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

ENVIRONMENTAL CONSERVATION BOARD AGENDA

FEBRUARY 4, 2016 - 7:30 P.M.

SUBMISSION OF AN APPLICATION OR LETTER OR PERMISSION

| <u>APPLICANT</u> | ADDRESS | <u>TAX MAP #</u> | COMMENTS |
|---|------------------|------------------|--|
| Lake Plaza Shopping Center (Proposed Stop & Shop) | 983-1005 Route 6 | 65.10-1-45&46 | Planning Board Referral (Amended Site Plan) |

MISCELLANEOUS

2. Minutes - 01/21/16



January 28, 2016

Ref: 41929.00

Via Hand Delivery

Chairman Robert Laga and Members of the Town of Carmel Environmental Conservation Board Town of Carmel 60 McAlpin Avenue Mahopac, New York 10541

Re: Lake Plaza Shopping Center 983-1005 Route 6, Mahopac, NY 10541 Tax Map #65.10-1-45 & 46 Wetland Permit Application

Dear Chairman Laga and Environmental Conservation Board Members,

On behalf of Lake Plaza Shopping Center, LLC ("(theoApptiliant"),)VHB Engineering, Surveying and Landscape Architecture, P.C. ("VHB") submits the enclosed wetland permit application and related information set forth below in support of the Applicant'sspropposablas described more fully in the project narrative submitted herewith, to expand and improve the Lake Plaza Shopping Center, which is located at Route 6 and Baldwin Lane in the hamlet of Mahopac.

- 5 copies: Proposed Stop & Shop Wetland Permit Application package, prepared by VHB environmental scientist Erika Reeves, last revised January 28, 2016. Included within the application package are the following supporting materials:
 - Wetland Permit Application Narrative, including summarized proposed project, existing conditions, natural resources assessment, proposed wetland buffer impacts, and agency consultation summary.
 - •• Wetland Permit Application Form
 - Property Deed
 - Property owner letter of consent
 - •• Site Plans, last revised December 31, 2015
 - Figures 1-6 in support of the natural resource assessments

50 Main Street Suite 360 White Plains, New York 10605 Pt914.467 6600 Fr914 761.3759

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Town of Carmel Environmental Conservation Board Ref: 41929.00 January 28, 2016 Page 2



- •• Figure 7: FEMA/FIRM
- Summary Tables 1-3 in support of the natural resource assessment of soils, wetlands, and waters.
- USACE wetland determination data forms
- Stream data forms
- Photo log documentation of site conditions, land cover, wetlands, and waters.
- Rare, Threatened, and Endangered Species documentation, including consultation with the New York Natural Heritage Program and U.S. Fish and Wildlife Information Planning and Conservation.
- Historic and Cultural Resource documentation, including letter of no effect from the NYS Office of Parks, Recreation and Historic Preservation.
- NYS Department of Environmental Conservation consultations, including review of freshwater wetlands to date. Consultation is on-going and may require a Freshwater Wetlands permit.
- Environmental Assessment Form, as previously submitted to the Planning Board on November 30, 2015 in support of State Environmental Quality Review.
- Erosion and Sediment Control and Stormwater Pollution Prevention Plan, last revised on and submitted to the Town Planning Board on November 30, 2015.
- 1 original: Wetland Permit Application Form
- 1 original: Property owner letter of consent

1 CD: Electronic copy of all submission with all materials noted above.

Fee and Escrow: Enclosed are two checks, for the amount of \$1000 for the associated wetland permit application fee; and \$1000 for the escrow required by the Town of Carmel wetland investigator.

Please feel free to contact me at (914) 467-6607, or <u>mwjunghans@vhb.com</u>if you have any questions or require further information.

Sincerely,

Director of Land Engineering VHB Engineering, Land Survey and Landscape Architecture PC

Town of Carmel Environmental Conservation Board Ref: 41929.00 January 28, 2016 Page 3



 CC: Hon. Harold Gary, Chairman and Members of the Planning Board Mr. Michael Carnazza, Director of Codes Enforcement/Building Inspector Mr. Robert Heidenberg Mr. Pablo Medeiros Mr. Jason Lazar Mr. Pasquale Natale Ms. Cynthia Hanenberg John Canning, P.E. Geraldine N. Tortorella, Esq. Ms. Deborah Farr

Wetland Permit Application

Towm off Carmell Environmental Conservation Board

Proposed Stop & Shop

9833-10055 UJSS. Route:66

Mahopac, TownoffCarmel

PutnamCounty, New York 105411

REFERENCE NUMBER

PREPARED FOR

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PREPARED BY



VHBERgineering; Sürveying; and Landscape:Architecture; PEC. 1000GBeat/Oaks:BBoulevardd Stritee1188 Addamy; NYY122033 518:889:36000

January 28, 2016



Town of Carmel, NY ECB | Proposed Stop & Shop, Mahopac New York

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- A. Permit Application Form (Copy only, original provided with cover letter)
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Figure 1. Site Location Figure 2. Soils Map Figure 3. Federal and State Mapped Wetlands Figure 4. Land Cover Figure 5. Natural Resource Map Figure 6: Flow Map

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Table 1: Summary of Soils

Table 2: Summary of Delineated Wetlands

Table 3: Summary of Delineated Streams

- G. USACE Wetland Determination Data Forms
- H. Stream Data Forms
- I. Photo Log
- J. Rare, Threatened, and Endangered Species Documentation

J.1. NYNHP Request for Information, NYNHP No Effect Letter

- J.2. USFWS IPaC Official Species List
- K. Cultural Resource Documentation



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- L. NYSDEC Review of Freshwater Wetlands Documentation
- M. Environmental Assessment Form (Copy provided; original EAF submitted to the Planning Board, which has circulated a Notice of Intent to serve as Lead Agency in the SEQRA review of this action.)
- N. Erosion & Sediment Control Plan and Stormwater Pollution Prevetion Plan (*Please see separate attachment*)



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1

Introduction

1.1 Proposed Project

The proposed Stop & Shop project consists of the renovation and expansion of the Lake Plaza Shopping Center located at 983-1005 Route 6, at the intersection of Route 6 and Baldwin Lane in the Hamlet of Mahopac, Town of Carmel, Putnam County, New York.

The proposed project will include the following actions:

- 1. Demolishing the existing 24,000 square foot supermarket and the adjacent 7,800 square foot retail space, replacing the demolished supermarket with an approximately 53,595 square foot Stop & Shop supermarket and an adjacent 3,785 square feet of retail space, adding Stop & Shop wall signs, and substituting Stop & Shop on the existing pylon sign for the Shopping Center;
- 2. Renovating the facade of the balance of the Shopping Center, with the exception of the Kmart building on the southern portion of the site;
- 3. Constructing additional parking to replace the existing fourteen parking spaces that will be eliminated and accommodate increased building area so that the existing parking ratio is maintained;
- 4. Upgrading the parking area, lighting and landscaping serving the entire Shopping Center, and
- 5. Constructing a water supply, a sanitary sewer, and stormwater water management improvements.

A new well will be added to the system to create redundancy in the existing system. The existing sanitary sewer system has capacity for the increased flows expected from the project. Only minor improvements to make the connection are required, in the



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form of a slight shift of the force main to the east. Stormwater management facilities (catch basins, pipes, sand filters, detention system and similar features) have been designed in the area to be disturbed to collect, treat and transport stormwater runoff from new impervious surfaces that ultimately discharge into the off-site wetlands located south of the Property.

Substantial renovations of the front parking field are intended to improve the safety, functionality, and overall aesthetic appearance of the Center while utilizing sustainable practices. This effort will include resurfacing and restriping the parking lot, installing new islands, where appropriate, to better define the drive aisles and introduce uniformity in the layout, installing new and more LED lighting, and installing new landscaping to augment existing plantings for screening purposes (especially along Baldwin Lane) and create a more uniform appearance throughout the parking field. These improvements complement the green building practices to be employed by The Stop & Shop Supermarket Company, LLC in its new building.

A complete set of site plans for the Proposed Stop & Shop project has been provided (**Appendix D: C-00 – C-20**). VHB believes this planset includes sufficient details within the Existing Conditions (C-03), Layout and Materials (C-04), Grading and Drainage (C-05), and Erosion and Sediment Control (C-07) pages specific to the Environmental Conservation Board (ECB) wetland permit application requirements.

In addition, several figures have been prepared to assist the Environmental Conservation Board in their review as part of the Natural Resources Assessment detailed in Section 2.1 (**Appendix E: Figures 1-7**). A copy of the completed full Environmental Assessment Form (**Appendix M**) has also been provided.

1.2. Existing Conditions

The Property, commonly referred to as the Lake PlazaaShloppining@Genteerissaa"Designeed Shloppining@Genteeri'unddeethleeTown/ssCoddeanddissimproved with approximately 141,000 squareeféett('(sf.f.)')offretaililspace, correntlyyanchloreddbyyaafóoddmarkettanddKinart,t, together with related parking, utilities, mechanical, drainage, sewage, and potable water systems, signage, landscaping, and lighting (collectively/thlee'Center()).

The Center was originally approved and constructed over a course of years from the latee1970@stoothleeeaalyy1980@s. "PhaseeIT" offthleeCenter, consisted of faasupermaaklet, phasmacy, 10,94400squareefeet(("sff")) of fadditional retail ispace, a free-standing photo kiosk and related improvements. "PhaseeIII," consisted of fadditional retail istores, thee building currently occupied by Kmart, the wastewater treatment plant that formerly



Town of Carmel, NY ECB | Proposed Stop & Shop, Mahopac New York

served the Center, and related improvements took place in the late 1970s and 1980. In 1981, the freestanding bank (now Key Bank) in the front portion of the Center was built.

The project site is a portion of the approximately 21 acre parcel (Section 65.10, Block 1, Lot 45) and is generally bound by U.S. Route 6 and commercial businesses to the west, Baldwin Lane to the north, scrub-shrub and forested areas paralleling Cortlandt Road to the east, undeveloped ridgeline and forested wetlands to the south.

The topography of the site undulates gradually within the Center, with the majority of the site ranging in elevation of between 630 feet to 644 feet above mean sea level (AMSL). Behind the plaza is a steep ridge, where the highest point of elevation is 729 feet AMSL at at the southeast corner. The grade significantly drops from the south east corner of the parcel west towards the plaza, with slopes of 25% or more present. The slope has a more gradual decline towards the northeast (**Appendix D: C-03**).



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2

Natural Resources Assessment

VHB has performed desktop analyses, field inspections, wetland delineations, water course delineations, and rare, threatened, and endangered species habitat assessments on behalf of the Applicant, Lake Plaza Shopping Center, LLC for the study area of 20.74 acres, as illustrated by "Study Akeaa" with him the site location mapp (Appendix E: Figure 1).

2.1 Soils

VHB conducted a desktop review of soils via Web Soil Survey prior to performing environmental surveys (NRCS, 2015). The VHB study area is comprised of seven soil types, including: Fluvaquents-Udifluvents complex (Ff), Paxton fine sandy Ioam, 8 to 15 percent slopes (PnC), Paxton fine sandy Ioam, 15 to 25 percent slopes (PnD), Ridgebury Ioam, 3 to 8 percent slopes (RdB), Ridgebruy Ioam, 2 to 8 percent slopes, very stony (RgB), Urban Land (Uf), and Woodbridge Ioam (WdC).

Table 1 provides a summary of soils with soil type, landform, drainage class, hydric soil designation, and the quantity of each soil type within the site (**Appendix F: Table 1**). The hydric soils present within the study area are: Fluvaquents-Udifluvents complex, Ridgebury loam, 3 to 8 percent slopes, Ridgebury loam, 2 to 8 percent slopes, and Woodbridge loam.

A map depicting the soil units present within the study area has been provided (**Appendix E: Figure 2**).



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2.2 Land Cover

A desktop review of federally and New York State mapped wetlands identified a federal wetland (USFWS, 2009) and New York State Department of Environmental Conservation (NYSDEC) regulated wetland LC-32 (Class II) present on site (NYSDEC, 2015). A map of known federal and state wetlands is provided (**Appendix E: Figure 3**). A natural resource assessment delineated four wetlands and three streams during December of 2014, as defined in Section 2.3 and 2.4.

Desktop and in-field reviews identified five primary community types present on site, including: palustrine forested wetland dominated by silver and red maples, hemlock — northern hardwood forest (upland forest), rich mesophytic forest (upland forest), upland successional scrub-shrub, open water, and urban structures and facilities (Edinger, G. J. et al, 2014). A portion of the upland successional scrub-shrub has been previously disturbed, with open areas and access road areas present. A map illustrating the land cover areas has been provided (**Appendix E: Figure 4**).

2.3 Wetlands

VHB has delineated four wetland features within the study area, including palustrine emergent and palustrine forested wetlands: Wetland 1 (W1), Wetland 1A (W1A), Wetland 2 (W2), and Wetland 3 (W3). Of these, W1 and W1A are generally in the northeast, W2 is in the southwest, and W3 at the west edge of the study area, as illustrated by the Natural Resource Series mapping (**Appendix E: Figure 5**).

2.3.1 Background

Wetlands are a subset of the "WatersoofthleeUhitiedStatess"thlattmay be subject to regulation under Section 404 of the Clean Water Act (CWA) (33 U.S.C. 1344). Wetlands are defined by key indicators, where under normal circumstances they support a "prevalence off vegetation typically adapted four life in saturated solil conditionss"." Wetland development is regulated by the CWA of 1972.



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For most forms of development in New York State, the United States Army Corp of Engineers (USACE) and NYSDEC are responsible for protecting wetlands from pollutants, or activities that may result in the discharge of dredged or fill material into Waters of the United States. NYSDEC also regulates the 100 foot upland buffer of mapped NYSDEC wetlands and wetlands of at least 12.4 acres in size. They may also assert jurisdiction of wetland areas within 50 meters of a regulated area if a hydrologic connection exists. The Town of Carmel and New York City Department of Environmental Protection also regulates wetlands and watercourses, and their associated 100 foot buffer area.

2.3.2 Methods

VHB Environmental Scientist, Erika Reeves, delineated wetlands and collected dataform information on December 2 and 3, 2014. The wetland delineations were conducted according to the methodology detailed in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0) ("(Regional Supplement")") (USACEE 2002)*, the July 1995 *New York State Freshwater Wetlands Delineation Manual* (NYSDEC, 1995), and Chapter 89 of the Town of Carmel Town Code.

To be a wetland, this federal and state methodology requires the evidence of three criteria: a dominance of hydrophytic vegetation, hydric soils, and hydrology. On December 3, 2014, VHB collected USACE Wetland Determination data forms to document the wetland criteria observed (**Appendix G**). At the time of delineation, only W1 was within 100 feet of the project limit of disturbance. No dataforms were collected for W1A, W2, or W3; however, typical vegetation and wetland indicator notes were collected (**Appendix F: Table 2**).

The wetland areas identified and delineated qualified as local wetlands based on the definitions provided in the Chlapter 899 off the Carmel Towan Code, "Freshwateer Wetlands". Alliwetlandsidentified are federally jurisdictional, however only those meeting 12.4 acres in size or currently mapped as a NYSDEC wetland are jurisdictional to the state. VHB is confident no other local, state, or federal wetlands exist on site based upon all three definitions.

The most recent plant list was utilized to confirm hydrophytic vegetation (Lichvar, R.W. et. al., 2014). Observations were also recorded during the delineation to describe general characteristics, determine potential functions and values, as well as, to classify



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wetlands in accordance with the Classification of Wetlands and Deepwater Habitats of the United States (Cowardin, L.M. et. al., 1979), and Chapter 89 of the Town Code. Wetlands were demarcated in the field with pinkk"Wetland Delineation/f"flagging, labeled with unique flag ID codes, which include the wetland number and flag number (i.e., W1-1). Wetland flags were located in the field using a Trimble® GPS unit capable of sub-meter accuracy and post-processed using Trimble® Positions software for enhanced accuracy. A licensed land surveyor later collected the flag locations for inclusion in site plans.

2.3.3 Results

A total of four wetland areas were delineated on site, including palustrine emergent and palustrine forested wetlands. A natural resource map series (**Appendix E: Figure 5**) and table summary (**Appendix F: Table 2**) has been prepared to illustrate and characterize each wetland area.

