The borings will be advanced using flush-jointed casing with drive and wash drilling techniques using a 4-inch tri-cone roller bit. The use of hollow stem augers or open hole drilling techniques in the embankment or at the toe of the dam is not permitted. Drilling fluids, if used, will consist of water and commercially available drilling additives to form a highly colloidal gel resulting in slurry-like fluid capable of transporting drill cuttings to the surface and to support the borehole sidewalls. Oil-based drilling fluid additives will not be permitted, and the driller will be required to protect the water surface from any spilling.

Water for the drilling will be obtained from potable water sources as directed by and approved by NYCDEP. In the event that this involves pumping directly from potable water sources, all equipment (i.e. suction hose/strainers) that shall physically touch such source will be disinfected prior to use.

2. Protection of Waterways

No intrusive work will begin until the Site Specific Work Plan is approved by NYCDEP. The drilling contractor will be required to develop procedures to implement soil erosion and sedimentation control measures for all work and laydown areas around the boring locations to prevent erosion of the work area and any spills to release into the nearby waterways including the spillway, reservoir, and other water bodies. Prior to the beginning of work the driller will be required to install a secondary containment system around the drill rig and any equipment in order to protect waterways in the event of a spill.

The drill rig has two possible sources of oil/fuel on board. The first is a 15-gallon diesel tank on the drill rig. NYSDOT-certified 5-gallon diesel cans will be used to carry fuel to the rig. The second is a 30-gallon hydraulic oil tank containing an environmentally friendly oil to run the hydraulic system on the rig. A Spill Containment Kit as well as additional oil absorbent pads and booms will be available at the work area at all times. Plastic shall be made available to be placed under the rig. Hay bales may be required to contain any random material that escapes the mud tub.

3. Investigative Derived Waste

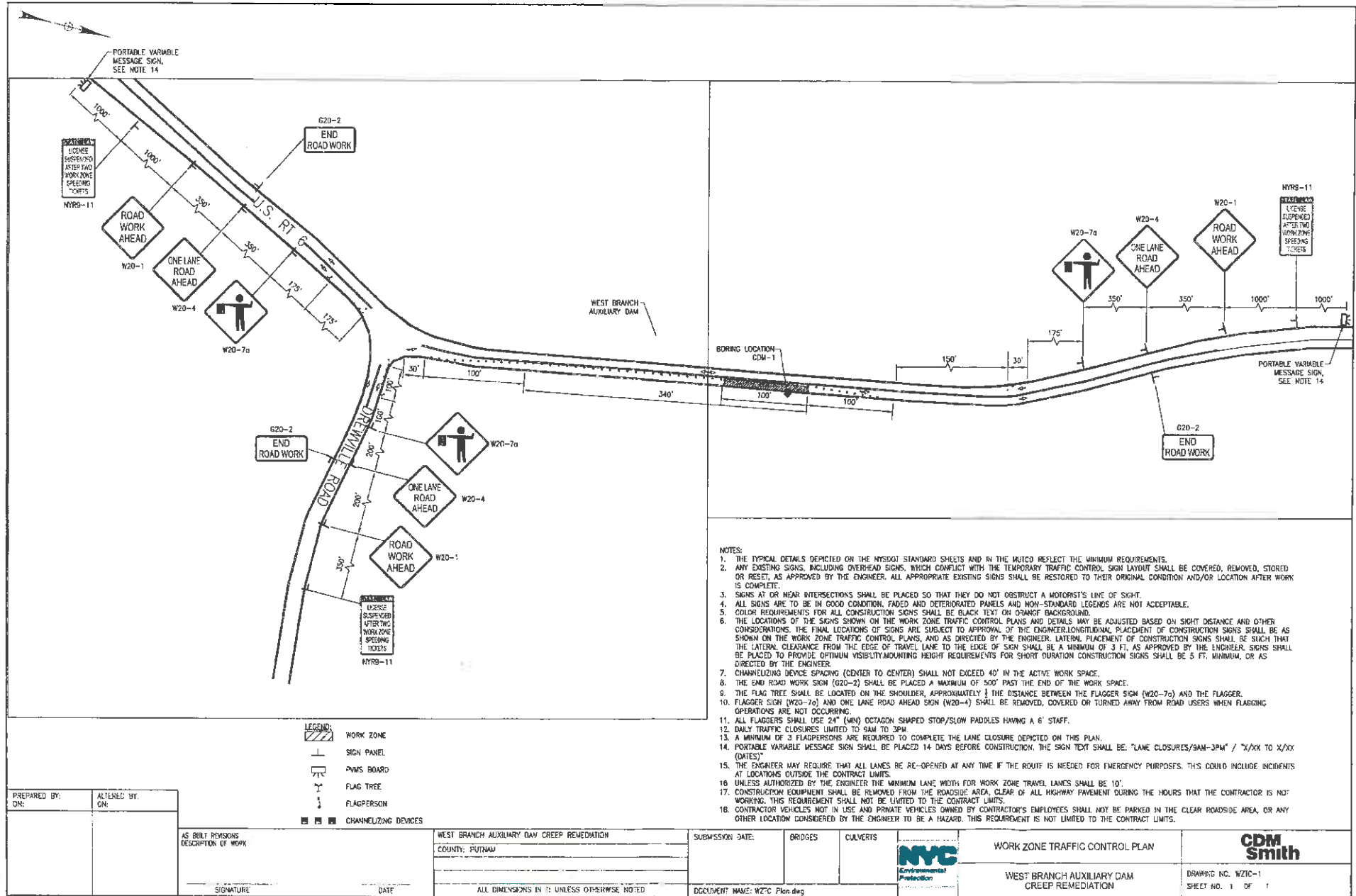
Excess soil cuttings generated during the sampling and backfill associated with the subsurface exploration program and spoils generated from grouting will be placed in appropriate containers, such as Department of Transportation (DOT) approved 55 gallon drums (DOT-Approved) and will be transported by the driller to a temporary storage area designated by CDM Smith following completion of the boring or as requested by CDM Smith. Following completion of the drilling program, arrangements will be made by the drilling contractor to dispose of any drummed soil cuttings and grout spoils. The 55-gallon drums shall be tested using proper waste profiles and manifests and transported by an authorized waste transporter, who is permitted to transport wastes based upon Part 364 of the NYSDEC Regulations, to a facility that is permitted and will accept the type of waste generated.

4. Site Restoration

The drilling contractor will make every effort to minimize any damage to the existing site when possible. In the event that damage does occur, the drilling contractor will restore the site where needed. Possible damage includes ruts, and/or damage to grass areas. Ruts will be filled in and tamped. Any areas of grass that may be damaged will be raked and reseeded. Proper housekeeping will be performed regularly (i.e. garbage picked up and bagged, equipment kept in neat order and not left lying around).

