

VILLAGE OF BARRINGTON HILLS

Zoning Board of Appeals NOTICE OF MEETING



Monday, April 18, 2016 ~ 7:30 pm
Village Hall - 112 Algonquin Road

AGENDA

1. Call to Order & Roll Call
2. Public Comments
3. [Vote] [Minutes March 16, 2016](#)

PUBLIC HEARING

4. [Continued - 337 Ridge Road, St. Mark's Episcopal Church - Special Use Rectory](#)
5. [205 W. County Line Road, Countryside School CUSD 220 - Special Use Amendment Basketball Court and Sign](#)

PUBLIC MEETING

6. [Vote] [337 Ridge Road, Special Use Amendment Rectory](#)
7. [Vote] [205 W. County Line Road, Special Use Amendment](#)
8. Adjournment

Chairman: Dan Wolfgram

NOTICE AS POSTED

**VILLAGE OF BARRINGTON HILLS
ZONING BOARD OF APPEALS
MacArthur Room – Village Hall
Wednesday, March 16, 2016**

1. Call to Order/Roll Call: The Meeting was called to Order at 7:30 by Chairman Dan Wolfgram. On roll call, the following members were present:

Dan Wolfgram, Chairman
Debra Buettner
Jan Goss
Patrick J. Hennelly
David Stieper
Jim Root

Absent: Richard Chambers
Patrick J. Hennelly

Staff Present: Robert Kosin, Village Administrator
Sean Conway, Legal Counsel

2. Public Comments:

Chairman Wolfgram made a call for public comment. A member of the public, Steve Harrison, provided public comment. Mr. Harrison provided comment on hanging photographs in Village Hall Chambers.

3. Minutes:

February 17, 2016

Member Stieper requested a correction to a vote count on the St. Marks special use matter and explained that he had recused himself from that matter. Chairman Wolfgram requested typographic error corrections. Member Buettner made a general request that the minutes be more detailed.

Member Stieper moved, seconded by Member Root to approve the minutes of February 17, 2016 with corrections. Chairman Wolfgram called for discussion. There was no discussion.

On a voice vote, all Members voted “aye.” The Motion Carried.

4. 337 Ridge Road – Special Use Amendment Rectory

Ms. Gina Erdman, on behalf of the Applicant, made a request to continue this matter to the next ZBA meeting due to the absence of some Members of the ZBA and Member Stieper’s recusal. Ms. Erdman’s request was granted.

5. Paganica HOA, Dormy Lane – Variance for Berm Height

Public Hearing

Chairman Wolfgram convened the Public Hearing on the Petition concerning Paganica HOA, Dormy Lane – Variance for Berm Height. All witnesses were put under Oath.

Robert Kosin provided background testimony on the application for zoning relief and on the required legal Notice.

Mike Hannigan, President of the Paganica Home Owner's Association testified on behalf of the Applicant. Mr. Hannigan provided an overview of the Application for zoning relief. Mr. Hannigan testified that there would be no adverse effects on the neighbors and that the neighbors are in favor of the requested zoning relief.

Member Buettner asked about the number of homes that would benefit from the increased berm height. Mr. Hannigan testified that 12 to 15 would benefit from the increased height.

Member Stieper asked Mr. Kosin to provide some background on the purpose of the Village's berm height requirement and Mr. Kosin provided some background information.

Member Goss asked Mr. Kosin about the height requirements for a fence and Mr. Kosin provided a description of the requirements.

Member Buettner asked about the geographic location of the berm and Mr. Hannigan testified that it was at the boarder of the Village.

Chairman Wolfgram asked a question about the nature of the lots on the map provided and Mr. Hannigan testified that some are individual lots and some are common areas.

Mr. Hannigan provided further testimony on standards for variations set forth in the Village Code.

Chairman Wolfgram closed the Public Hearing.

Public Meeting

Chairman Wolfgram opened the Public Meeting.

Findings of Fact:

Member Root moved, seconded by Member Goss to accept and adopt the findings of fact set forth in the Applicant's application as further supported by the Applicant's testimony. Chairman Wolfgram called for discussion.