Wetland 1 (W1) is a linear depression feature, at least partially excavated as a drainage diversion to catch surface flow from the east before it reaches the shopping plaza. This area has since developed wetland indicators and receives hydrology from surface flow and seasonal high water tables at the toe of slope. This palustrine forested wetland originates at the base of ephemeral Stream 1 (S1), flows generally northwest into intermittent Stream 2 (S2), and then continues west as a wetland fringe along Stream 2. This wetland system terminates where Stream 2 drains into an existing culvert north of the site (Flag S2-618). An additional pocket of palustrine emergent wetland fringe along Stream 2 is located to the east, labeled as Wetland 1A (W1A) near Baldwin Lane.

Wetland 2 (W2) was delineated only where directly adjacent to the Center. As noted on the Natural Resources Map, this wetland continues both to the west and south of the Site. This wetland is part of a large forested wetland system mapped as NYSDEC Wetland LC-32 beginning at the toe of slope and continuing south to Mud Pond. Although a forested system, this wetland is primarily composed of invasive species such as Common Reed (*Phragmites australis*), Purple loosestrive (*Lythrum salicaria*), and Multiflora Rose (*Rosa multiflora*) near the commercial areas.

Wetland 3 (W3) is a small isolated wetland within 100 feet of the Site. The adjacent side of Wetland 3 was delineated. The isolated wetland is contained by parking lot on the east, parking lot and commercial area to the north, a commercial building to the west and southwest, and additional parking lot areas to the south. The wetland appears to be an old detention basin that has not been maintained, and has since developed wetland criteria.



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Complete wetland determination data forms were provided for W1, including both wetland and upland data points (**Appendix G**). Photos of the individual plots are included with the dataforms; additional photos of general wetland and upland views are provided in the Photo Log (**Appendix I**).

2.4 Streams

A total of three water features were delineated within the study area. S1 was determined to be ephemeral; flowing through an existing trench northwest until dispersing into W1. S2 originates from outside of the study area; east of Cortlandt Road and flows through W1A and W1 into a HDPE culvert. VHB assumed that the outlet of S2 flows through a culvert into S3 (**Appendix E: Figure 6**). S3 begins at the culvert outlet, and flows south into W2, the flagged boundary of NYSDEC regulated wetland LC-32 (Class II).

2.4.1 Background

In addition to wetlands, Waters of the United States are also regulated under the CWA. Simply stated, Waters of the U.S. are defined by waters traditionally (currently or in the past) used for for interstate or foreign commerce; as well as, a tributary of, or a feature containing aa "significant tnexus" or connection too aattaditional navigable waterwayy (TNW). Generally, a stream with at least intermittent or seasonal flow is considered jurisdictional under the CWA. Similar to wetlands, Waters of the U.S. are regulated under Section 404; navigable waterways are also regulated under Section 10 of the CWA. Watercourses with at least intermittent flow regime and their 100 foot buffer are regulated by the Town of Carmel and NYCDEP.

2.4.2 Methods

Waters and streams were identified and delineated in the field according to the guidanceeinnthee"Regulatory Guidance Letter: Subject – Ordinony/HighhWateer("(OHWV)") Identification" (USA/OEE2005)) and Chapter 89 of the Town Code. During field work, flow regimes were classified as perennial, seasonal, intermittent, or ephemeral and are determined based on qualitative observations of in-stream hydrology at the time of



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observation and existing geomorphic characteristics. Observations were made during the delineation to record stream characteristics such as channel substrate, surrounding land use, as well as, OHW measurements to complete a basic assessment of physical and habitat characteristics (**Appendix H**).

Narrow streams (generally ephemeral or small intermittent streams with channel widths of less than four feet) were delineated along the centerline. Larger streams (large intermittent to perennial streams) were surveyed with two lines, each at the top of bank (TOB). Streams were demarcated in the field using blue survey tape, labeled with unique flag ID codes which includes the stream number and flag number (i.e., S1-1). Stream flags were surveyed using the same method as the wetland flags; then located by a licensed land surveyor.

2.4.3 Results

VHB has delineated three stream features within or near the project site. Stream 1 and 2 are in the northeast corner, and Stream 3 is in the southwest corner of the the study area (**Appendix E: Figure 5**).

Stream 1 (S1) originates at the base of an ATV trail, where surface run off collects and flows downhill along an existing trench. Despite erosional conditions present in the stream, there are indications of start and stop flow; suggesting this stream to be ephemeral; flowing only in response to storm events. At the bottom of this stream (Flag S1-605) the topography flattens out along the toe-of-slope; where flow disperses into W1.

Stream 2 (S2) originates from an offsite wetland and stream drainage area to the east of Cortlandt Road. S2 then flows through an HDPE culvert under Cortlandt Road, generally flowing northwest until it continues underground via a culvert (Flag S2-618). Based on the culvert information available, VHB believes the outlet of S2 is approximately 1000 feet south west of where a 4-foot corrugated metal pipe (CMP) culvert outlet was found (**Appendix E: Figure 6**). The stream at this outlet was collected as feature Stream 3 (S3).

The beginning of S3 is impacted by unnatural straightening and multiple culvert outlets from offsite sources to the west. The 4-foot CMP culvert outlet is located slightly south, at flag S3-104. A heavy rainstorm occurred while surveying S3. The water quality of S3 was considerably degraded during and after the rain event. S3 may receive surface



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runoff from multiple stormwater outlets. S3 was surveyed to the extent where W2 begins; after which the sinuosity of S3 becomes a more natural, meandering channel within the palustrine forested wetland.

2.5 Floodplains

The plaza parcel does not fall within a 100 year floodplain based upon the Flood Insurace Rate Map Panel 140 (**Appendix E: Figure 7**). The nearest floodplain shown is approximately a mile southwest of the site surrounding Lake Mahopac.

2.6 Rare, Threatened, and Endangered Species

2.6.1 Background

Federal rare, threatened, and endangered (RTE) species are protected under the Endangered Species Act (ESA), as administered by the U.S. Fish and Wildlife Service (USFWS); which mandates the protection of species federally listed, as well as, their associateddhabitiates.Ititissunkawfulltoo"takkee"aalisteddspeciess.Tākeeissdetifneddaas"too harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engaggedinaatyssuchrcondduct.". Stägnifikaattmodifiktatiooroo.deggaadatioorooflistedcspecies' habitiates is considered "haami" undeer ESAA regulations. Conducting duee diligencee assessments helps to avoid impacts to these species and prevent financial or criminal penalties under the ESA.

The NYSDEC administers the Endangered and Threatened Species regulations in New York State, under 6 NYCRR Part 182. These regulations describe requests for determination of whether an activity is subject to regulation, recover and restoration plans, and the requirements for an incidental take permit (NYSDEC, 2010). When a species is listed as threatened by the federal government it becomes threatened in New York State pursuant to regulation (6 NYCRR Part 182.2[y][2]).

In compliance with the State Environmental Quality Review (SEQR) Act, VHB has conducted a review of both federal and state-listed RTE species potentially found on Site. This review has included desktop analysis, field review, and preliminary consultations with state and federal agencies.



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A desktop review was performed to determine if the site is associated with any known New York State listed RTE species. The NYSDEC Environmental Resource Mapper was utilized for a preliminary assessment; resulting in no rare plant or rare animal location recorded on site (NYSDEC, 2014). To verify, a consultation was requested of New York Natural Heritage Program (NYNHP) for the full study area on December 3, 2015 (**Appendix J**).

A desktop review was also performed for federally listed RTE by utilizing the USFWS Information, Planning, and Conservation System (IPaC) (USFWS, 2016). The federal species list was then verified via an Official Species List was updated on January 20, 2016 (**Appendix J**).

VHB has performed a habitat assessment for Bog turtle, Indiana bat, and Northern Long-eared Bat, as detailed below.

2.6.2 Bog Turtle

The Bog Turtle is known as the smallest turtle in North America, at only 4 inches long. The Bog Turtle displays a bright yellow, orange, or red patch along each side of the head. The Bog Turtle usually occurs in small populations and prefers habitats with cool, shallow, slow moving water, deep soft muck soils, and tussock-forming herbaceous vegetation. Typically, Bog Turtles are found in early successional habitats including wet meadows or open boggy areas dominated by sedges or sphagnum moss with suitable basking areas; however they have been found in forested wetlands where the hydrology and soil conditions allow. The Bog Turtles specialized habitat is lost quickly to invasive purple loosestrife (*Lythrum salicaria*) and common reed (*Phragmites australis*) invading and outgrowing the native sedges and moss.

Of the wetlands surveyed, only W2 (NYSDEC Wetland LC-32, Class II) provides potential habitat for Bog Turtle south of the study area. The portion of W2 delineated adjacent to the plaza is heavily shaded, and is dominated by dense stands of common reed. Based on the poor habitat directly adjacent to the plaza, no effect on potential Bog Turtles is anticipated.

2.6.3 Indiana Bat & Northern Long-eared Bat

The Indiana Bat is a species of bats heavily impacted by human disturbance and the fungal disease? White enoses yndrome?. The Indiana bat is approximately 2 inches in



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length, weighing 0.2 - 0.3 ounces. It is found mostly in eastern United States. In the summer, the Indiana Bat has been reported to occur in 14 counties in New York State; 6 counties during the winter. Due to the population decling 56 percent from 1960 to 2000, the USFWS listed the Indiana Bat as endangered under the ESA on March 11, 1967. Under the ESA, a threatened species is likely to become endangered in the foreseeable future, while an endangered species is currently in danger of becoming extinct.

The Northern Long-eared Bat (NLEB) is another species of bats heavily impacted by "Whiteenosecsyndromee". The Northleen Longgeared Bat is approximately 3 inches long with a 10 inch wingspan. It is predominately found in eastern and north central United States. NLEB is believed to occur in all 62 counties of New York State. As a result of continual declines in their populations, caused by white-nose syndrome, as well as, continued spread of the disease, the Northern Long-eared Bat received protection as a threatened species under the ESA on April 2, 2015, effective May 4, 2015; with the final 4(d) ruling just listed on January 14, 2016, effective February 16, 2016.

Both the Indiana Bat and Northern Long-eared Bat hibernate in caves and mines known as hibernaculum during the winter. During the summer months they utilize a wide variety of forest/wooded habitats for roosting, foraging,maternity, and travel cooridors. These species may also travel in open areas and adjacent edges of forests, such as emergent wetlands, agricultural fields, and pastures. The wooded habitats may be dense or loose aggregates of trees with variable amounts of canopy closure, where potential roost trees (i.e., live trees and/or snags of at least 3 inches in dbh that have exfoliating bark, cracks, crevices or cavities) are present (USFWS, 2015). Additionally, Indiana Bats and NLEBs have been observed roosting in man-made structures, such as buildings, barns, bridges and bat houses. The summer habitats are typically utilized from mid-May through mid-August each year.

Based upon the land cover assessment of the study area, 6.14 ac. of upland forest and 0.48 ac of forested wetland is present within the study area (**Appendix E: Figure 4**). Both of these areas contain multiple snags, dead, and decaying trees that may provide suitable roosting habitat for either bat.

A response from NYNHP on December 31, 2015 stated that the project site is within the 4 miles of a documented hibernaculum for Northern Long-eared Bat and 11 miles of a documented maternity colony for Indiana Bats. NYNHP concluded that no significant impacts to the Northern Long-eared Bat or Indiana Bat would result if large trees would not be cut down (**Appendix J**).



Town of Carmel, NY ECB | Proposed Stop & Shop, Mahopac New York

3

Proposed Project Impacts

3.1 Wetlands and Waters

The proposed project primarily exists within a footprint of previously developed areas associated with the Lake Plaza Shopping Center. No direct impacts or disturbance will occur in wetlands or streams identified near the site.

The project will include work within the regulated 100-foot upland buffer of features W1, W2, and W3, as noted below:

- W1: 6690 sf of disturbance within the buffer to replace existing parking area with proposed driveway leading to the back of proposed building, to construction of proposed wall, sewer, and drainage system.
- W2: 22,145 sf of disturbance within the buffer to resurface the existing parking lot and provide landscape islands.
- W3: 7,392 sf of disturbance to resurface the existing parking lot and provide landscape islands.

At the northeast corner of the proposed Stop & Shop, 500 sf of impervious area will be added to allow for the site improvements. However, 500 sf of the existing impervious parking lot will be removed; resulting in a net zero increase of impervious area (**Appendix D: C-04**).

Consultations with NYSDEC have been performed regarding disturbance within the 100 foot buffer of LC-32 (**Appendix L**).



Town of Carmel, NY ECB | Proposed Stop & Shop, Mahopac New York

In summary, the project will have no net increase of impervious area within the 100 foot wetland buffer. In addition, proposed landscape islands within the parking lot will decrease the impervious areas adjacent to and within the 100 foot buffers of W2 and W3.

An Erosion and Sediment Control plan (Appendix D: C-07) has been developed and a Stormwater Polution and Prevention Plan has been prepared (**Appendix N**). Based on the no net increase of impervious area within the 100 foot wetland buffer and the protections in place during construction, no impacts to the adjacent wetland or stream areas are anticpated.

3.2 Rare, Threatened, and Endangered Species

Potential habitat exists for Northern Long-eared Bat, Indiana Bat, and Bog Turtle. Based upon consultation with NYNHP, no impacts to either bat species are anticpated unless large tree removal is necessary. If large trees will need to be removed, further consultation with NYSDEC and USFWS may be necessary regarding bat species.

No impacts to Bog Turtles are anticipated based on their restrictive habitat needs. The Bog Turtle, if present, would be limited to areas within NYSDEC Wetland LC-32, delineated as W2. Furthermore, no net increase in impervious area, drive aisles, or parking areas is proposed near W2.

3.2 Historic and Cultural Resources

In accordance with the New York State Historic Preservation Act of 1980, VHB conducted a consultation with the New York State Office of Parks, Recreation, and Historic Preservation (OPRHP) to determine if the proposed Stop and Shop would have an effect on historic or cultural resources. OPRHP issued a letter on January 4, 2016 stating the project will have no impact on archaeological and/or historic resources listed in or eligible for the New York State and National Registers of Historic Places (**Appendix K**).



Town of Carmel, NY ECB | Proposed Stop & Shop, Mahopac New York

4

Summary of Conclusions

On behalf of Lake Plaza Shopping Center, LLC, and in support of the Project, VHB conducted an environmental site assessment of wetlands, waterbodies, and RTE species during the December 2014.

VHB delineated four wetland features and three stream features within the study area. At this time, only disturbance within the 100 foot buffer of wetland areas is proposed. No net increase of impervious area within the 100 foot buffer is proposed.

VHB reviewed the site for Northern Long-eared Bat, Indiana Bat, and Bog Turtle habitat in compliance with SEQR. No direct impacts are anticipated to any of the three protected species based upon current project plans and recent consultation with NYNHP; however, if large tree removal is required, further consultations with NYSDEC and USFWS may be necessary to protect the bat species.

A consultation with OPRHP was performed in December 2015. No impacts to historic or cultural resources are anticipated.



Town of Carmel, NY ECB | Proposed Stop & Shop, Mahopac New York

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Town of Carmel, NY ECB | Proposed Stop & Shop, Mahopac New York

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Town of Carmel, NY ECB | Proposed Stop & Shop, Mahopac New York

Appendix A

Permit Application Form

(Copy only, original provided with cover letter)

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ROBERT LAGA Chairman

ANTHONY DUSOVIC Vice Chair

ROSE TROMBETTA Secretary

DAVID KLOTZLE Wetland Inspector

9

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: Lake Plaza Shopping Center, LLC

Address of Applicant: 234 Closter Dock Road Emailpmedeiros@heidenbergproperties.com

Closter, NJ 07624

Telephone#201-768-1300 Name and Address of Owner if different from Applicant:

Mahopac Drive In Theatre, Inc., P.O. Box 738, Mahopac, NY 10541

Property Address: 983-1005 Route 6, Mahopac

Agency Submitting Application if Applicable: N/A

Tax Map # 65.10-1-45

 Location of Wetland:
 Northeast, west and southwest edge of site. See application materials submitted herewith.

 Size of Work Section & Specific Location:
 Total of 36,227 sf of disturbance within 100 foot buffers of W1, W2, W3.

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

See project narrative submitted herewith.

Proposed Start Date: 09/01/2016 Anticipated Completion Date: 09/01/2017 Fee Paid S_____1,000.00

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.

1/30/2014

SIGNATURE Robert Heidenberg, Authorized Signatory This page left intentionally blank.