ATTACHMENT 5

West Branch Auxiliary Dam Traffic Control plan



PREPARED BY: DN:	ALIGNED BY: DN:	AS BUILT REVISIONS DESCRIPTION OF WORK		WEST BRANCH AUXILIARY DAM CREEP REMEDIATION COUNTY: PUTNAM	SUBMISSION DATE:	BRIDGES	CULVERTS	WORK ZONE TRAFFIC CONTROL PLAN	CDM Smith
SIGNATURE		DATE	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	DOCUMENT NAME: WZC Plan.dwg			WEST BRANCH AUXILIARY DAM CREEP REMEDIATION	DRAWING NO. WZC-1 SHEET NO. 1 OF 1	

ROBERT LAGA
Chairman

ANTHONY DUSOVIC
Vice Chair

ROSE TROMBETTA
Secretary

DAVID KLOTZLE
Wetland Inspector

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD



60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Marc Pekowsky
Vincent Turano
Nicholas Fannin
John Starace

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: RALPH LOEWENBERG

Address of Applicant: 260 W. Lake Blvd MAHOPAC Email: _____

Telephone# _____

Name and Address of Owner if different from Applicant: _____

Property Address: 260 W. LAKE BLVD Tax Map # 64.16-1-30

Agency Submitting Application if Applicable: RAYEX DESIGN GROUP

Location of Wetland: LAKE MAHOPAC

Size of Work Section & Specific Location: BATHHOUSE

Will Project Utilize State Owned Lands? If Yes, Specify: NO

Type and extent of work (feet of new channel, yards of material to be removed, draining, dredging, filling, etc). A brief description of the regulated activity (attach supporting details).

CONSTRUCT BATHHOUSE OVER EXISTING BOAT HOUSE USING SAME
FOOT PRINT. NO EXCAVATION

Proposed Start Date: 7/20/16 Anticipated Completion Date: 9/2/16 Fee Paid \$225.00

CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief, false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. As a condition to the issuance of a permit, the applicant accepts full legal responsibility for all damage, direct or indirect, or whatever nature, and by whomever suffered, arising out of the project described here-in and agrees to indemnify and save harmless the Town of Carmel from suits, actions, damages and costs of every name and description resulting from the said project.

[Signature]
SIGNATURE

6/8/16
DATE

Short Environmental Assessment Form

Part 1 - Project Information

Instructions for Completing

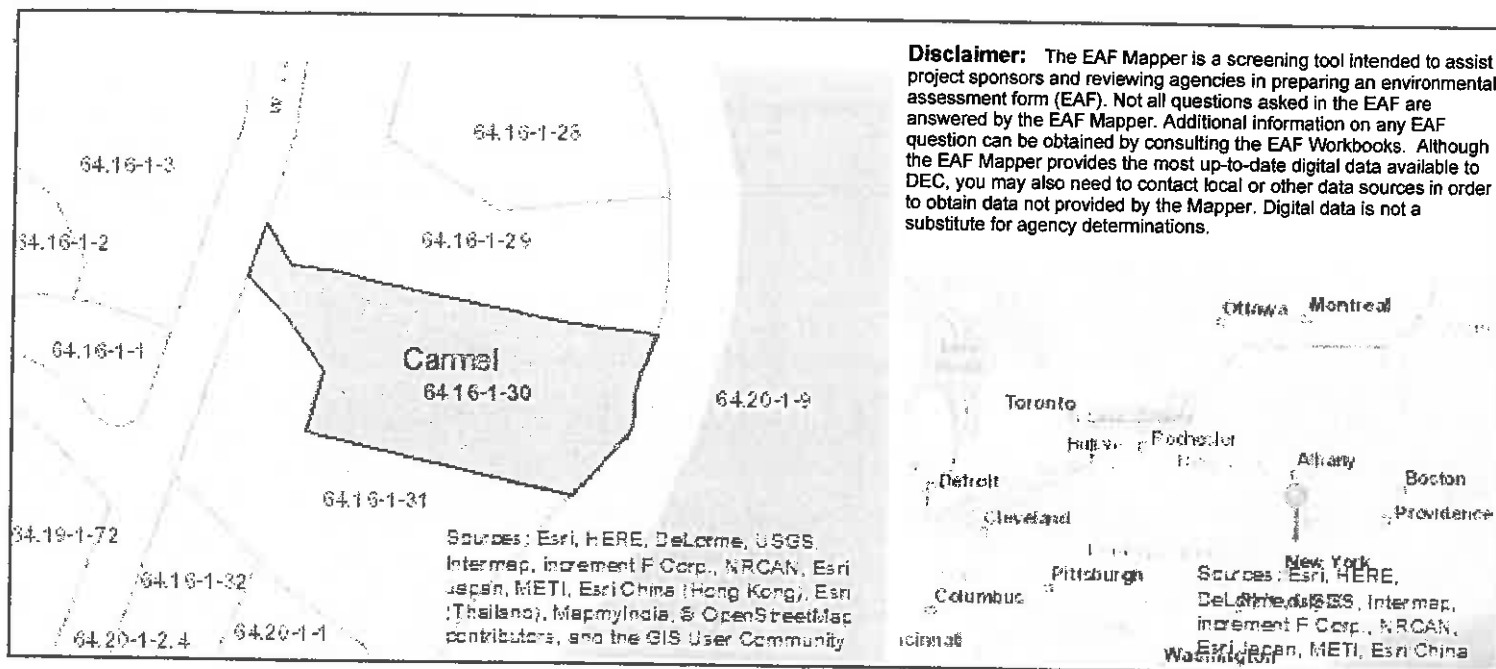
Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

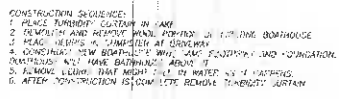
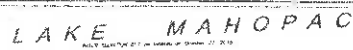
Part 1 - Project and Sponsor Information							
LOEWENBERG BATH HOUSE							
Name of Action or Project: LOEWENBERG							
Project Location (describe, and attach a location map): 260 W. LAKE BLVD, MAHOPAC, NY 10541. TAX MAP # 64.16-1-30							
Brief Description of Proposed Action: BUILD BATH HOUSE OVER EXISTING BOAT HOUSE, SAME FOOT PRINT, NO EXCAVATION OR FOUNDATION WORK.							
Name of Applicant or Sponsor: WILLIAM BESHARAT		Telephone: E-Mail:					
Address: 266 SHEAR HILL ROAD							
City/PO: MAHOPAC		State: NY	Zip Code: 10541				
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">NO</td> <td style="text-align: center;">YES</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	NO	YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NO	YES						
<input checked="" type="checkbox"/>	<input type="checkbox"/>						
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval:			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">NO</td> <td style="text-align: center;">YES</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	NO	YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NO	YES						
<input checked="" type="checkbox"/>	<input type="checkbox"/>						
3.a. Total acreage of the site of the proposed action?		1.5 acres					
b. Total acreage to be physically disturbed?		0 acres					
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		1.5 acres					
4. Check all land uses that occur on, adjoining and near the proposed action.							
<input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban) <input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Parkland							