Town of Carmel, NY ECB | Proposed Stop & Shop, Mahopac New York

Appendix B

Property Deed

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Town of Carmel, NY ECB | Proposed Stop & Shop, Mahopac New York

Appendix C

Owner's Consentt

(Copy only, original provided with cover letter)

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Mahopac Drive-In Theatre Inc. 40 Shallow Stream Road Carmel, New York 10512

January 21, 2016

Hon. Robert Laga, Chairman and Members of the Environmental Conservation Board Town of Carmel 60 McAlpin Avenue Mahopac, New York 10541

> Application of Lake Plaza Shopping Center, LLC for a Wetland Permit for the Mahopac Plaza Shopping Center 983-1005 Route 6, Route 6 and Baldwin Lane Tax Identification Number: Section 65.10, Block 1, Lot 45 Owner's Authorization

Dear Chairman Laga and Members of the Board:

Re:

Mahopac Drive-In Theatre, Inc. is the owner of the property that is the subject of the abovereferenced application. As owner, Mahopac Drive-In Theatre, Inc. hereby authorizes Lake Plaza Shopping Center, LLC ("Lake Plaza"), the ground lessee of the subject property, to apply to the Town of Carmel Environmental Conservation Board for a wetland permit and other related approvals in connection with the proposed grocery store expansion and related improvements on the subject property. We further authorize Lake Plaza to take such other actions, appear before and seek approval from such other Town bodies and officers of the Town of Carmel, including but not limited to, the Town's Zoning Board of Appeals and Planning Board, as is necessary or desirable in connection with seeking such approval. Finally, we consent to Lake Plaza's application(s) with the understanding and on the condition that Lake Plaza will be responsible for all costs and expenses associated with the application and the Town's review thereof.

Very truly yours,

Mahopac Drive-In Theatre, Inc.

John D. Gilmore, President

Sworn to before me this Ald day of OX n 2016.

SUSAN J. NUNZIATA Notary Public, State of New York Registration no. 01NU6078143 Qualified in Putnam County Commission Expires July 22, 20

1.1



Wetland Permit Application | January 28, 2016

Town of Carmel, NY ECB | Proposed Stop & Shop, Mahopac New York

Appendix D

Please see separate attachment for the Site Plans: Sheets C-00 through C-20

Site Plan Approver Date Issued Latest Issue

Proposed Step & Shop

483 4008 Reute A Route 5 & Baldwin Lanel Lown of Carmel Makapais Supram County, New York 1954

> Owner/Applicant Owner/Applicant Lake Plaza Shopping Center, LLC Lake Plaza Shopping Center, LLC Heidenberg Properties Group 244 Chester Door Chest Coster, NJ 07624

Tax Parcels (Map-Block-Lot) Tax Parcels (Map-Block-Lot) 65.10-1-45 65.10-1-46 65.10-1-46



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| C-02 | Abutter's List and Map | December 31, 2015 |
| 6-03 | Existing Conditions Plan | December 31, 2015 |
| C-04 | Castron Counterrais Plan | December 31, 2015 |
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| C-20 | Sight Line Triangle Plan | December 31, 2015 |
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| | Abbreviations |
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| General | L |
| ABAN | 10-000 |
| ACR | ACCESSIBLE CURB RAMP |
| ADU APPROK | ADJUST APPROXMATE |
| BIT | BRUMINOUS |
| 85 | BOTTOM OF SLOPE |
| BWLL | BROKEN WHITE LANE UND |
| CONC | CONCRETE |
| DYCL | DOUBLE YSUNGW CENTER LINE Elevation |
| ELEV | ELEVATION |
| EXIST | EXISTING |
| ¢ DN | FOUNDATION |
| FFE | FIRST FLOOR ELEVATION |
| ORAN GTD | GRANITE GRADE TO DRAIN |
| LA | LANDSCAPE AREA |
| 106 | LIMIT OF DISTURBANCE |
| VAX | MARMUM |
| ¥1N | MINIMUM |
| VEP | NECHAN CAL/ELECTRICAL/PLUMBING NOT IN CONTRACT |
| NIC NIS | NOT TO SCALE |
| PFRF | PERFORATED |
| PROP | PROPOSED |
| REM | REMOVE |
| RET | PETAIN |
| RAD | REMOVE AND DISPOSE REMOVE AND RESET |
| SWEL | SOLID WHITE EDGE LINE |
| SWLL | SCILD WHITE LANE LINE |
| TS | TOP OF SLOPE |
| TYP | TYPICAL |
| <u>Utility</u> | |
| CB | CATCH BASIN |
| CI | CURB INLET |
| co | ODRRUGATED NETAL PIPE OLEANOUT |
| 008 | DOUBLE CATCH BASIN |
| DET | DETENTION BASIN |
| DIP | DUCTLE IRON PIPE |
| DMH | DRAIN MANHOLE |
| CIP COND | CAST IRON PIPE |
| DIP | DUCTLE IRON PIPE |
| 18 A | FLARED END SECTION |
| PI . | FIFLD INLET |
| FW | FORCE WAIN |
| Fac | FRAME AND GRATE |
| 61 | FRAME AND COVER SUTTER INLET |
| GT | GREASE TRAP |
| HOPE | HIGH DENSITY POLYETHYLENE PIPE |
| нч | HANDHOLE |
| н₩ | HEADWALL |
| HYD WV | HYDRANT IN ÆRT ELEVATION |
| Ja | INVERT ELEVATION |
| JP . | LIGHT POLE |
| NES | METAL END SECTION |
| PW# | PAVED WATER WAY |
| PVC | POLIVIN YLCHLORIDE IP 92 |
| PIV RCP | POST IND/CATOR VALVE REINFORCED CONCRETE PIPE |
| RD | ROOF ORAIN |
| Re | RIM ELEVATION |
| sco | SANITARY CLEANOUT |
| SMH | SEWER MANHOLE |
| 191 | TAPPING SLEEVE, VALVE AND BOX |

- TARPING SLEEVE, VALVE AND BOX 14.0
- 05 UNDERGROUND
- UTUITY POLS

General

- CONTRACTOR SHALL NOTIFY THE SAFEY MY (1-800-762-7952) AT VEAST 72 HOURS BEFORE THE START OF ANY CONSIDERCION ACTIVITY.
- CONTRACTOR SHALL BE RESTONSIBLE FOR SHE SECURITY AND LOB SAFETY. CONSTRUCTION ACTIVITES SHALL BE IN ACCOMPANCE WITH DSHA STANDARDS AND LICKA RECOMPLICITY.
- ACCESSED QUILS, PARKING SPALES, PARKS, SOCHALIS, AM MALMANS, SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL ANERGANS WITH BESAULTIES ACE AND MONISTAT, AND LOCAL LANS AND FELLATIONS (INACHARY A MEMORY STRUCTURE)
- ANGAS DESTABLED DURING COASTRUCTION AND NOT RESTORED WITH IMPERVOUS SURFACES (BALDHOS, PANEMENTS, WALVES, ETC.) SHALL RECEIVE & INFORM AND SEED
- 5 WITHIN THE LIMITS OF THE BLICONE FEORPHY, THE SHE CONTRACTOR SHALL PERFORM EARTHMERE OPTIGATIONS INCLUDED UP 13 SUBCRISE ELEWARDER.
- WORK WITHIN THE LOCAL POINTS-DF-WAY SHALL CONFURM TO LOCAL MOREOPIN, STANDARDS, HORY WITHIN STANDARD SYNCHICATORY FOR HIGHING AND THE LARGET CONFORM THE STATE HORMAY DEPARTMENTS STANDARD SYNCHICATORY FOR HIGHING AND HIMLES.
- LOON AND CONTRACT, CONTRACTOR SHULL MAKE MICESSARY CONSTRUCTOR NORFLAMORS AND APPLY TOR AND COLLAR ACCESSARY FEMALE, ANY TEES, AND FACE INVEST. ACCESSANT CONTRACT, AND FACE ACCESSANT OPENALING STATUS AND ACCESSANT ACTION AND ACCESSANT ACCESSANT ACCESSANT ACCESSANT OPENALING STATUS AND FACE AND FACE ACCESSANT ACCESSANT ACCESSANT ACCESSANT ACCESSANT ACCESSANT OPENALING STATUS AND FACE AND FACE ACCESSANT A
- B. TRAFFIC SIZEARE AND PARENERT MARGINES SHALL CONFORM TO THE MARANE OF UNITORY TRAFFIC DIMITION (CONSTS)
- B AREAS DUISDE THE LIMITS OF PROMISED WORK DISTURBED BY THE CONTRACTOR'S OPDIATIONS RIALL RE RISTURED BY THE CONTRACTOR NO THEN DRIGHTL CONDITION AT THE CONTRACTOR'S DIPLACE.
- In the least that bijetetid containants for, goodennity, and ones high and decomposition of the second termination and costing-term activities based on the all allocation of the second of the sec
- CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM CONTRACTOR SHALL BE PERSONABLE FOR CLEANUP, REPARTS AND CONDECTIVE ACTION IF SUCH DESURS.
- 12. GARAGE RESULTING FROM DORSTRUCTION LOADS SHALL BE REPARED BY THE EDATRACTOR AT NO ADDITIONAL DOGS TO DORVER.
- 13. CONTRACTOR SHALL CONTROL STORMINATER RENOFF BUPPIC CONSTRUCTION TO PREVENT ADVANCE IMPACTS 10 SITE STR. AREAS, AND SHALL DR. RESPONDENCE NO REPAIR PESCHING DIMAGES, Y. MIX, AI NO COST TO DIMAGES.
- In the project disturgs work than one are or land and tails when the proce construction that has in them (COP) reasons and fex awards that, if the tail to the Staff or Canarakana Definition to the AL or produce of match with the process down and a submatch reaction registerior plant is additionable with the process down the construction shall be additioned to the Canarakana to Canarakana registerior plant is additionable with the process down the construction shall be additioned to the Canarakana registerior plant is additionable with the CPA and the construction shall be additioned to the Canarakana to the construction shall be additioned to the construction shall be added to the construction shall be a

Dulities

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- verses, and patients Lutter is cross to construct while the description of the flower developed of the flower developed of the flower developed of the devel
- SET CATCH BASH RWS, AND AVEN'S OF SEVERS, MANNES, AND DITCHES IN ACCORDANCE MITH LUCYATORS OF THE CRADING AND UTURY IN ANS
- Rim Elevations For Draw and Sende Manholes, Water Valve Oderks, Das Gates, Electric And-Telepache Paul Boots, and Manholes, and Dyner Sich Teles, and Approximate and Shull ne selected at a follows.
- A RAVINITY AND CONCRETE SIMEARTS. IT USA B. ALL SUPPRES HUNG ACCESSIBLE ROUTES. ITUSH
- C. LANDSCAFE, LOAM AND FIELD, JAID OTHER EARTH SURFACE AND AS: ONE THEM ADDIVE SURFACIANDING ANTA AND TAPLE EARTH "O THE MY LEWYING
- . CONTRACTOR SIMIL WARD ARRANGEMENTS FOR AND SMALL BE RESPONSED FOR PAYING FLES FOR POLL RESOLVING AND FOR HER ALLIANTER AND ADJASTMONT OF GAS ELEGING. TILLPHINE, FRE WARD, AND ANY OTHER PRANTE LIVELING, HER THER MAN, BY CONTRACTOR BY THE UNDER CONTANT
- 2. LITUTY MAY WATCHALS SHULL BE AS FOLLOWS, JAKING OTHERWISE WITTO DA THE PLAN
- A WATER PERS SHALL BE DUGTLE BOR PER (D.P). GLASS 52
- B. SANTARY SEWER RIVES SHALL BE PELYMENT CHORME (PAC) SEWER RIPS, SOR 25 C. STORM DRAMADE PAPES SHALL BE HOPE AND REP. TYPE 1.
- D. FOR INSTALLATION AND WATERING'S SHALL COMPLY WITH THE STATE PLANNING CODE WHERE APPLYCANI COMBRACTOR SHALL COORDINATE WITH LODG, PLANNING MERICTOR PSON TO BE DRAWING MERIC.
- Али интерната с конструкти интернатор допустращатии длинетора "Цинетора " склада и полнаката сперата на вързата сперата на или длинетора. Ца пода на ногидника на склада и пода пода се до да и пода пода пода се пода на пода на негота пода се пода пода се до да се пода на пода на пода на пода пода на сладата се вързата пода пода пода на пода на пода на пода се сперата се вързата на пода на пода на пода на пода на дина с сладата се вързата на пода на пода на пода на дина с сладата се вързата на пода на пода на пода на пода на дина с сладата на пода на пода на пода на пода на дина с сладата на пода на пода на пода на пода на дина с сладата на пода на пода на пода на пода на дина с сладата на пода на пода на пода на дина с сладата на пода на пода на пода на дина с сладата на пода на пода на пода на дина с сладата на пода на пода на пода на дина на дина на пода на дина на дин
- B. DEMITRACION SHALL EXCAVATE AND BACKFALL TRENDARS FOR GAS IN ACCORDANCE WITH BAS COMPANY'S RECOMPLICATION.
- 10. ALL DRAINEZ 44D SAMEARY STRUCTURE INTERIOR DWARTERS (# 1405) SHALL BE DETERMINED BY THE MARKACHTER BASED IN THE PRE COMPLEXATIONS SHORE ON BHEST PLANS AND LICLU. INANCTAL STRUCTURE, COM WARKEDS INVEL AND STREET IN COMPLEX AND CREATER, DWARMS COMPLEXE SHALL BE TH STRUCTURE. COM WARKEDS INVEL AND STREET IN COMPLEX SHORE ON CREATER, DWARMS COMPLEXE SHALL BE TH STRUCTURE. COM WARKEDS INVEL AND STREET IN COMPLEXE SHORE ON CREATER, DWARMS COMPLEXE SHALL BE THE STRUCTURE. COM WARKEDS INVEL AND STREET IN COMPLEXE SHORE ON CREATER, DWARMS COMPLEXE SHORE ON CREATER, DWARMS COMPLEXES INVEL AND CREATER, DWARMS COMPLEXES INVELOR CREATER, DWARMS COMPLEXES INVEL AND CREATER, DWARMS COMPLEXES INVELOR CREATER, DWARMS COMPLEXES INVEL DWARMS STANC Loyout and Materiak
- DARCHSIGHTS ARE FROM THE FACE OF CURB, FACE OF BLASHIG, FACE OF MALL AND CONTER LARE OF PARTNERS MATTER.
- 2 SLEAR RADIE ARE 3 FEET UNUSSS DTHERMISE INDIED
- QUERNE SHALL BE PRECASE CONTRETE CURE (PCC) AND MONITIME CONDITIE CONCILET. (NEC) WHILE THE STE UNLESS DIFFERMENT INTERFERENCE
- Existing Conditions Information. SEC ACCUMENTATION DRAMMES FOR EASES FOR EASES BARDING INVESTIGATES AND DETAILS CONTROLOUS TO THE BERINGS, REQUERY: BREWING, RAMES, DULING (VIEWARDS, STAMMARS, UTLAY PRETRATION, CONCRETY GOOD PAGE, COMPACIDE PAG, LOADING DOORS, BULARTS, EG. SASE PLAN. "WE DISTANG CONDITIONS SHOWLON DRIVE PLANS ARE BASED UPON AN ATTA/ACSN (AND THE SURVEY REPARED INSTE FROM(IRNE, SURVEYING, AND LANDSLAFF AND TFOLING F.C., DATEO YOLDING IN 2011
- . PROFESSED BESINES AND ANY EXISTING PROPERTY LINE HOMANCHARDIN OFSIL/RIED DUPING CONSTRUCTION SHALL BE SET OF PETET BY A PROFESSIONAL LYSINGE SUBJECTOR.
- INSERVICES FOR A REAL AND A REAL AND A REAL AND A REAL AND ANY A REAL AN PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL WHEN EXISTING PARKWARE LEVATIONS AT HYDERACE RETH PROPERTY ANTIMATING, AND EXISTING PARKWARE LEVATIONS ASSAULTING TO DRAMADE OUTLETS TO ASSING PROPER TRANSITIONS IN ARCH DISTORME AND PROPERTIE ASSAULTINGS.
 - . TOPOGRAFHY LEWHIDYS AND INSIDE OF YORTH ANDROWN VENICAL BATTAN 1986 AND IS BASED UPON CP'S DESERVATIONS TAKEN EVENIS THE COURSE OF THIS SLIVEY AND REDUCED USING THE HTS ODES HERMON. 4 VORDINTIAL INTORNATION ANSID ON THE NEW YORK COMPONENT, SYSTEM, UNIT ZONE (HARD NO
 - Document Use
- CONTRACTOR SWILL PERIOR AND DEPOSE OF LOSTING NAMINOS SUBRICE TEXTINGS WHEN THE LINE OF NOR HALIDANE TANDHOS, STALETINGS, PARAMENTS, SAKES, GRADING, TOXIS, LUTLIY FORES, SAKES, TOX HESTS, KARESTER, STALETING, REVART, AND TOX A DEPOND, OF LOSTING TOXIS, LUTLIY FORES, SAKES, TOX HESTS, KARESTER, SALETING, REVART, AND TOX A DEPOND, OF LOSTING TAXIS, TOXANDAS, AND INSCRALE SALETING, REVART, AND TOX A DEPOND, OF LO FILE OF COM THE PROTOTO BILDING FORTHMIN MEXING ALTERNE COMMER. EXSTING LITLINES SHALL BE TERMINARD, UNLESS OF ERMISE NOTED, IN CONTINUANCE ATHIE LOCAL, STATE AND REVANDED, UTLINY COMPANY STANDARD SPECIFICATIONS AND DETLASS, THE CONTRACTOR SHALL COORDINATE CUTITY SERVER S SEQURATES IN WITH THIT IN THAT MATERIANALIZES.
- . Compreading Shall displose of denoutron dedays in accompance with applicable federal. State and Local atoms, ordenings, and Statutes,
- CONTRACTOR SHALL NOT RELY SOLETY ON EXCENTING VERSIONS OF PLANS, SPECKDARDAS, AND DATA PLES THAT ARE DISTAND FROM THE DESCHARDER, BUT SHALL VERY LOCATION OF PREASO FLATMER IN ACCOMPANY, WITH DE PAPEL DOING OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS. THE COLUMPS LIMPS CONTROL IN THE FLANS IS NEEDEDS TO JUST HE CONTRACTING DURING THE GROUPS AND CONTRACTING THE ADDRESS AND A THIT HETEROD TO LOTE LUMI AND CONTRACTING DURING THE GROUPS INTO CONTRACTING THE ADDRESS AND A THIT HETEROD TO LOTE LUMI AND CONTRACTING THE ADDRESS. CONTRACTING THE DURING THE CONTRACTING THE ADDRESS AND ADDRESS.
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- A PRE-ODSPECTOR WITH BE SHULL BY ALL BEACHTS IN THE CONTRACTS, OHNO, DEADEL, AT the attract the contract of the second s
- THE EROSON MAD SEDALAT CONTROLS SHALL BE MODIFIED BY THE CONTRACTOR AT THE DIVECTION OF THE INVERTED AND/OD THE DESCRIPTED VILLAGE REPRESENTATIVE AS RECEISED THE BY CONVERIE SET. EDIDING-S
- ALL DEWATCHING WAS'L WARRY SHOLL DE OSCHARDED IN À MANNER INNEN INTENTES THE DISCOLORATION De the rescanne materix, fin, sin signad de vier follan de distributions utter, and banding gaterials in Derre that hung, de the ganer, eviers are landos de materialistes.