5. Is the proposed action, a. A permitted use under the zoning regulations?	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
b. Are public transportation service(s) available at or near the site of the proposed action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____	NO <input checked="" type="checkbox"/>	YES <input type="checkbox"/>	
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places? b. Is the proposed action located in an archeological sensitive area?	NO <input checked="" type="checkbox"/> <input type="checkbox"/>	YES <input type="checkbox"/> <input checked="" type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____	NO <input type="checkbox"/> <input checked="" type="checkbox"/>	YES <input checked="" type="checkbox"/> <input type="checkbox"/>	
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input type="checkbox"/> Shoreline <input type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Suburban			
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>	
16. Is the project site located in the 100 year flood plain?	NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>	
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: _____	NO <input type="checkbox"/> <input type="checkbox"/>	YES <input type="checkbox"/> <input type="checkbox"/>	

18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: _____ _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____ _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____ _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE Applicant/sponsor name: <u>WILLIAM BESHARAT</u> Date: <u>6/8/2016</u> Signature: _____		



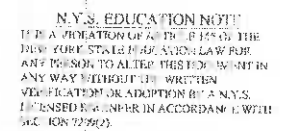
Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National Register of Historic Places]	No
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	Yes
Part 1 / Question 16 [100 Year Flood Plain]	Yes
Part 1 / Question 20 [Remediation Site]	No



- GENERAL NOTES:
1. THE MAINTENANCE IS REQUIRED TO DEMONSTRATE THE PROJECT
2. SPILL KIT IS PROVIDED IN CASE OF EMERGENCY INFO.
3. PAVING MATERIALS.
4. ONE PARKING SPACE IS REQUIRED FOR EACH 700 SF OF PROPERTY
5. 700 SF 700 = 0.7 PARKING SPACE REQUIRED. 5 PARKING SPACE PROVIDED.

BULK REGULATION INLET FOR PROPOSED ADDITION ON			
	ALLOWED	REMOVED	REMAINING
FROM WPT	40 FT	50 FT	CONCRETE
WPT YARD	70 FT	100 FT	CONCRETE
SEWER	0 FT	0 FT	15.7 VARIANCE NEEDED
OFF STREET PARKING	0 FT	115 FT	15.7 VARIANCE NEEDED
			VARIANCE FOR BS

<p> W 100 1-2 W 100 1-3 W 100 1-4 W 100 1-5 </p>	<p> W 100 1-7 W 100 1-8 W 100 1-9 W 100 1-10 </p>	<p> W 100 1-11 W 100 1-12 W 100 1-13 W 100 1-14 </p>	<p> W 100 1-15 W 100 1-16 W 100 1-17 W 100 1-18 </p>
<p> W 100 1-19 W 100 1-20 W 100 1-21 W 100 1-22 </p>	<p> W 100 1-23 W 100 1-24 W 100 1-25 W 100 1-26 </p>	<p> W 100 1-27 W 100 1-28 W 100 1-29 W 100 1-30 </p>	<p> W 100 1-31 W 100 1-32 W 100 1-33 W 100 1-34 </p>
<p> W 100 1-35 W 100 1-36 W 100 1-37 W 100 1-38 </p>	<p> W 100 1-39 W 100 1-40 W 100 1-41 W 100 1-42 </p>	<p> W 100 1-43 W 100 1-44 W 100 1-45 W 100 1-46 </p>	<p> W 100 1-47 W 100 1-48 W 100 1-49 W 100 1-50 </p>
<p> W 100 1-51 W 100 1-52 W 100 1-53 W 100 1-54 </p>	<p> W 100 1-55 W 100 1-56 W 100 1-57 W 100 1-58 </p>	<p> W 100 1-59 W 100 1-60 W 100 1-61 W 100 1-62 </p>	<p> W 100 1-63 W 100 1-64 W 100 1-65 W 100 1-66 </p>
<p> W 100 1-67 W 100 1-68 W 100 1-69 W 100 1-70 </p>	<p> W 100 1-71 W 100 1-72 W 100 1-73 W 100 1-74 </p>	<p> W 100 1-75 W 100 1-76 W 100 1-77 W 100 1-78 </p>	<p> W 100 1-79 W 100 1-80 W 100 1-81 W 100 1-82 </p>
<p> W 100 1-83 W 100 1-84 W 100 1-85 W 100 1-86 </p>	<p> W 100 1-87 W 100 1-88 W 100 1-89 W 100 1-90 </p>	<p> W 100 1-91 W 100 1-92 W 100 1-93 W 100 1-94 </p>	<p> W 100 1-95 W 100 1-96 W 100 1-97 W 100 1-98 </p>
<p> W 100 1-99 W 100 1-100 W 100 1-101 W 100 1-102 </p>	<p> W 100 1-103 W 100 1-104 W 100 1-105 W 100 1-106 </p>	<p> W 100 1-107 W 100 1-108 W 100 1-109 W 100 1-110 </p>	<p> W 100 1-111 W 100 1-112 W 100 1-113 W 100 1-114 </p>



CONSULTING ENGINEER	
201 PEARL HARBOR - SANITARY, INC. 1945 - 1945-5-1-1000	
OWNER	WILLIAM LEWIS PERC 200 W. 14TH ST MANASSAS, VA 20101
DATE	1945-5-1-1000
PROJECT	REPAIRS OF A EXISTING BATHHOUSE, A SECOND FLOOR ALLIANCE BATHHOUSE
SCALE	AS SHOWN

SECTION: 04.15 BLOCK: 1 LOT: 50 TOWN OF CARMEL

ROBERT LAGA
Chairman

ANTHONY DUSOVIC
Vice Chair

ROSE TROMBETTA
Secretary

DAVID KLOTZLE
Wetland Inspector

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD



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BOARD MEMBERS

Edward Barnett
Marc Pekowsky
Vincent Turano
Nicholas Fannin
John Starace

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: PATRICK McGOVERN

Address of Applicant: 208 DAISY LANE, 10512 Email: _____

Telephone# _____ Name and Address of Owner if different from Applicant: _____

Property Address: 208 DAISY LANE CARMEL, 10512 Tax Map # 7719-1-30.2

Agency Submitting Application if Applicable: _____

Location of Wetland: DAISY LANE + STONELEIGH AVE. (SOUTHWEST PROP LINE)

Size of Work Section & Specific Location: 900 SQUARE FOOT GARAGE NEXT TO DRIVEWAY

Will Project Utilize State Owned Lands? If Yes, Specify: NO

Type and extent of work (feet of new channel, yards of material to be removed, draining, dredging, filling, etc). A brief description of the regulated activity (attach supporting details).

ADDITION OF A DETACHED 24x36 GARAGE ADJACENT
TO EXISTING DRIVEWAY

Proposed Start Date: 7/2016 Anticipated Completion Date: 10/2016 Fee Paid \$ _____

CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief, false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. As a condition to the issuance of a permit, the applicant accepts full legal responsibility for all damage, direct or indirect, or whatever nature, and by whomever suffered, arising out of the project described here-in and agrees to indemnify and save harmless the Town of Carmel from suits, actions, damages and costs of every name and description resulting from the said project.

SIGNATURE

6/9/16

DATE

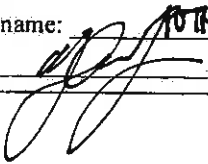
617.20
Appendix B
Short Environmental Assessment Form

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information							
Name of Action or Project: PATRICK MCGOVERN							
Project Location (describe, and attach a location map): 208 DAISY LANE, CARMEL, NY 10912							
Brief Description of Proposed Action: CONSTRUCTION OF A 24'x36' DETACHED GARAGE ON AN EXISTING DEVELOPED LOT. ADJACENT TO EXISTING DRIVEWAY.							
Name of Applicant or Sponsor: POTNAM ENGINEERING PLLC		Telephone: 					
Address: 4 OLD RT 6		E-Mail: 					
City/PO: BREWSTER		State: NY	Zip Code: 10509				
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">NO</td> <td style="width: 50%; text-align: center;">YES</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"> </td> </tr> </table>	NO	YES	X	
NO	YES						
X							
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval: TOWN ENVIRONMENTAL BOARD + BUILDING PERMIT			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">NO</td> <td style="width: 50%; text-align: center;">YES</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table>	NO	YES		X
NO	YES						
	X						
3.a. Total acreage of the site of the proposed action?		2.12 acres					
b. Total acreage to be physically disturbed?		0.02 acres					
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		2.12 acres					
4. Check all land uses that occur on, adjoining and near the proposed action.							
<input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban) <input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Parkland							

18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: _____	NO	YES
	X	
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____	NO	YES
	X	
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	NO	YES
	X	
I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE		
Applicant/sponsor name: <u>ATNAM ENGINEERING PLLC</u>	Date: <u>6/9/2016</u>	
Signature: 		

Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	X	
2. Will the proposed action result in a change in the use or intensity of use of land?	X	
3. Will the proposed action impair the character or quality of the existing community?	X	
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?	X	
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?	X	
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?	X	
7. Will the proposed action impact existing:		
a. public / private water supplies?	X	
b. public / private wastewater treatment utilities?	X	
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?	X	
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?	X	

5. Is the proposed action, a. A permitted use under the zoning regulations?	NO	YES	N/A
b. Consistent with the adopted comprehensive plan?		X	
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO	YES	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO	YES	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	NO	YES	
b. Are public transportation service(s) available at or near the site of the proposed action?	X		
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	X		
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____	NO	YES	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: <u>NOT NEEDED</u>	NO	YES	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: <u>NOT NEEDED</u>	NO	YES	
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	NO	YES	
b. Is the proposed action located in an archeological sensitive area?	X		
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	NO	YES	
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____	X		
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input type="checkbox"/> Shoreline <input type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Suburban			
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO	YES	
16. Is the project site located in the 100 year flood plain?	NO	YES	
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: <u>ROOF LEADERS</u> <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES	NO	YES	

	No, or small impact may occur	Moderate to large impact may occur
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?	X	
11. Will the proposed action create a hazard to environmental resources or human health?	X	

Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

- ☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.
- ☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.

Name of Lead Agency

Date

Print or Type Name of Responsible Officer in Lead Agency

Title of Responsible Officer

Signature of Responsible Officer in Lead Agency

Signature of Preparer (if different from Responsible Officer)