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White Plains, NY 10606

50 Main Street Suite 360

p: 914 457,6600 1 914 761 3759

Tax Parcels

65 10-1-45 55 10-1-46

Proposed Stop & Shop

983-1005 Route 6 Town of Carmel, Mahopac, New York, 10541

No. 1000 Array

Links Links

Site Plan Approval November 30, 201

Legend and General Notes

41929.00

Not Approved for Construction

Micheol W. Aunghor

- PROF TO STAPTED ANY DIMENSION ON THE SITE, THE CONTRACTOR SHALL MOTEY APPROVENT. ACCOUNT AND THE STAPS HER AS BEINGTO IN ITERAL, SITUAL APPROVENT ACCOUNTING INVESTIGATION IN THE PLACE HIGH AS BEINGTIO IN ITERAL, SITUAL APPROVENT ACCOUNTING PLATEMENT TO THE PROLET.
- enviration shall respect and non-fam respon control measures and renove somewing technology. In a respect rass and defines of somewing with filling area such that they do not enclosed. Drive reamage structures and indicate artis.
- CONTRACTOR SHALL BE ONLY RESPONSE TO CONTRACTON RUSH THAT ECONTRACTON SHALL BE NEED BY MATERY WARRY, WHO, OR SHIELD PERSON PROTECTOR ARCAS, WHETHER SUCH STIDMANDATION IS CAUSED BY MATERY, WHO, OR SHIELD PERSON STIDMANDATION IS CAUSED BY MATERY, WHO, OR SHIELD PERSON STIDMANDATION IS CAUSED BY MATERY, WHO, OR SHIELD PERSON STIDMANDATION IS CAUSED BY MATERY, WHO, OR SHIELD PERSON STIDMANDATION IS CAUSED BY MATERY, WHO, OR SHIELD PERSON STIDMANDATION IS CAUSED BY MATERY, WHO, OR SHIELD PERSON STIDMANDATION IS CAUSED BY MATERY, WHO, OR SHIELD PERSON STIDMANDATION IS CAUSED BY MATERY, WHO, OR SHIELD PERSON STIDMANDATION IS CAUSED BY MATERY, WHO, OR SHIELD PERSON STIDMANDATION IS CAUSED BY MATERY, WHO, OR SHIELD PERSON STIDMANDATION IS CAUSED BY MATERY, WHO, OR SHIELD PERSON STIDMANDATION IS CAUSED BY MATERY, WHO, OR SHIELD PERSON STIDMANDATION IS CAUSED BY MATERY AND STIDMANDATION STIDMANDATION IS CAUSED BY MATERY AND STIDMANDATION STIDMATERY AND STIDMANDATION STIDMATERY AND STIDMATERY
- CONTRACTOR SHALL PERFORM CONSTRUCTION SECREMOND SUCH INAT FARTH MATERIALS ARE LEPOSED FOR A MANAGINA OF THE DEPORT THEY ARE CONSTRUCTION SECREMOND SUCH INAT FARTH MATERIALS ARE LEPOSED FOR A MANAGINA OF THE DEPORT THEY ARE CONSTRUCTION SECREMOND SUCH INAT FARTH MATERIALS ARE LEPOSED FOR A MANAGINA OF THE DEPORT THEY ARE CONSTRUCTION SECREMOND SUCH INAT FARTH MATERIALS ARE LEPOSED FOR A MANAGINA OF THE DEPORT THEY ARE CONSTRUCTION SECREMOND SUCH INAT FARTH MATERIALS ARE LEPOSED FOR A MANAGINAL OF THE DEPORT THEY ARE CONSTRUCTION SECREMOND.
- R. ALL SOL TRESSON AND STORENT CONTROL PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH KEP YORK STANDARDS AND SPECIFICATIONS FOR EPOSION AND SEMILIN" CONTROL (MYSIC), AND 2005).
- ID. ALL ENTSIDE AND SEDMENT CONTROL MEASURES SHALL BE MENTAHED UNTIL COMPLETON OF CONSTRUCTION AND SHALL BE IN ACCORDANCE WITH THE INSERC REQUIREMENTS.
- THE TIMM OF CAMPE, MYSCE OF THE STIE ENGINEER MAY RECLEST ADDITIONAL MEASURES TO UNMADE THE POTENTIAL FOR OWNER OR OTHER'S CROSEN PROBLEMS THAT WAY DECORE DRIVE CONSTRUCTION. THE CONTINUETED IS REPORTED FOR COMPANY THAT IS A MARKETS.
- Contraction of a magnetized contraction to the magnetized and magnetized by a strategies of solver and provide the magnetized by the magne
- ANY GRACED AREAS NOT SUBJECT TO FURTHER DISTURBANCE ON CONSTRUCTION TRAFFIC SHALL, WITHIN 10 DAYS OF TIME CRADING, RECENCE PERMANNEL VICETATIVE CAREA BI COMMANDON WITH SATABLE MARCH AS PAYS IN 6 STRUCTURED.
- 14. OUT DE ALL SLOPES STEEPER THAN 3-1 SHALL DE STABUIZED HANEDIATELY ATRES DAARME
- IS THE SHALL AT ALL TAKE OF GRAVES AND WATHARD S.C. THE SALL STORMART RUNOF IS DESCRIPTION AND SCHWART CONTROL FACTORES.
- 18. ALL STOPH DRAMAGE OUTLETS STALL BE STADLED. AS REDURED. REFORE THE DISCHARGE PRINTS REDUKE GREATIONN.
- CONSTRUCTION FEMORES SHALL BE USED TO PROTECT EXISTING TREES TO REMAY, METLANDS AND DTHEP SUMETING AREAS, REFER TO BEE PROTECTION NOTES ON LONGSLAVE, FLAM FOR ADDITIONAL INFORMATION
- 15. If the any reason the construction is include for extended persons, the constractor stall, stability the solution antipul by inconducto or other means, to the satisfaction of the converse for hill areas occord on view for non-
- IR STORM WATCH FROM DISTURSED AREAS MAST BE PASSED THROUGH AN APPROVED CONTROL DEVICE BEFORE BONG DISCHARZED BEFORE DISTURSED AREAS ON DISCHARGED INTO INCLUS OF DIFCH DIAMAGE SYSTEMS.
- D INST CONTROL WATER DAWL BE APPLIED BY SYMMALTE DA BATER TRUCK LUNNE CAMPAG OFFICE MANAGE STEMATH TRANSPORT AND MARKING ACCEPTABLE AN GULITY CONDITIONS, MPETIMAE TRANSPORT SYNLL BE GOAR & RECTOR TRANSPORT AND MARKEN AN EXTRAPLE.
- In the strict substance of the Standard composition of the strict substantial of the comparison of the strict substantial s
- 22. 1-6. ODVITAGIOR SHALL REPARE OR REPLACE DAMAGED EROSON COVERD, DEVICES INVERNATELY, AND IN NO CASE, MORE SHAN TRANSF FOR (24) HOLPS ATTER OFSERVAS SECH DEPICEMENTS
- 23. THE CONTRACTOR SHALL BE PREMARED TO IMPLEMENT INTERM DRANING CONTROL SAMD EROSEN DONTROL MEASURES AS MAY BE RECESSARY DURING THE COLLESS OF DRASTRUCTION
- N THE DON'TRACTOR SHALL MARE AVARABLE DAN'TE ALL FOLDWARKT, MATERIALS AND LARGE NECESSARY TO PERIODAL EMPERATOR RECORD CONTROL AND DRAWARE MERCINE ALS WHEN YEAR (4) HEARS OF ARE INSTRUCE ANTROPOLY STUDIED.
- 25. ML SCE PRODUKTING OF STREAM REASERS MALE MANAGED BY DE CONTRACTOR VITE FAIN ACCEPTING OF MS STEE WORK BY NO AMONG INFORMATION OF INAL ACCEPTING, THE OWNER WILL ASSAULT REPORTED IN THE CONTRACT ANNUTATION OF PRODUCTS DOL FROM SEMANT CONTROL (#4398).
- 25. PHASES OF CONSTRUCTION INCLUDING GLEARING AND GRURRING, PRELIMINARY SPE PREPARATION, UTULT INSTALLATION, INSTALLAMART SPACING, ETC., REGURE, INC. RETURNING ASJRES TO BE IN PLACE.
- 27. NO CONSTRUCTION ACTIVITIES OF ANY RAD SHOULD OCCUR WITHIN THE LIMITS OF THE REVIEWED AREAS NOLLIMINE, BUT NOT LAITED TO CARANCE, DEVANTION, STOCKTURE OF WATHING, STRUCTURE OF CONSTRUCTION NOMENTY, VINAET PARAMEM, WOMENT OF WATHING OF WATHING, OF OUNDAWD OF CONSTRUCTION CORRECT, VINAET PARAMEM, WOMENT OF WATHING OF WATHING, OF OUNDAWD OF
- CONTRACTOR SMALL REFER TO THE ERSTRICH DETAILS FOR THE PROFEDENCE MEASURES PROPOSED.
- 28. CONTRACTOR SHALL BE RESPONSED, FOR COMPLANCE WITH ALL SEDMENT AND EROSON CONTROL REACTORS. Inf. SEDMENT: AND EROSON CONTROL PRACTICES AND TO BE INSTALLD PROF. IN AND REACTORS SOL DISTUBLIANCES AND WITH THEOREM UP TO THE ON A SEDMENT PROF. CO. HIS STATUSED o all erosion and security control measures stall be installed as described in the frame.
- I. ALL REPOOL HOT TO BE USED FOR THAL GOUGHE SHALL BE REMOVED FROM THE STATEMENTARY AND PLACED IN A STABLED STROPPLE OR THE AREA, ALL TOPSICA REQUIRES FOR FINE, GRUDNE AND STORED ON STR SHALL BE UNCO. THIRTCOLE, THYOMARY SECURIC AND AND ACCOUNTRY AND ASTS.
- 32. THE COMPACIENT STRESS OF STRESS CLEANING HECKSON DURING THE COURSE OF THE PROJECT
- 33. SIDMENT AND EROSON CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABULZED WIRN THE SCHWARE AREA HAS BEEN PROPERLY STABULZED BY PERMANENT INDESIRES.

4. UPDI COMPLEXEM OF CONSTRUCTION AND ESTABLISHMENT OF PIRALASENT OROLAD OWER, CONTRACTOR Date, 16 MOVE AND DEPOSE OF ERCENT COMPREL MEASURES AND CLEAN SEDMENT AND DEPOSE PROM EN ON DIRECTIONED DATABASE ASSOCIATES.

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| na na | COMPARY | ADDRESS | CITY STATE ZIP | PASCEL ID |
|-------------------------|---------------------------------|--------------------|--------------------------|--------------|
| POWE | KONFIDERC MODELE FARK LLC | PO BOX 443 | MAINOPAC FALLS, NY 10542 | 65.9-1-11 |
| ROBERT BUTTIGLIONE | the second second second | RTE 118 BOX 68 | BALDWIR PLACE, NY 10505 | 65.10-2-4 |
| CARE LINQUIST | 1 | 1007 WT 6 | MAHOFAC, NY 10541 | 65.10-2-14 |
| BRIAN GALLAGHER | | 18 BALDWH UN | HAAHOPAC, NY 10541 | 65.10-2-16 |
| GEORICE PALMIERO | | 16 COUNKY RD | BRAHOPAC, NY 18541 | 10.2.3 |
| ELLA RODRUGHEZ | | 19 BALDWIN IN | MANDRAC, NY 10541 | 65.10 2-17 |
| KATHLEEN EDWARDS | | 2 BRUDWIN UN | MAHOPAL, NY 10541 | 65.10.2.15 |
| ELLEN MAARIE ZUTTOLI | | 22 BALDWIN DN | MAHOPAC, NY 10541 | 65 10 2 19 |
| GEORGE PALMIERO | | 24 COONEY TO | MAHOPAC, NY 10541 | 65.10-2-2 |
| E GHA GUSS | | 30 WURDIN POHID RO | MAI-OFAC, NY 10541 | 65.9-1-12 |
| CARLOS TERENPAGNAY | | 390 EAST LAKE BLVD | MAROPAC, WY 10541 | 65.8-1-13 |
| ANTHONY MORANDO | | PO BOX 962 | MAROPAC, NY 10541 | 6510-1-52 |
| NCOLE STERN | | L'IRTS | MANDRAC, NY 10541 | 65.9-1-26 |
| ANTHONY MORANDO | | 20 BOX 962 | MARICHAE, NY 10541 | 65 10-1-51 |
| ent souls of openalizes | ISLAND DREAM ASSOCIATES, LLC | 110 CHERRY HILL AD | CARMEL NY 10512 | 65.10-1-50 |
| | 965 EAST LAKE BOULEVAND LLC | PO BOX 307 | BALDWIN PLACE, NY 10505 | 65.9-1-28 |
| | BATISTIA FAMILT LTD PARTNERSHIP | - DE ENGLE RD | DAMBURY, CTOSAID 10575 | 65.10-1-49.2 |
| | NOXUNG BROOK LIC" AP "MENSHIP | 25 MAIN STFLATH | PARTFORD, CT DEED | 18.161-19.1 |
| AW/IENCE VELLA | 30546 M (6P066 (1) | IS MINOR LT | DREWSTER MY 10509 | 65.10 1 44 - |

500-Foot Abutter's List

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500-Eoot Abutter's Map 500-Foot Abutter's Map