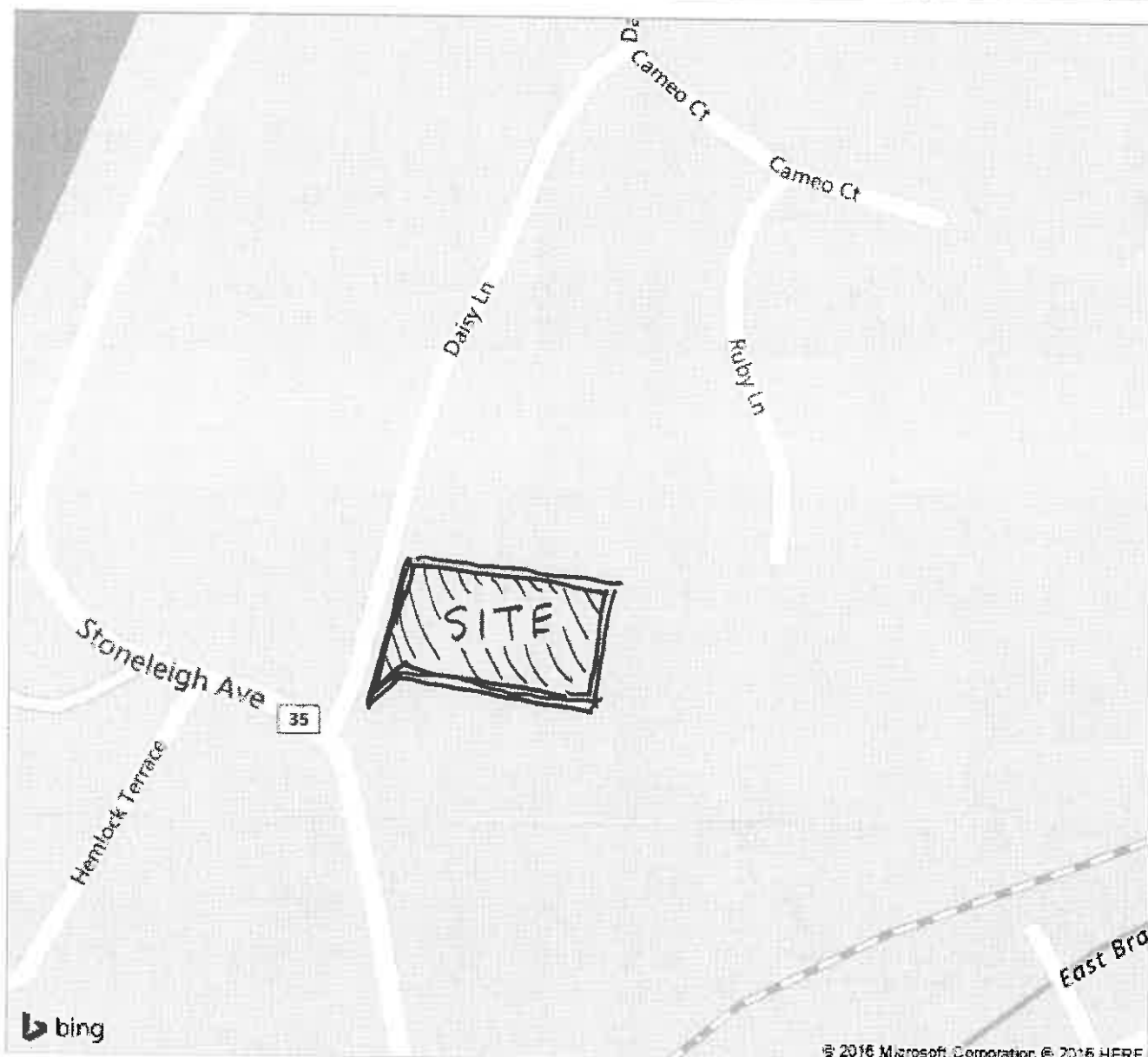


Carmel, NY

PATRICK McGOVERN
208 DAISY LANE
TM# 77.19-1-30.2



On the go? Use m.bing.com to find maps, directions, businesses, and more



**STATEMENT OF USE
TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD**

PATRICK McGOVERN

208 DAISY LANE

TM# 77.19-1-30.2

The proposed action consists of constructing a detached 24' x 36' garage at an existing home.

The property is 2.14 acres and is bounded on the west by a town wetland along the road side drainage.

The site is constrained and the only area to install the garage is to the right top of the driveway. This will still allow turning and use of the driveway to access the garage.

Disturbance is the minimum we can achieve. The disturbance within the buffer is 1400 sq.ft. The garage is raised in the rear to reduce grading. Erosion control measures as shown on the drawing will be used to reduce any impact to the Town wetland.

1. ZONING REQUIREMENTS:

FRONT: 40 FT. REQUIRED, 114 FT. PROPOSED
SIDE: 20 FT. REQUIRED, 78 FT. PROPOSED
REAR: 20 FT. REQUIRED, 216 FT. PROPOSED

MAXIMUM BUILDING HEIGHT:
95 FT. PERMITTED 20 FT. PROPOSED

MAXIMUM LOT COVERAGE:
15% PERMITTED 4% PROPOSED (DRIVEWAY AND BUILDINGS)

CYC - CHARLTON-CHATFIELD COMPLEX, ROLLING, VERY ROCKY
SUB - SUTTON LOAM, 3 TO 8 PERCENT SLOPES

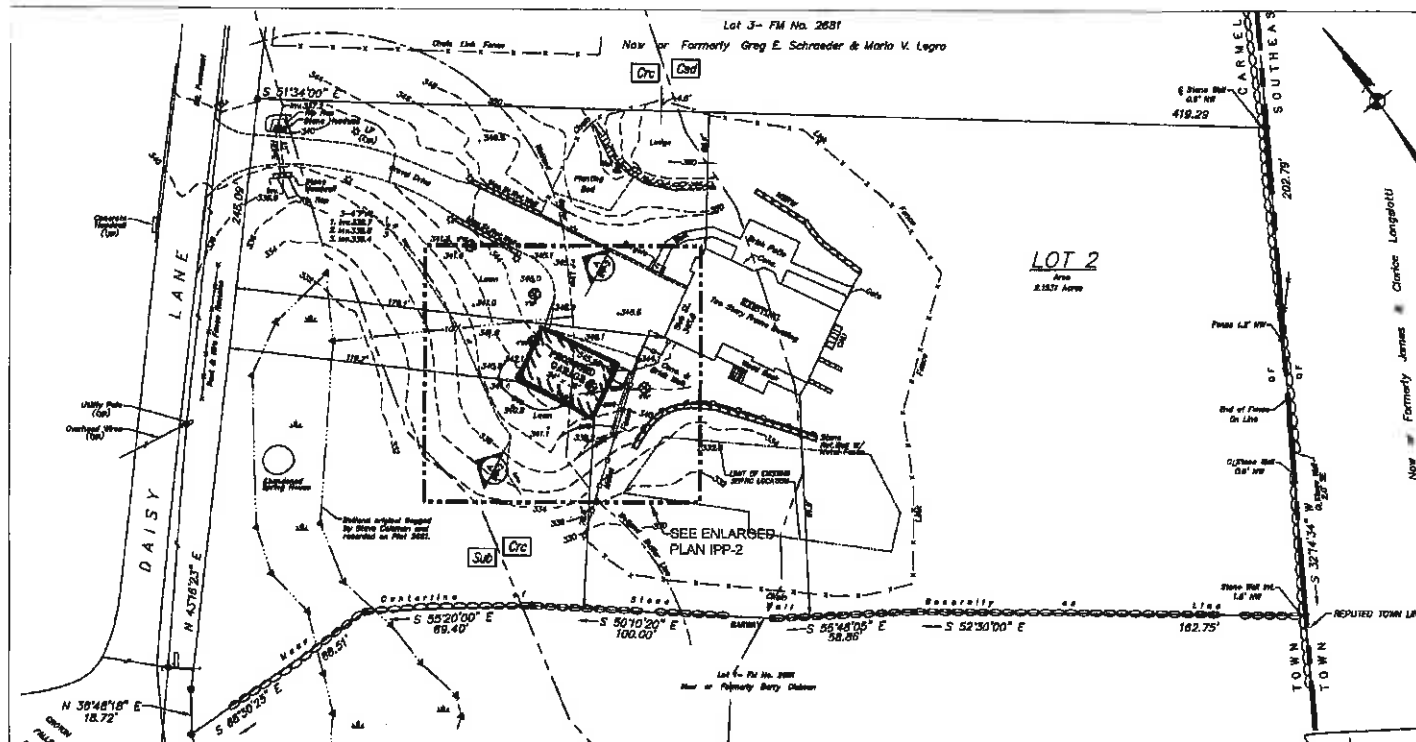
1. BOUNDARY AND SITE INFORMATION TAKEN FROM A PLAN ENTITLED "TOPOGRAPHIC SURVEY OF PROPERTY FOR PATRICK MCGOVERN, DATED MAY 26, 2016, AS PREPARED BY INSITE SURVEYING ENGINEERING AND LANDSCAPE ARCHITECTURE, CARMEL, NY

2. SITE DATA: CARNEL TAX MAP No. TJM-1-302
LOT AREA = 2.15 ACRES

5. THE APPLICANT SHALL NOTIFY THE TOWN OF CARMEL ENGINEERING DEPARTMENT AT LEAST 3 DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK ON THE SITE. CONTACT NUMBER IS 845-828-1900, EXTENSION 185.

4. A WETLAND EXISTS WITHIN 100 FEET OF PROPOSED WORK. A PERMIT FROM THE "ECS" IS REQUIRED

EXISTING IMPERVIOUS SURFACES =	6,400 S.F.
PROPOSED IMPERVIOUS SURFACES =	1,100 S.F.
TOTAL IMPERVIOUS SURFACES =	7,500 S.F.



SCALE: 1" = 50'

QUINCY ENGINEERING
ENGINEERS and ARCHITECTS
4 OLD ROUTE 6, BREWSTER, NEW YORK 13504
(518) 274-6784 FAX (518) 274-6784

PLANS PREPARED FOR:
THE MCGOVERN RESIDENCE
208 DAISY LANE
TOWN OF GARNET
PUTNAM COUNTY, NEW YORK
TAX MAP No. 77.19, BLOCK 1, LOT 30.2

OVERALL
PLOT PLAN

PROJECT

DATE: 12 JUNE 16

PREPARED BY: P.K.	DRAWN BY: U
----------------------	----------------

PE No. 8283

SHEET 1 OF 4

LEGEND:

---105---	EXISTING CONTOURS
---(102)---	PROPOSED CONTOUR
+(10250)	PROPOSED SPOT ELEVATION
=====	LIMIT OF CONSTRUCTION
-----	SILT FENCE
---o---o---	ORANGE SAFETY FENCE
→	SWALE

DISTURBED AREA:

AREA OF DISTURBANCE WITHIN WETLAND BUFFER = 1420 SQ.FT. = 0.03 AC.

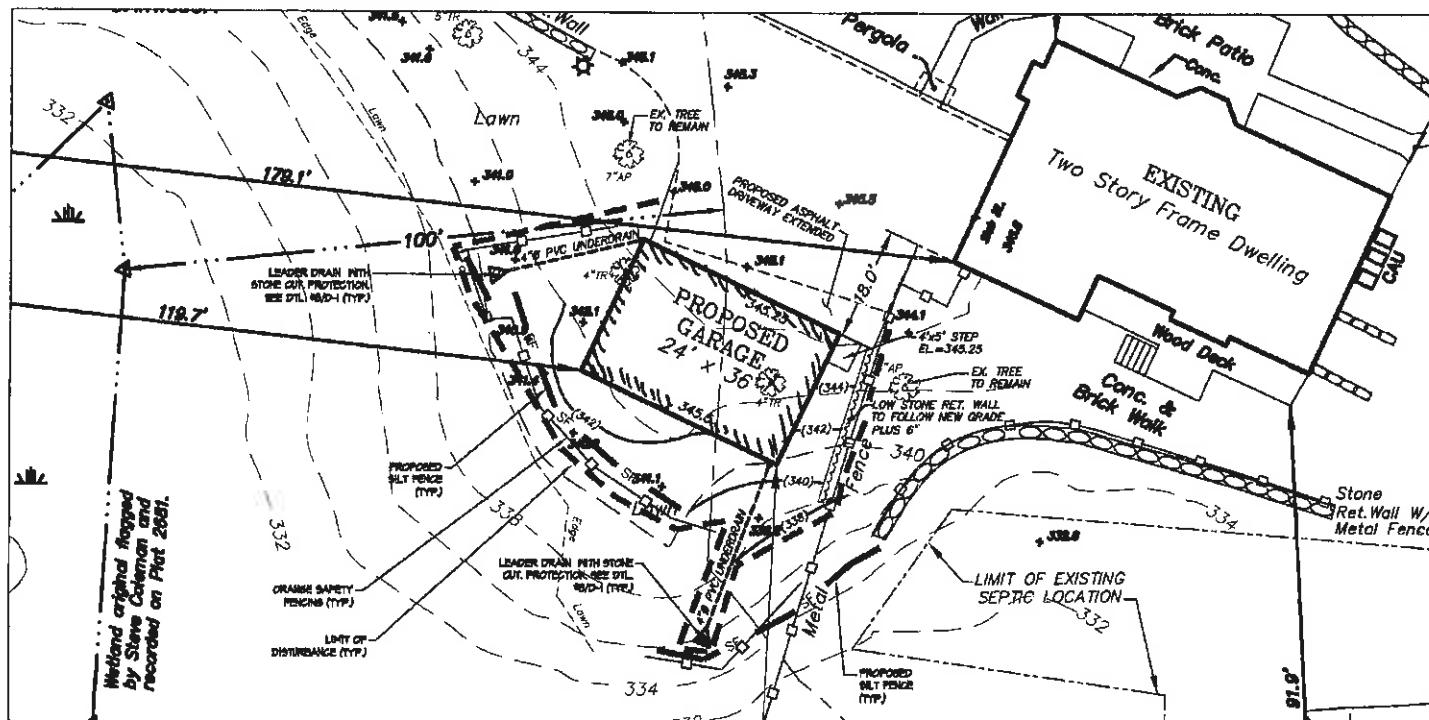
TOTAL FILL TO SITE = +/- 50 C.Y.

SEQUENCE OF CONSTRUCTION:

TOTAL AREA OF DISTURBANCE = 0.03 AC.

1. LIMITS OF CONSTRUCTION SHALL BE LOCATED IN THE FIELD AND DELINEATED WITH ORANGE SAFETY FENCE.
2. DRIVEWAY SHALL BE KEPT BROOM CLEAN OF ANY SEDIMENT OR SOIL.
3. SEDIMENT BARRIERS, INCLUDING SILT FENCE, SHALL BE PLACED DIRECTLY DOWN GRADE OF AREAS OF PROPOSED DISTURBANCE AND WHERE INDICATED ON THE PLANS.
4. CLEAR AND GRUB AREA AS REQUIRED TO COMPLETE PROPOSED WORK.
5. ROUGH GRADE THE SITE WORKING FROM LOWER AREA TO UPPER AREA.
6. STABILIZE DISTURBED AREAS IN ACCORDANCE WITH THE SLOPE STABILIZATION NOTES WITHIN ONE WEEK FOLLOWING EARTHWORK.

7. INSTALL PROPOSED GARAGE FOUNDATION.
8. CONSTRUCT GARAGE.
9. INSTALL DRIVEWAY EXTENSION TO GARAGE.
10. COMPLETE FINAL GRADINGS AS SHOWN ON THE PLAN. TOPSOIL, AND STABILIZE ALL DISTURBED AREAS PER SLOPE STABILIZATION NOTES.
11. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES TO INCLUDE SILT FENCE.
12. UPON COMPLETION OF ALL ABOVE ACTIVITIES AND SATISFACTORY ESTABLISHMENT OF VEGETATION ON ALL DISTURBED AREAS, CONTRACTOR TO PERFORM FINAL CLEAN UP OF THE PROJECT SITE.