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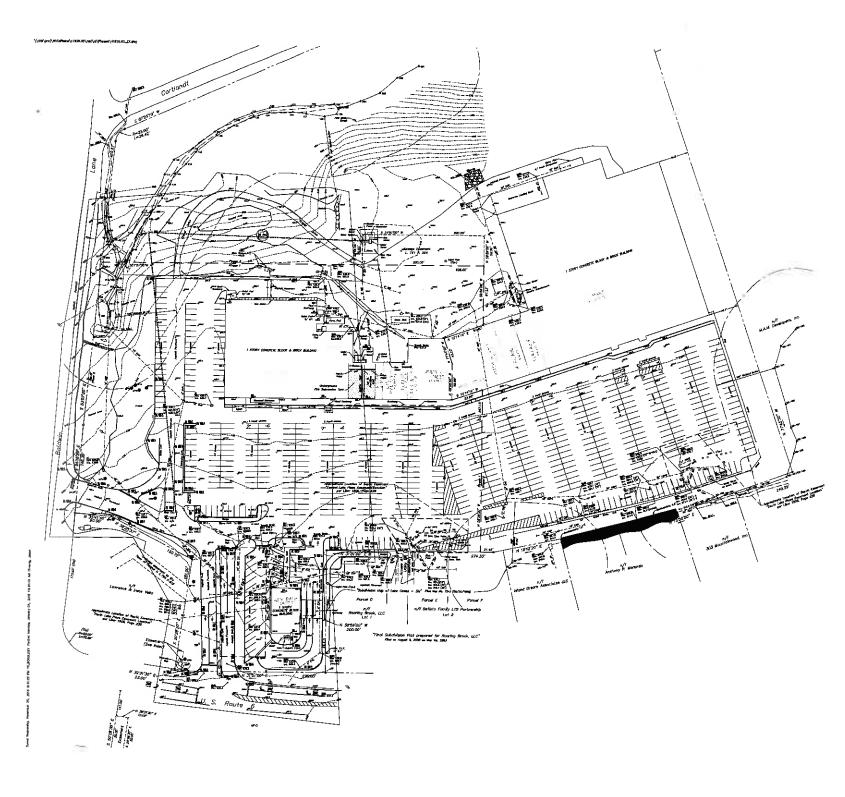
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n Approval "November 90.20 n Approval November 90.20 word for Construction





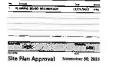




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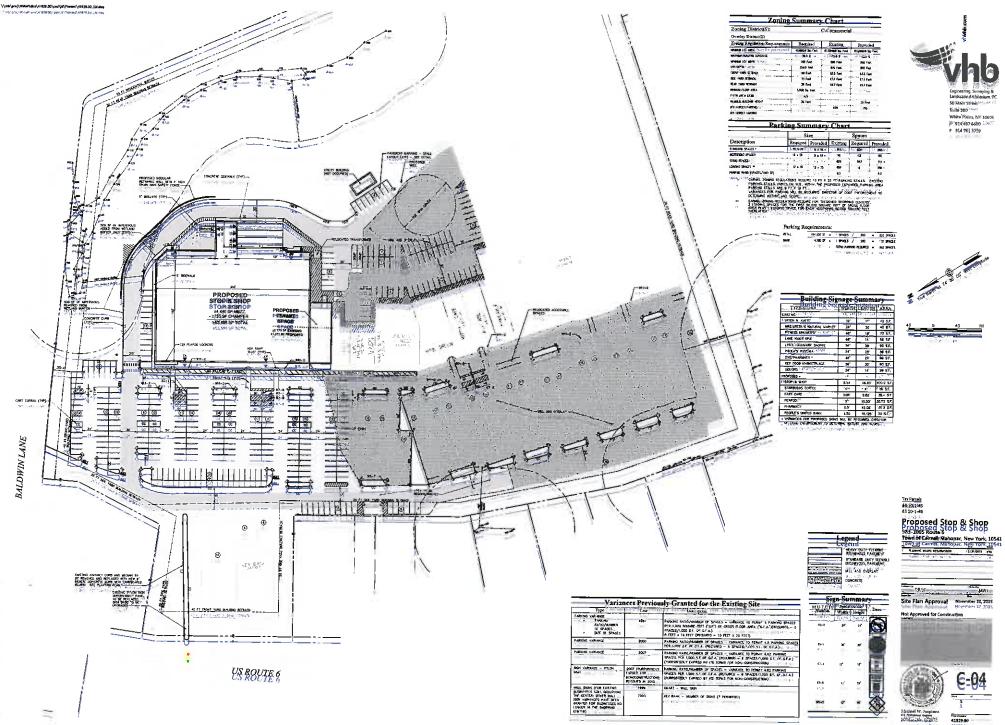
Tex Parcels 65.10-1-45 65.10-1-46

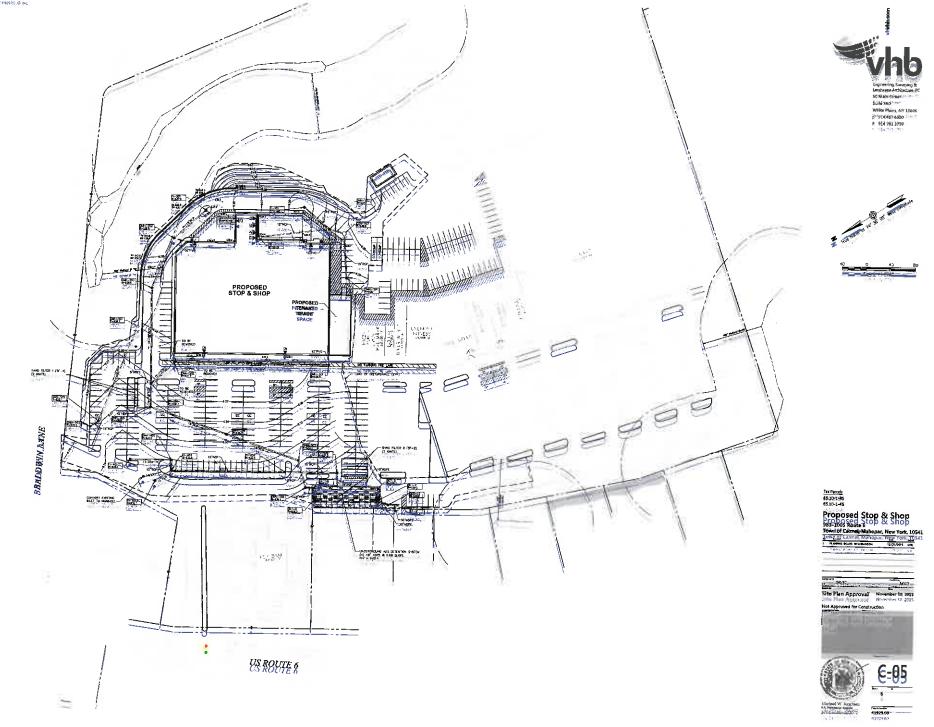
Proposed Stop & Shop 983-2005 Route 6 Town of Carmel, Makopac, New York, 10541