ENLARGED PLOT PLAN

SCALE: 1" = 20'

PUTNAM ENGINEERS
ENGINEERS AND ARCHITECTS
4 OLD ROUTE 6, BIRMINGHAM, NEW YORK 10801
(845) 274-6784 FAX (845) 274-6784

PLANS PREPARED FOR:
THE MCGOVERN RESIDENCE
208 DAISY LANE
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP NO. 11.1, BLOCK 1, LOT 30.2

ENLARGED
PLOT
PLAN

DATE: 12 JUNE 16
PREP. BY: RJC
DRAWN BY: JJC
PE No. 0203

IPP-2

SHEET 2 OF 4

TOWN of CARMEL GENERAL EROSION CONTROL NOTES:

- CONSTRUCTION EQUIPMENT SHALL NOT UNNECESSARILY CROSS LIVE STREAMS EXCEPT BY MEANS OF BRIDGES AND CULVERTS OR OTHER APPROVED METHODS.
- WHENEVER FEASIBLE, NATURAL VEGETATION SHOULD BE RETAINED AND PROTECTED.
- ONLY THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT.
- WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.
- THE PERMANENT FINAL VEGETATION AND STRUCTURES SHALL BE INSTALLED AS SOON AS PRACTICAL AND AS MAY BE DIRECTED BY THE ENGINEER.

EROSION CONTROL GENERAL NOTES:

- THE SITE SHALL BE DISTURBED ONLY AS INDICATED ON THESE PLANS.
- THE CONTRACTOR SHALL MAKE AVAILABLE ON-SITE, ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO EFFECT EMERGENCY REPAIR.
- THE CONTRACTOR SHALL PROVIDE A TELEPHONE NUMBER TO THE DIRECTOR OF CODE ENFORCEMENT FOR USE IN EMERGENCY SITUATIONS.
- FOR EROSION AND SEDIMENT CONTROL DETAILS, REFER TO DRAWINGS D-1.
- CONTRACTOR SHALL STOCKPILE SOIL ONLY IN DESIGNATED STOCKPILE AREAS. ALL OTHER MATERIALS SHALL BE EXCAVATED, MOVED, COMPACTED IN PLACE AND STABILIZED IN ACCORDANCE WITH SLOPE STABILIZATION NOTES AT TIME OF PLACEMENT.
- CONTRACTOR SHALL FOLLOW OSHA REQUIREMENTS FOR CONSTRUCTION ACTIVITIES, INCLUDING ADEQUATE PROTECTIVE SYSTEM FOR TRENCHING AND EXCAVATIONS.
- EMBANKMENT FILL MATERIAL SHALL BE FREE FROM ALL ROOTS, VEGETATION AND OVERSIZED STONES. FILL TO BE PLACED IN 12 INCH LIFTS AND COMPACTED TO 95 PERCENT PROCTOR BY MECHANICAL MEANS. FILL TO BE PLACED ON SUITABLE INORGANIC SUB GRADE.
- ALL DISTURBED AREAS ARE CONSIDERED "STABILIZED" WHEN 80 PERCENT OF UNIFORM, PERENNIAL VEGETATIVE COVER IS ACHIEVED OR EQUIVALENT STABILIZATION MEASURES (SUCH AS MULCHES, EROSION CONTROL BLANKET, ETC.) HAVE BEEN PROPERLY EMPLOYED.

SLOPE STABILIZATION NOTES:

1. TEMPORARY VEGETATIVE COVER:

- SCARIFY COMPACTED SOIL AREAS.
- LIME AS REQUIRED TO pH 6.5.
- FERTILIZE WITH 10-10-10 AT THE RATE OF 200 LBS/AC.
- INCORPORATE AMENDMENTS INTO SOIL WITH DISC HARROW.
- SEED AS FOLLOWS:

- * SPRING/SUMMER/EARLY FALL PLANTING: ANNUAL RYEGRASS AND CEREAL OATS AT 80 LBS/AC
- * LATE FALL/EARLY WINTER PLANTING: ARROOSTOOK WINTER RYE AT 100 LBS/AC

- MULCH SEED WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.
- DURING WINTER CONSTRUCTION OR PERIODS OF WET WEATHER, TEMPORARY SLOPE STABILIZATION SHALL BE PROVIDED BY EITHER A ROLLED EROSION CONTROL PRODUCT OR A HEAVY MULCH LAYER SUITABLY ANCHORED. THE CONTRACTOR MUST RESEED THE AREA IN THE SPRING WITH THE APPROPRIATE SEEDING.
- DURING DRY WEATHER CONSTRUCTION, ALL SEEDED AREAS ARE TO BE ADEQUATELY WATERED TO ENSURE VEGETATED COVER.

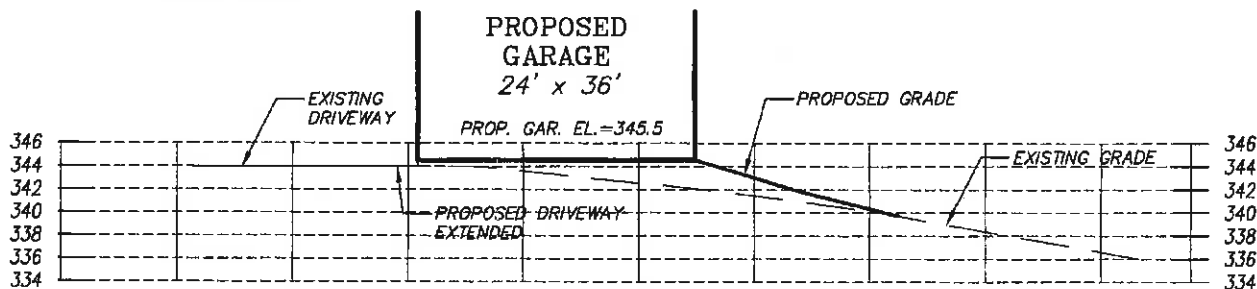
2. PERMANENT VEGETATIVE COVER:

- GRADE TO FINISHED SLOPES.
- SCARIFY COMPACTED SOIL AREAS.
- TOPSOIL WITH NOT LESS THAN FOUR (4) INCHES OF SUITABLE TOPSOIL MATERIAL.
- LIME AS REQUIRED TO pH 6.5.
- FERTILIZE WITH 10-6-4 AT THE RATE OF 200 LBS/AC.
- SEED AS FOLLOWS:

TYPE I FOR USE ON MOVED AREAS:	SEED	LBS/AC
	KENTUCKY BLUE GRASS	20
	CREeping RED FESCUE	28
	RED TOP OR RYE GRASS	5

TYPE II FOR USE ON NON-MOVED AREAS:
USE "NEW ENGLAND EROSION CONSERVATION/WILDLIFE" SEED MIX (NEW ENGLAND WETLAND PLANTS, INC.) OR EQUIVALENT. APPLICATION RATE OF 25 LBS/ACRE. WILDFLOWER AREAS ARE TO BE MOVED ONCE PER YEAR IN LATE FALL.

- MULCH SEED WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.
- FOR DISTURBED AREAS WITH SLOPES GREATER THAN 1V:3H OR WHEN SLOPES ARE EQUAL TO 1V:3H AND THE HEIGHT OF THE SLOPE EXCEEDS 6 FEET, INSTEAD OF MULCHING, EROSION CONTROL BLANKET SHALL BE USED.



A **SITE SECTION**
SCALE: 1" = 10'-0"

PUTNAM ENGINEERING
ENGINEERS AND ARCHITECTS
4 OLD ROUTE 8, BIRMINGHAM, NEW YORK 12004
(518) 274-6761 FAX (518) 274-6761

PLANS PREPARED FOR:
THE MCGOVERN RESIDENCE
208 DUNSTON LANE
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP No. 1119, BLOCK 1, LOT 302

PROJECT:

SITE SECTION
and NOTES

PROJECT:

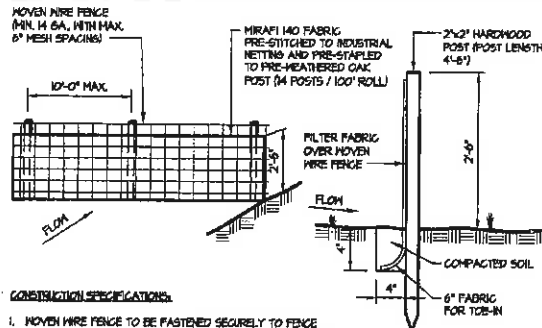
DATE: 15 JUN 16

PREP. BY: RJC DRAWN BY: LL

PE No. 8283

S-1

SHEET 3 OF 4

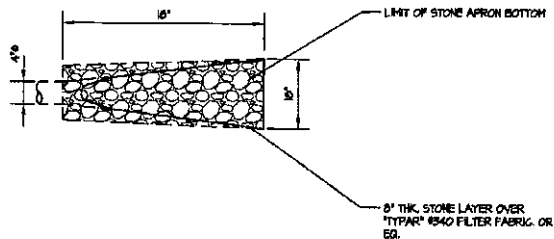


CONSTRUCTION SPECIFICATIONS:

1. MOVIE WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE 2x2\"/>

1 SILT FENCE DETAILS

N.T.S.

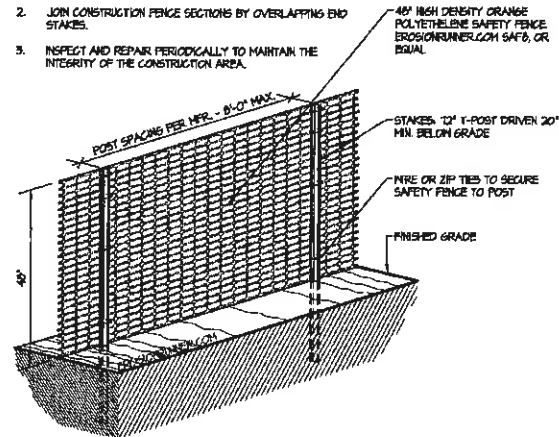


3 LEADER DRAIN OUTLET PROTECTION DTL.

N.T.S.

NOTES:

1. SPACING MAY VARY AS PER MANUFACTURER'S RECOMMENDATIONS. MAXIMUM SPACING IS 8'-0\"/>



2 CONSTRUCTION SAFETY FENCE DTL.

N.T.S.

PUTNAM ENGINEERS
BUSINESS AND ARCHITECTS
4 OLD ROUTE 6, BRIDGEVIEW, NEW YORK 12008
(516) 274-6764 FAX (516) 274-6764

PLANS PREPARED FOR:
THE MCGOVERN RESIDENCE
208 DANCY LANE
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP NO. T119, BLOCK 1, LOT 30.2

PROJECT:

DETAILS

PROJECT:

DATE: 13 JUN 16

PREP. BY: RJK DRAWN BY: LL

PE No. 0283

D-1

SHEET 4 OF 4

East-West Forestry Associates, Inc.
Consulting Foresters
22 Deana Loop
LaGrangeville, NY 12540

Date 5/17/2016
Invoice # 1742

Bill To
Town of Carmel
Town Hall
Mahopac, NY 10541
RE: Wagne Lumber(Corbelli) project

Ship To

P.O. #
Terms Net 30

Ship Date 5/17/2016
Due Date 6/16/2016
Other

Item	Description	Qty	Price	Amount
forestry	10/19/15-5/17/16 - Project inspections and reports to ECB (12.5 hours)		1,062.50	1,062.50

Escrow was 1,500.00
Bill 1,062.50

Balance 437.50 to Applicant

East-West Forestry Associates, Inc.

845-226-2628
845-226-2628

Subtotal	\$1,062.50
Sales Tax (0.0%)	\$0.00
Total	\$1,062.50
Payments/Credits	\$0.00
Balance Due	\$1,062.50

Discussion

ROBERT LAGA
Chairman

ANTHONY DUSOVIC
Vice Chair

ROSE TROMBETTA
Secretary

DAVID KLOTZLE
Wetland Inspector

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD



60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Marc Pekowsky
Vincent Turano
Nicholas Fannin
John Starace

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: Gail Apicella

Address of Applicant: 42 Cortlandt Rd Email: _____

Telephone# _____ Name and Address of Owner if different from Applicant: _____

Property Address: 42 Cortlandt Rd Tax Map # 65.14-1-86

Agency Submitting Application if Applicable: N.A.

Location of Wetland: UNKNOWN

Size of Work Section & Specific Location: _____

Will Project Utilize State Owned Lands? If Yes, Specify: No

Type and extent of work (feet of new channel, yards of material to be removed, draining, dredging, filling, etc). A brief description of the regulated activity (attach supporting details).

New Septic System

Proposed Start Date: _____ Anticipated Completion Date: _____ Fee Paid \$ _____

CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief, false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. As a condition to the issuance of a permit, the applicant accepts full legal responsibility for all damage, direct or indirect, or whatever nature, and by whomever suffered, arising out of the project described here-in and agrees to indemnify and save harmless the Town of Carmel from suits, actions, damages and costs of every name and description resulting from the said project.

Gail Apicella
SIGNATURE

6/7/16
DATE



<http://www.bing.com/mapspreview?v=2&FORM=LMLTCP&cp=41.3855177572304~-73.720186517651&style=>