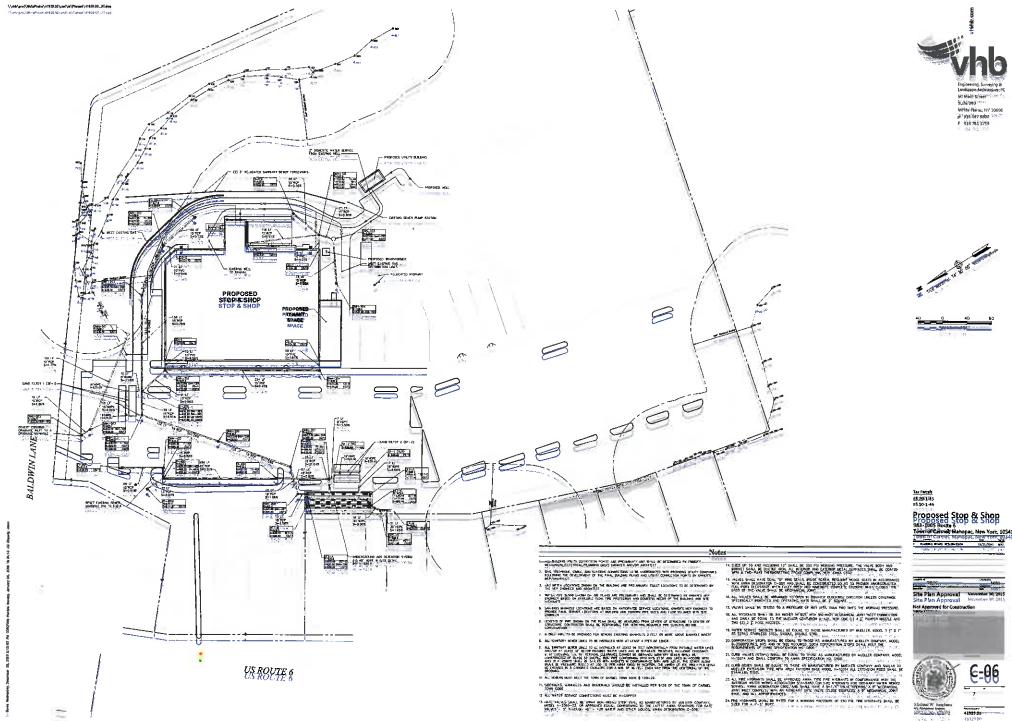


Not Approved for Construction Extention Construction Pillion

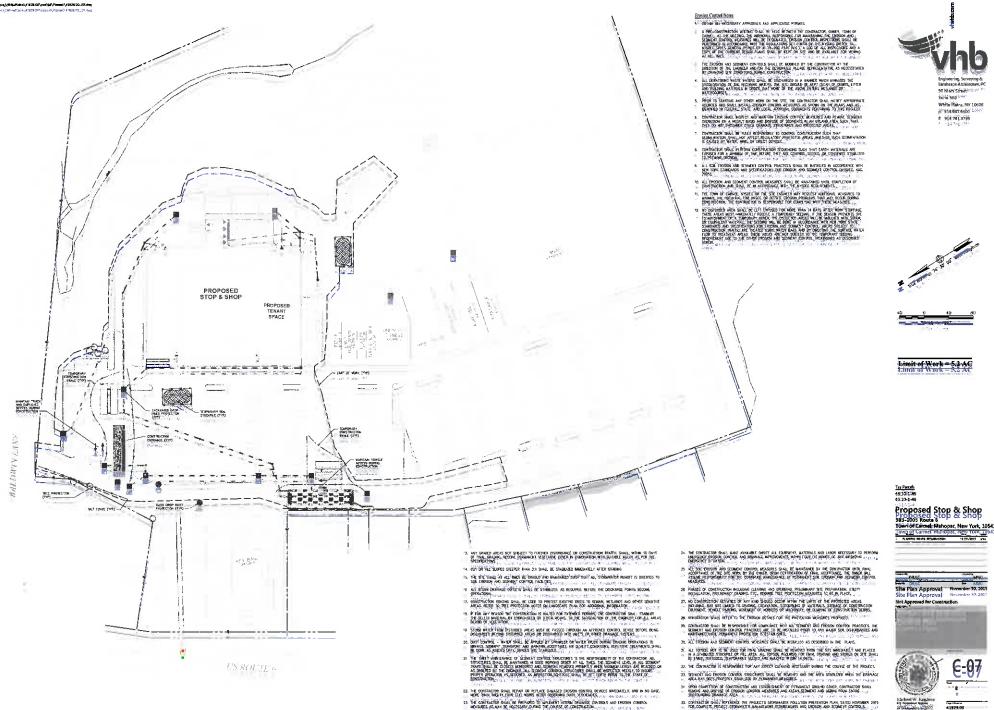












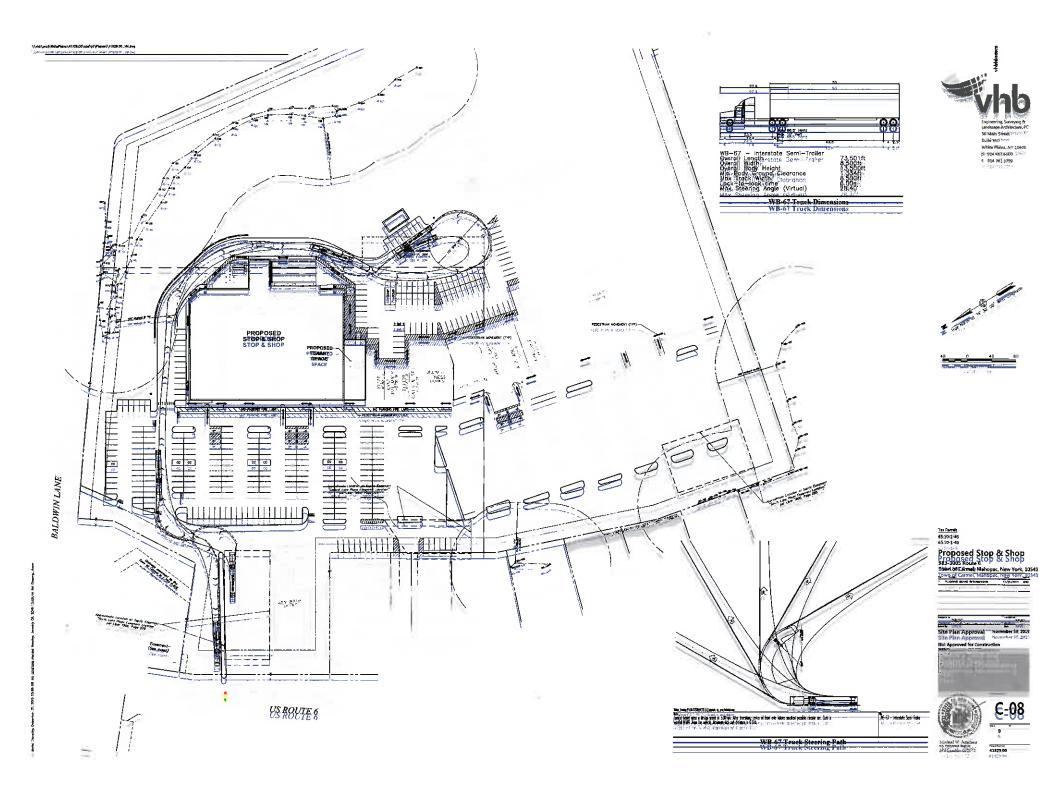
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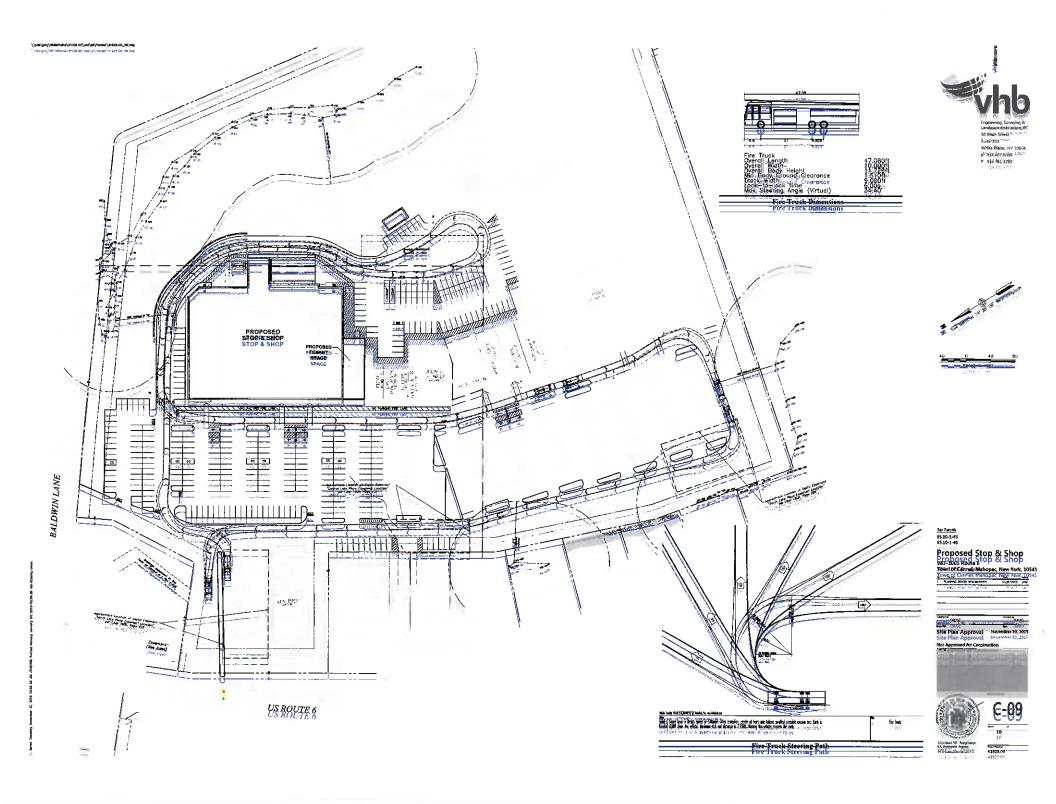
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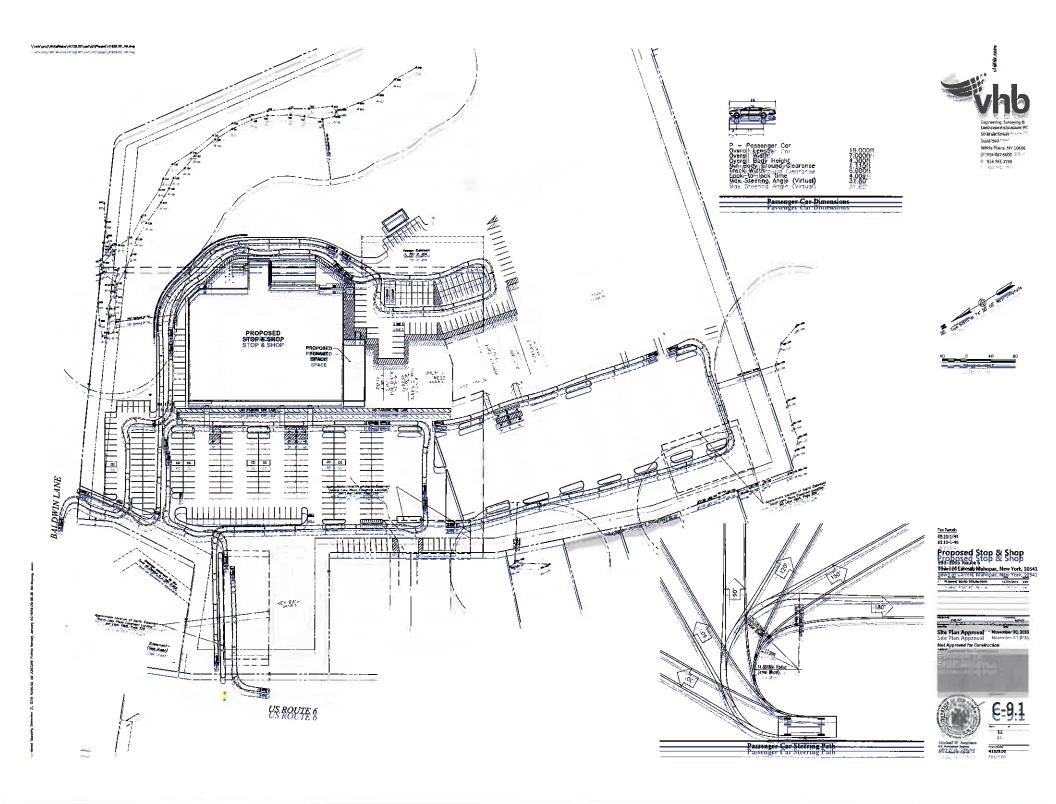
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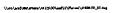
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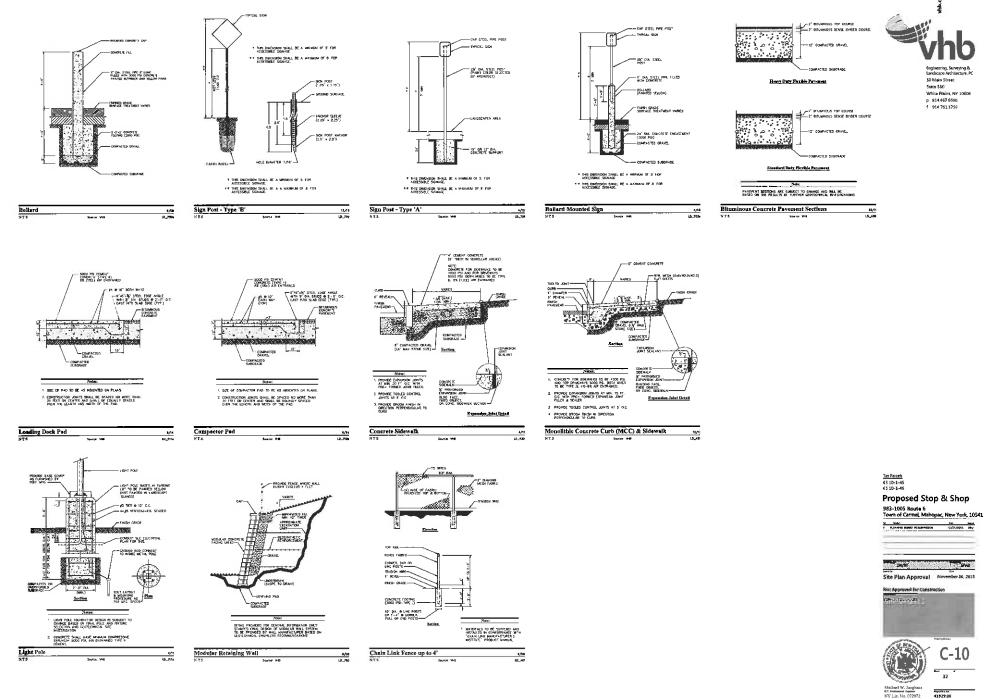


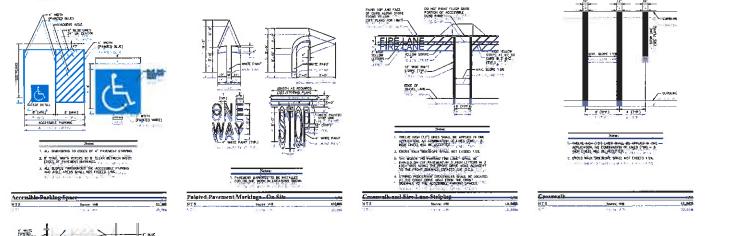




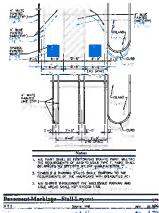








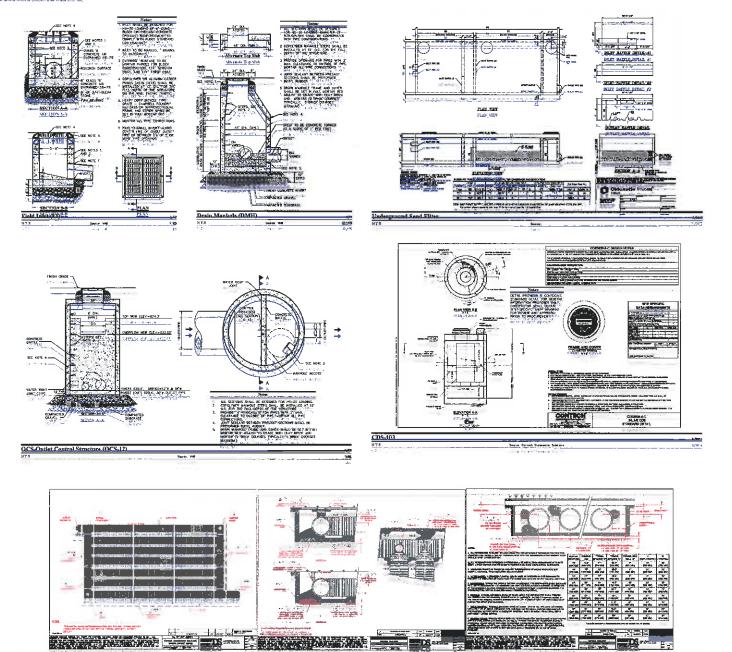






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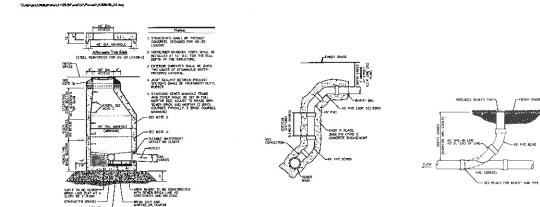
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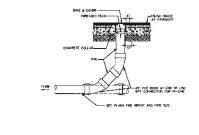




Source: ADS+Np



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6/13 LD_363

Cleanout - Paved Area



<u>Tex Parcels</u> 65.10-1-45 65 10-1-48 Proposed Stop & Shop

983-1005 Route 6 Town of Carmel, Mahopac, New York, 10541



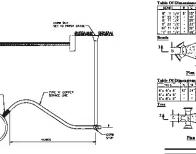
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Michael W. Junghung 87, Protocial Englant 41929.00 NY Lic. No. 072072





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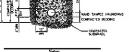
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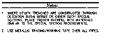
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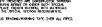




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Cleanout - Landscape Area

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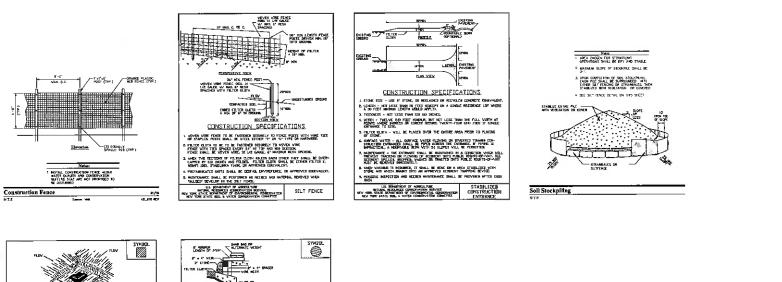
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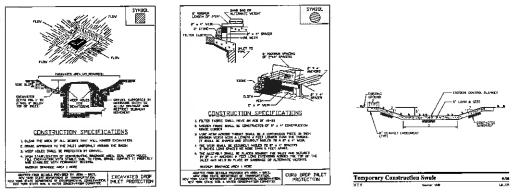


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Proposed Stop & Shop 983-1005 Route 6 Town of Carmel, Mahopac, New York, 10541



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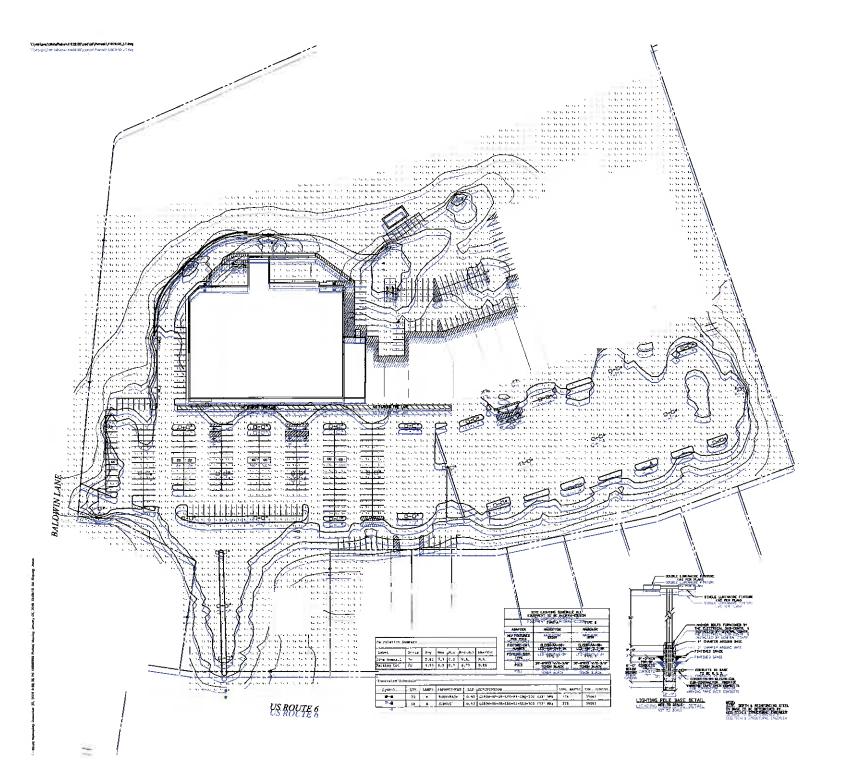
White Plains, NY 10605

Suite 360



Not Approved for Construction

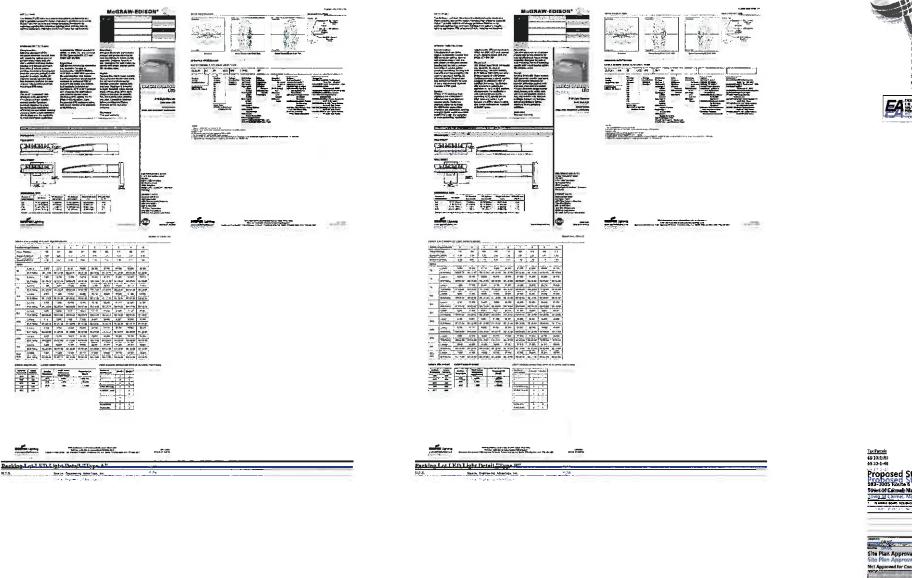






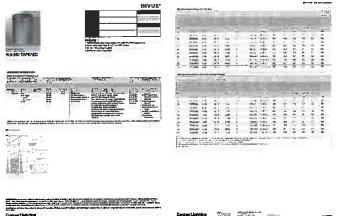








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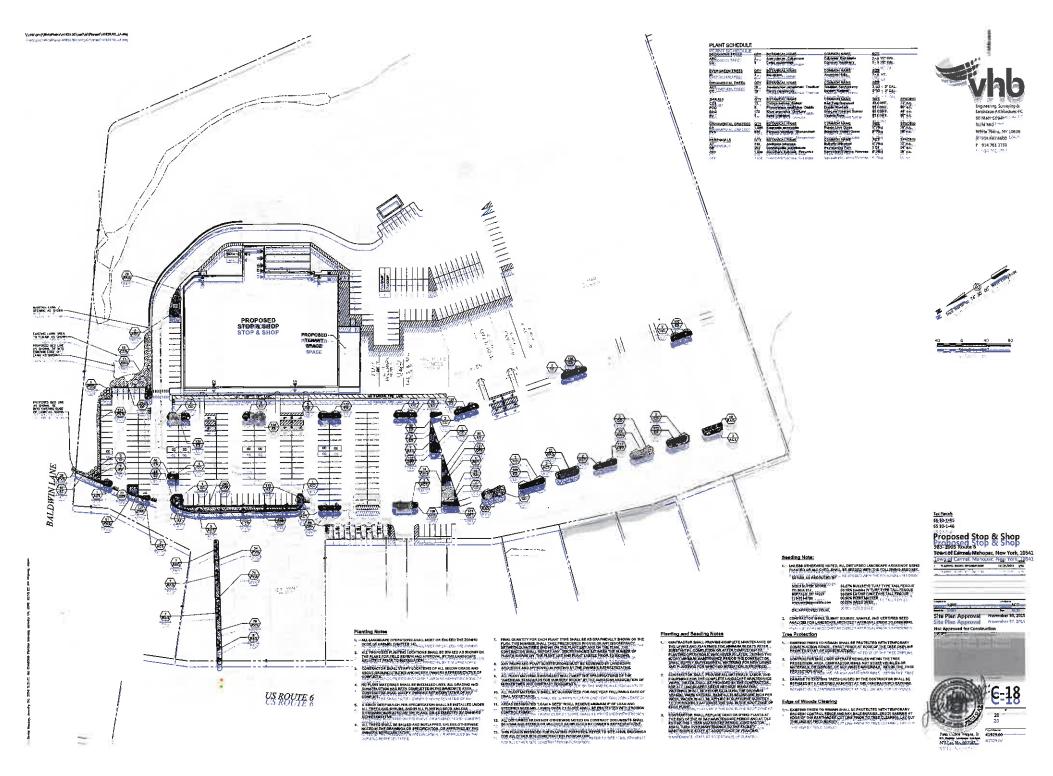


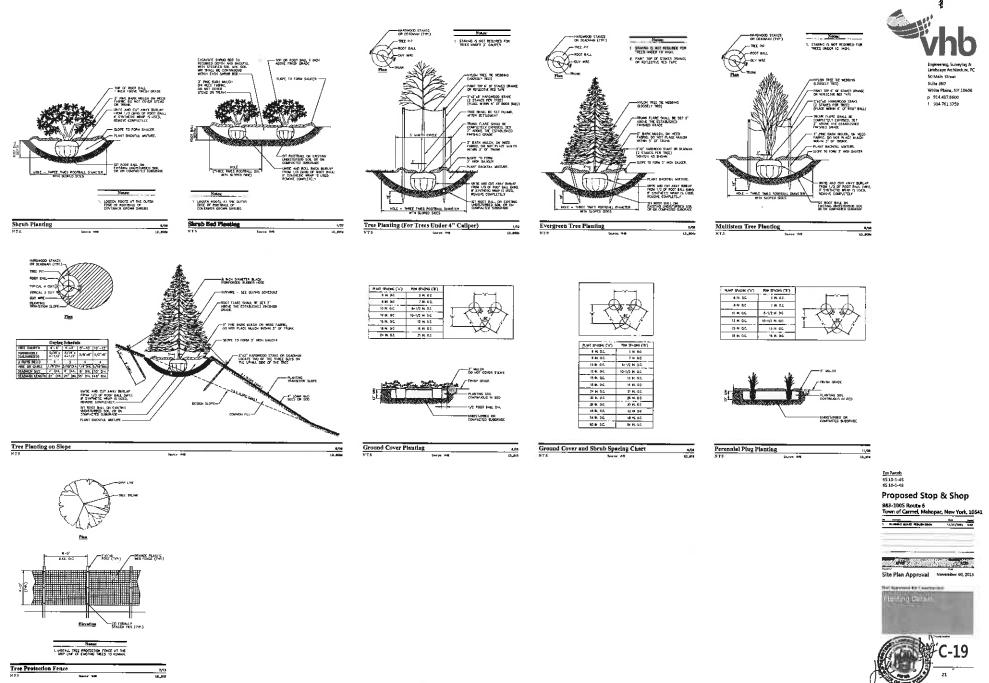






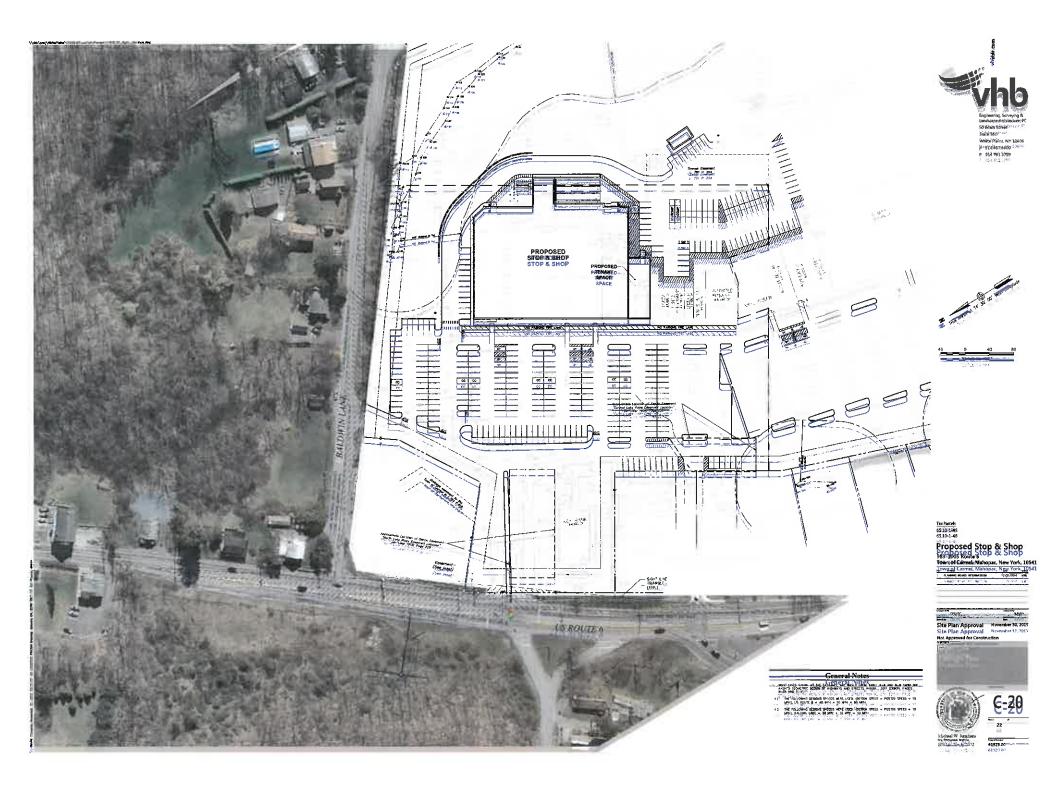






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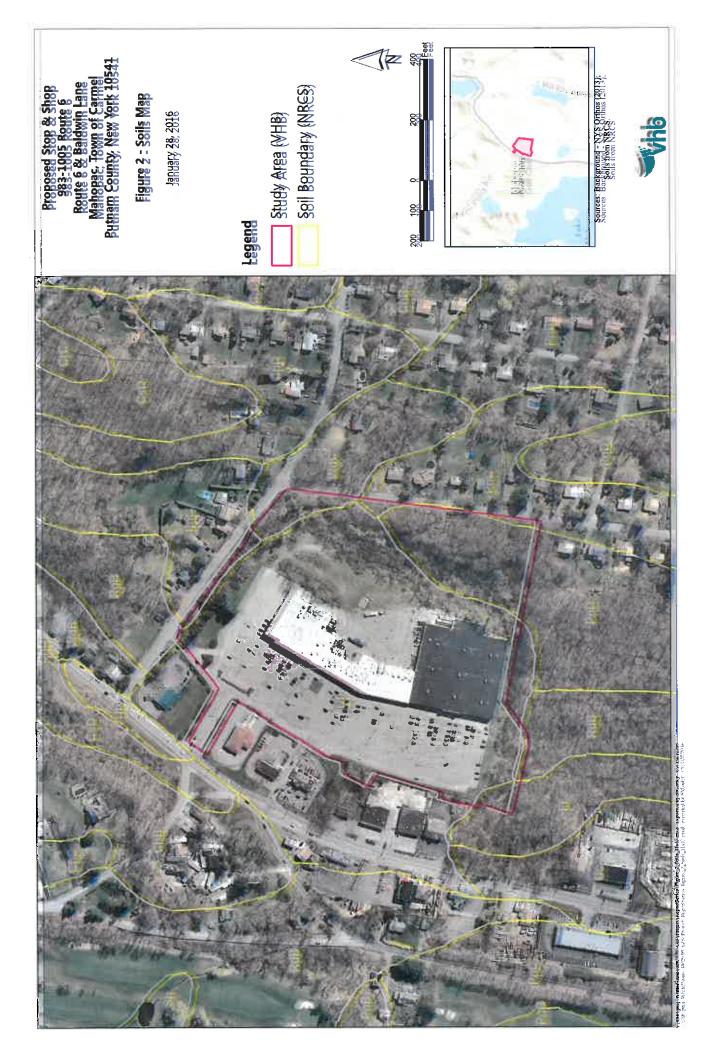
Wetland Permit Application | January 28, 2016

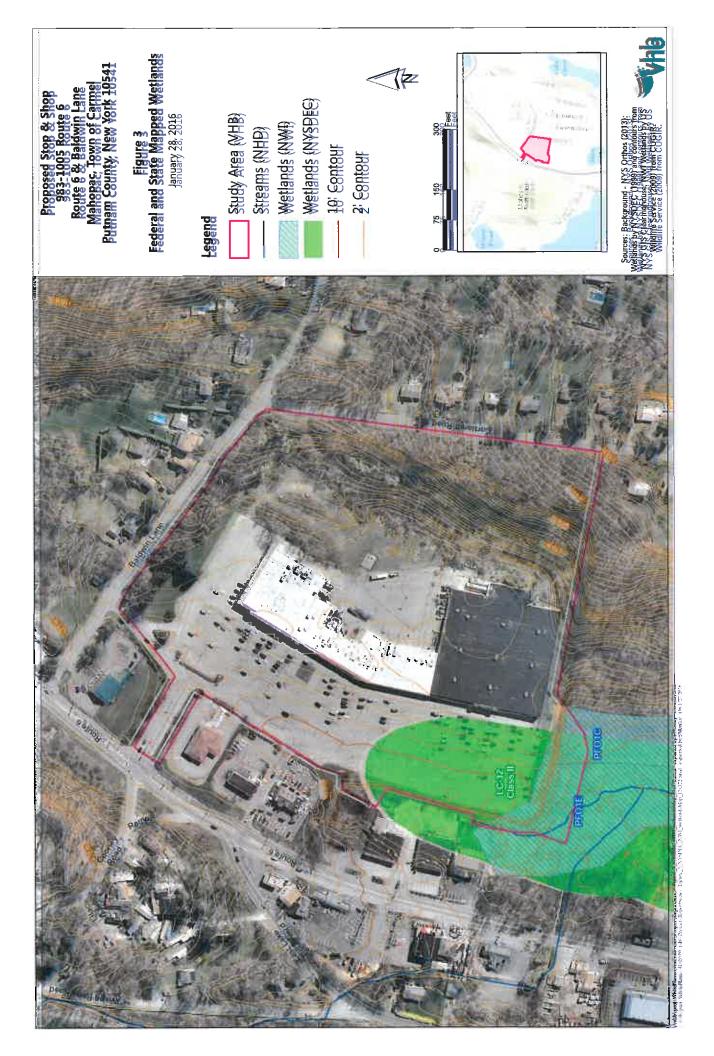
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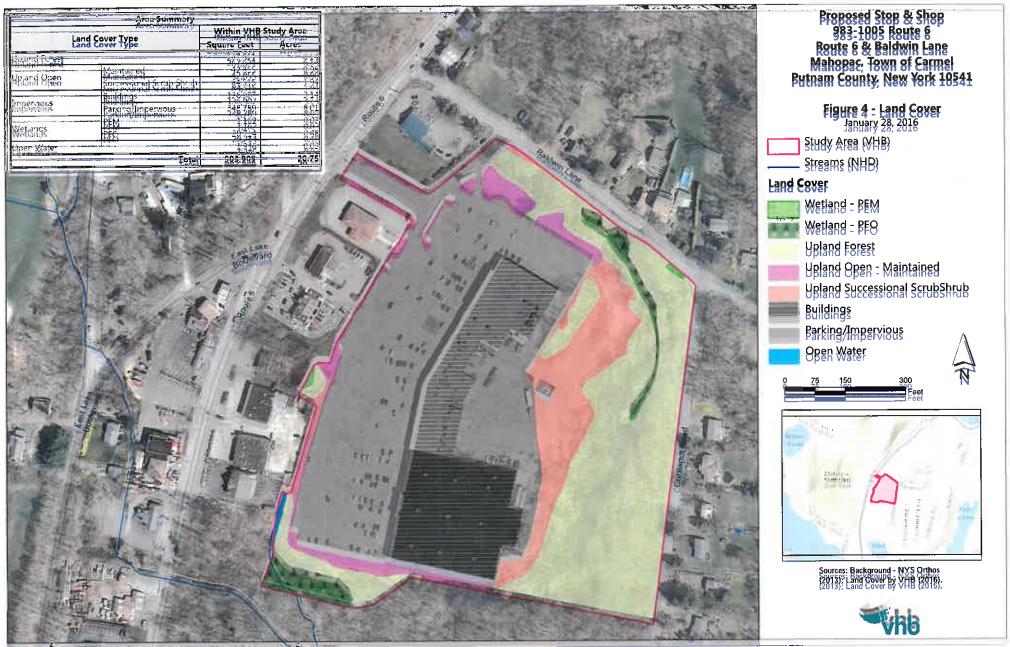
Appendix E: Figures

Figure 1. Site Location Figure 2. Soils Map Figure 3. Federal and State Mapped Wetlands Figure 4. Land Cover Figure 5. Natural Resource Map Figure 6: Flow Map Figure 7. FEMA/FIRM

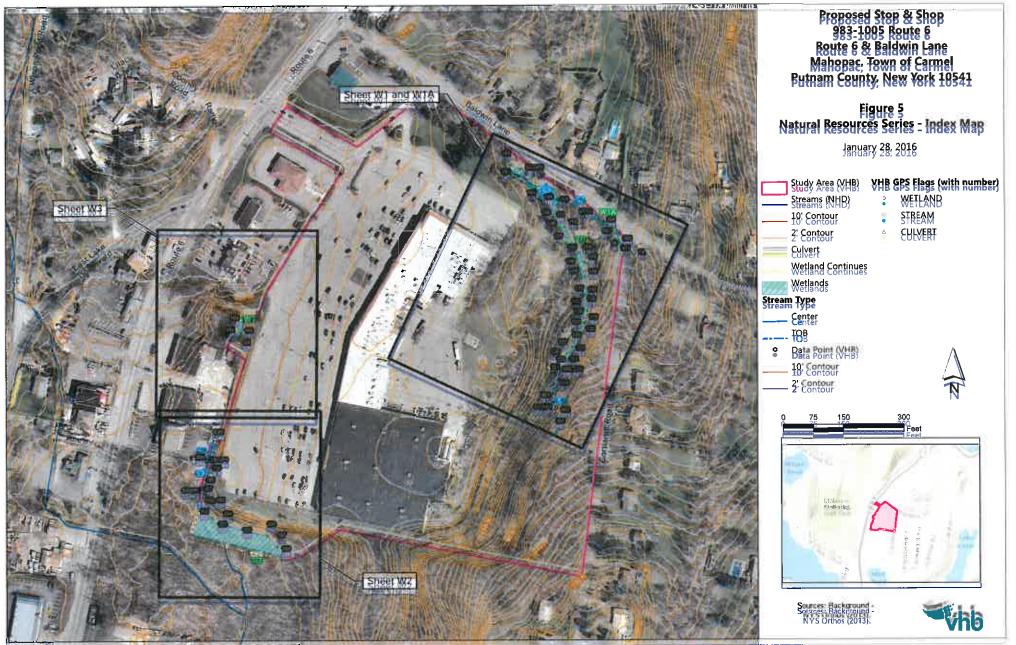




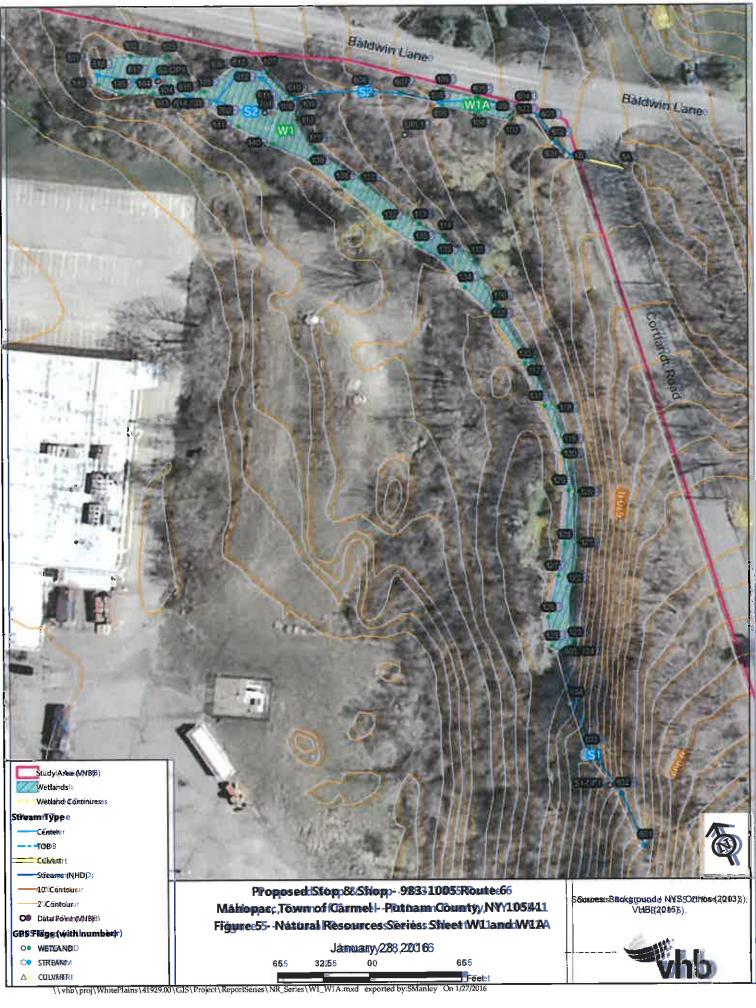


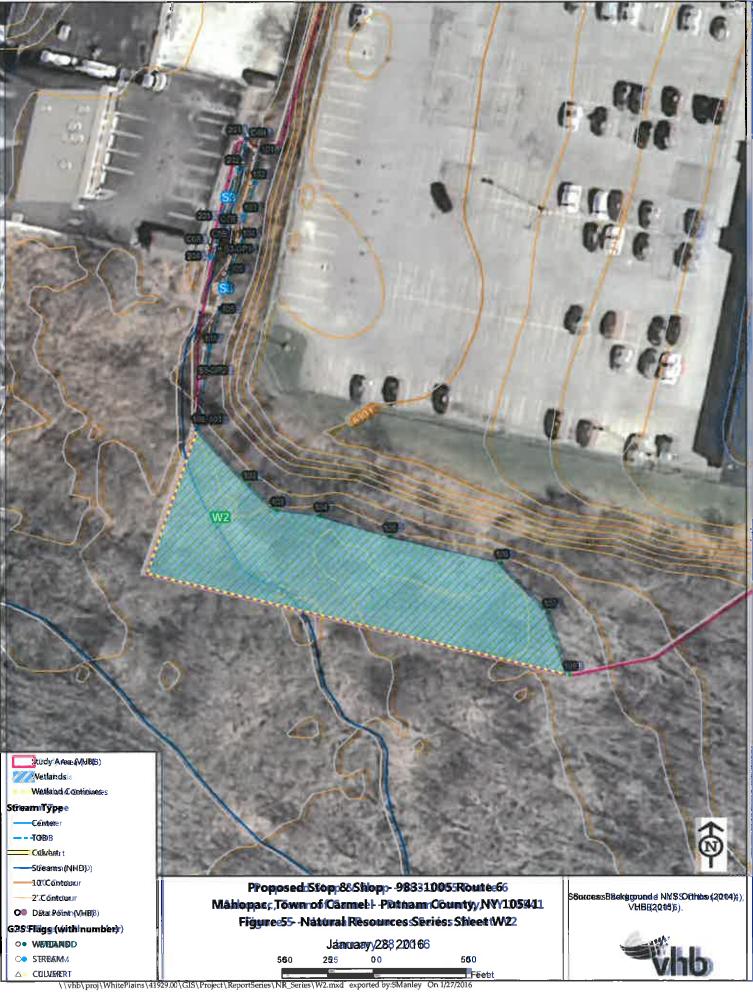


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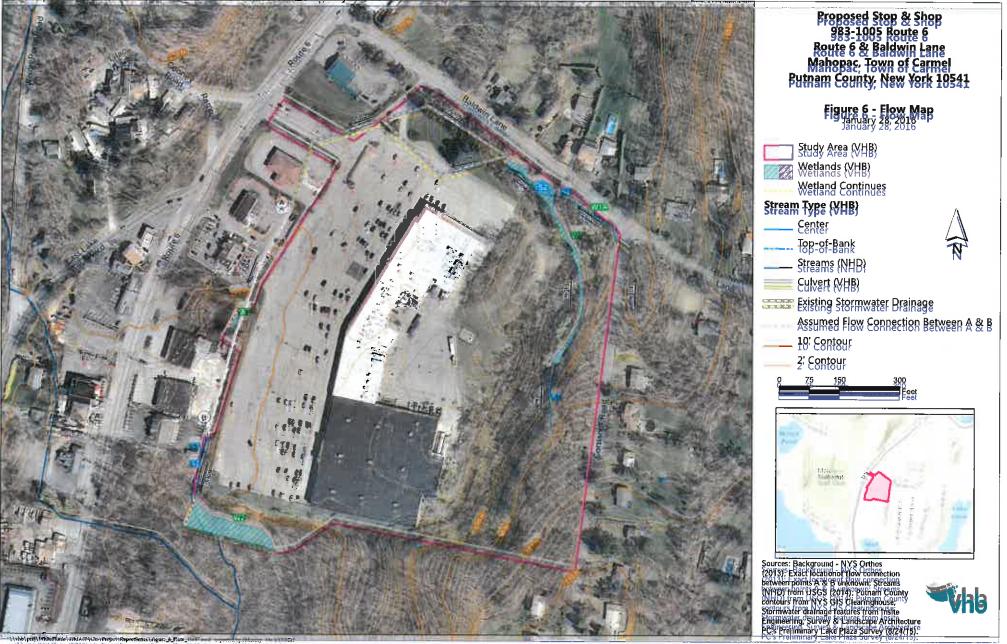


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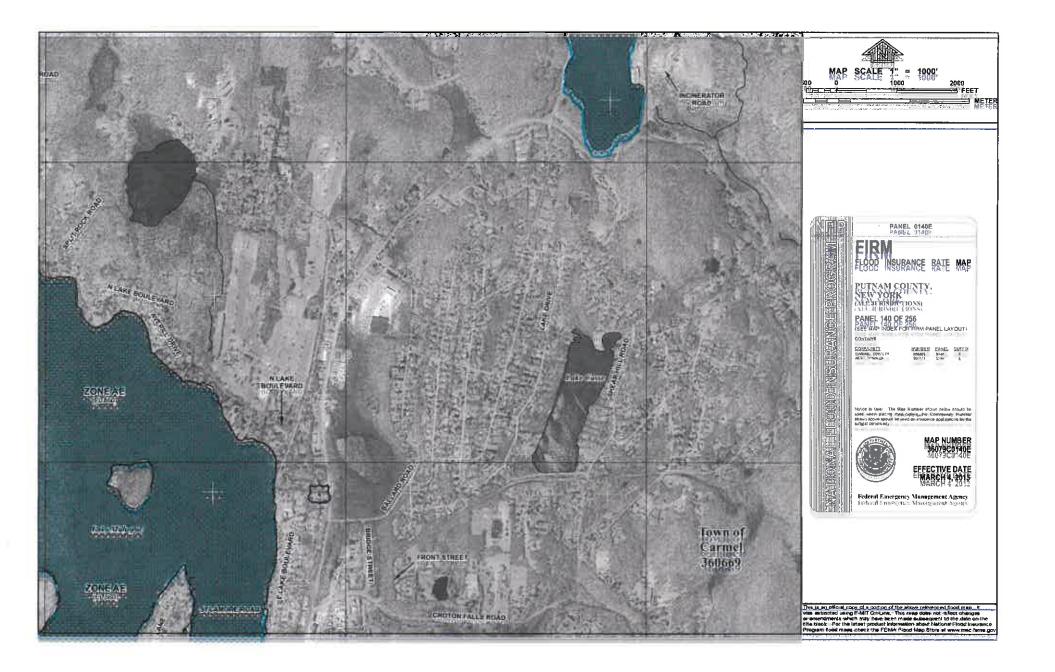








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Town of Carmel, NY ECB | Proposed Stop & Shop, Mahopac New York

Appendix F: Tables

Table 1: Summary of Soils Table 2: Summary of Delineated Wetlands Table 3: Summary of Delineated Streams

Lake Plaza Shopping Center, LLC; Heidenberg Properties Group Proposed Stop & Shop 983-1005 U.S. Route 6, Mahopac, Town of Carmel, Putnam County, New York Prepared by VHB; Project 41929.00 Table 1: Summary of Soils

January 28, 2016

| | | | | | | S | oil Areas | |
|---|---|--|-------|-------------------------|-------------------|-----------------------|-----------|-------------|
| Soil Unit Symbol | 6-11-16-1-1- | | Slope | | Hydric | Within VHB Study Area | | |
| | Soil Type | Landform | (%) | Drainage Class | Soil ¹ | (Sq. Ft.) | (Ac.) | Percent (%) |
| Ff Fluvaquents-Udifluvents com Ff frequently flooded | | Flood plains | 0-3 | Poorly drained | Yes | 8,601 | 0.20 | 1% |
| PnC | Paxton fine sandy loam, 8 to 15 percent slopes | o 15 Drumlins, ground 8-15 Well drained I moraines, hills | | No | 21,318 | 0.49 | 2% | |
| PnD | Paxton fine sandy loam, 15 to 25 percent slopes | Drumlins, ground moraines, hills | 15-25 | Well drained | No | 115,805 | 2.66 | 13% |
| RdB | Ridgebury loam, 3 to 8 percent slopes | Hills, till plains, drumlinoid ridges | 3-8 | Somewhat poorly drained | Yes | 1,414 | 0.03 | 0% |
| RgB | Ridgebury loam, 2 to 8 percent slopes, very stony | Hills, till plains, drumlinoid ridges | 2-8 | Somewhat poorly drained | Yes | 1,060 | 0.02 | 0% |
| Uf | Urban land | N/A | N/A | N/A | No | 729,084 | 16.74 | 81% |
| WdC | Woodbridge loam, 8 to 15 percent slopes | Drumlins, ground moraines, hills | 8-15 | Moderately well drained | Yes | 26,611 | 0.61 | 3% |
| | | | | | Total | 903,893 | 20.75 | 100% |

¹ Hydric Soil rating from USDA NRCS Soil Survey Geographic Database for Albany County, New York (soil survey area version 4/10/2015).

² VHB Study Area extends beyond project parcel boundary to the south and west; however it does not include the Key Bank portion of the property. Thus, the study area total of 20.75 acres is less than the parcel size of ~21 acres.



Lake Plaza Shopping Center, LLC; Heidenberg Properties Group Proposed Stop & Shop 983-1005 U.S. Route 6, Mahopac, Town of Carmel, Putnam County, New York Prepared by VHB; Project 41929.00 Table 2: Summary of Delineated Wetlands January 28, 2016



| VHB Wetland ID | Loca | tion | USACE Data Form | Delineated Area ¹ | | Delineated Area ¹ | | Cowardin Classification ² | Freshwater NYSDEC Wetland Type ³ Classificati | | Typical Vegetation ⁴ | Wetland Indicator Comments |
|----------------------|-----------|------------|------------------|------------------------------|-------|------------------------------|--------------------|---|---|--|---------------------------------|----------------------------|
| 1D | Latitude | Longitude | | (Sq. Ft.) | (Ac.) | | | | | | | |
| W1 | 41.39167 | -73.720532 | W1-WET1 and UPL1 | 9,030 | 0.21 | PFO1B | Deciduous Swamp | N/A | Acer rubrum; Salix nigra; Phalaris arundinacea; Celastrus orbiculatus | Saturated at surface; high water table at surface; surface water at 3 inches deep; water-stained leaves; drainage patterns; geomorphic position; microtopographical relief present. Hydric soils. | | |
| W1A | 41.391798 | -73.720098 | N/A | 531 | 0.01 | PEM5B | Ernergent Marsh | N/A | Polygonum cuspidatum; Rosa multiflora; Berberis thunbergii; Mitella nuda | Saturated at surface; surface water present; small fringing PEM along S2. Hydric soils. | | |
| W2 | 41.389679 | -73.723504 | N/A | 11,685 | 0.27 | PFO1C/1E | Deciduous Swamp | LC-32, Class II | Acer rubrum; Fraxinus pennsylvanica; Salix sp.; Cornus sericea; Phragmites australis; Lythrum salicaria | Surface water present. Saturated at surface with high water table in areas not inundated. Water-stained leaves, drainage patterns present. Hydric soils. | | |
| W3 ⁵ | 41.39109 | -73,723433 | N/A | 630 | 0.01 | PEMSB | Emergent Marsh | N/A | Fraxinus pennsylvanica ⁶ ; Cornus sericea; Phragmites australis | Surface water and saturation; hydric solls. | | |

Total Area of Wetlands within VHB Study Area 21,876 0.50

NOTES:

¹ Delineated Area is the approximate, VHB GPS-surveyed limits of the identified wetland boundary; wetland areas displayed in **bold** continue outside of the Study Area.

² Classification follows Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitat of the United States. U.S. Fish and Wildlife Service. FWS/OBD-79/31. 103pp.

³ Freshwater Wetland Covertypes follow those described in Section 578.3 of the of the New York State Adirondack Park Agency Rules and Regulations (Last Revised: September 20, 2011).

⁴ Species nomenclature follows the USDA Plants Database (USDA - NRCS 2014) http://plants.usda.gov/java/.

⁵ Wetland 3 (W3) appears to be an old retention basin that has not been maintained. It has since developed wetland indicators.

⁶ Tree stratum rooted outside of Wetland 3 (W3) boundary; however tree canopy cover exists over the wetland area.

Lake Plaza Shopping Center, LLC; Heidenberg Properties Group Proposed Stop & Shop 983-1005 U.S. Route 6, Mahopac, Town of Carmel, Putnam County, New York Prepared by VHB; Project 41929.00 Table 3: Summary of Delineated Waters January 28, 2016



| Stream | USGS Stream/ Water Name | eam/ Location ater | | Average Ordinary High Water (OHW-width or elevation) ² | | Ordinary Stream Channel High Water Within (OHW-width Jurisdictional | | Jurisdictional Determination | | Flow Regime (Perennial, Intermittent, Ephemeral and Ditch) ⁴ | Surface Water Classification ⁵ | Cowardin Classification ⁶ | Comments |
|------------|----------------------------------|-----------------------------|------------------|---|---------------|---|---------|------------------------------|---|---|--|---|----------|
| | | Latitude | Longitude | (Feet) | (Linear Feet) | (Square Feet) | (Acres) | | | | | | |
| 51 | (unnamed) | 41.39057 | -73.720565 | 2 | 151 | 302 | 0.007 | Ephemeral | D | Ephemeral | This is an ephemeral stream orginating from the ridge on the easternmost portion of the parcel. It disperses into W1. | | |
| 52 | (unnamed) | 41.391946 | -73.720427 | 4 | 376 | 1504 | 0.035 | Intermittent | D | Intermittent | S2 enters the parcel from a culvert under Cordlandt Road. It generally fows northwest, then west, through W1A and W1 until it enters a culvert system; and eventually daylights as S3. While S2 may receive some groundwater discharge from W1, it had few indications of year round flow. | | |
| 53 | (unnamed) | 41.390199 | -73.723715 | 8 | 110 | 880 | 0.020 | Intermittent | D | Perennial | 53 primarily flows from a culvert system near the southwest portion of the parcel. The stream receives multiple stormwater discharges, and continues south into W2 (NYSDEC Wetland LC- 32). Based upon field observations, W2 hydrology, and Cowardin classifications; S3 was determined to be a perennial stream. | | |
| Total Leng | th and Area o | of Stream Chan Study Are | nel or Other Wat | ers within VHB | 637 | 2,686 | 0.062 | | | I | | | |

NOTES:

¹ VHB's Stream ID refers to unique ID designated in the field.

² U.S. Army Corps of Engineers (USACE). 2005. "Regulatory Guidance Letter. Subject: Ordinary High Water Mark Identification." No. 05-05.

³ Approximate area of delineated streams within the study area is calculated from the average OHW time the length of delineated stream channel within the study area.

⁴ Stream flow regime determined based on qualitative observations of in stream hydrology indicators and geomorphic characteristic and are subject to professional judgment.

⁵ Surface waters classifications were made pursuant to 6NYCRR, Chapter X, Article 2, Parts 701 (classification and standards definitions), where Class refers to the water quality classification based on existing (or best expected use); and Standard refers to standards of quality established for Class A, B, and C surface waters. Class D waters also refer to intermittent streams (See: http://www.dec.ny.gov/imsmaps/ERM/streamsRiversLakesPonds.htm).

⁶ Classification follows Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitat of the United States. U.S. Fish and Wildlife Service. FWS/OBD-79/31. 103pp.