Member Buettner suggested a modification on the Motion due to outstanding Army Corps of Engineering Approval.

ZBA Attorney Conway suggested that a condition upon approval of the zoning relief application can be put on the motion to approve the Application as opposed to the pending motion concerning the findings of fact.

Roll Call:

	Y	N
Wolfgram	X	
Buettner	X	
Chambers		
Goss	X	
Hennelly		
Root	X	
Stieper	X	

The Motion carried.

Approval:

Member Stieper moved, seconded by Member Goss to grant the variance as requested by the Applicant. Chairman Wolfgram called for discussion.

Member Stieper asked for clarification on federal and Lake County approvals and the Village Engineer Dan Strahan explained that the only outstanding approval is the Army Corps of Engineers' approval.

Member Goss asked Mr. Strahan whether he anticipates any issues with the Army Corps of Engineers' approval and Mr. Strahan stated that he does not anticipate any issues.

Member Goss inquired whether there is any liability for the Village if it approves the variance but the Army Corps of Engineers does not approve the proposed work.

ZBA Attorney Conway stated that the Village would not have any liability in that instance.

Member Buettner inquired on the effect of the Army Corps of Engineers disapproval if such approval is made a condition on the variance.

ZBA Attorney Conway explained that the Applicant would be required to appear before the ZBA for further zoning relief.

The Members discussed the merits of placing Army Corps of Engineers' approval as a condition on the grant of the variance.

Member Stieper made an amended motion, seconded by Member Buettner to grant the variance as requested by the Applicant conditioned on Army Corps of Engineers' approval. There was no discussion.

Roll Call:

	Y	N
Wolfgram	X	
Buettner	X	
Chambers		
Goss	X	
Hennelly		
Root	X	
Stieper	X	

The Motion carried.

Chairman Wolfgram closed the Public Meeting.

6. 300 Ridge Road, Variance Gross Lot Area, Average Lot Width

Chairman Wolfgram convened the Public Hearing on the Petition concerning 300 Ridge Road, Variance Gross Lot Area, Average Lot Width.

Robert Kosin provided background testimony on the application for zoning relief and on the required legal Notice.

Corey Dunn, on behalf of the Applicant, was placed under Oath. Corey Dunn provided an overview of the Application for zoning relief.

Member Stieper asked Mr. Kosin for some historical background on this property and Mr. Kosin provides some historical background.

The members asked Mr. Kosin questions on the five acres and lot width requirements and the scope of the zoning relief available for nonconforming lots and Mr. Kosin provided some explanation.

The members discussed the history of the five acres requirement.

Member Stieper asked Mr. Dunn on the whereabouts of the property owners. Mr. Dunn explained that they were unavailable to attend the hearing.

Mr. Dunn stated that it is his understanding that the owners have made some efforts to purchase property to achieve conformity with the Village Code. Mr. Dunn stated that he was not aware of any specific neighbor objections.

Mr. Dunn provided drawings of the proposed home to the Members.

Member Buettner asked questions about the number of nonconforming lots concerning the five acres requirement; the number of variances that have been issued in the past and whether this matter has precedential effect.

Member Stieper stated that each case is fact specific and no case has a precedential effect on another.

Chairman Wolfgram asked if any member of the public had any questions for the Applicant. There were none.

Mr. Kosin and Mr. Dunn provided additional information on the property characteristics.

Mr. Dunn testified that all other aspects of the property are in compliance with the Village's zoning regulations. Mr. Dunn further testified to the facts concerning the Village standards for variations.

Chairman Wolfgram closed the Public Hearing.

Public Meeting

Chairman Wolfgram opened the Public Meeting.

Findings of Fact:

Member Stieper moved, seconded by Member Buettner to accept and adopt the findings of fact required under the Village Code for variation relief as supported by the Applicant's testimony. Chairman Wolfgram called for discussion. There was no discussion.

Roll Call:

	Y	N
Wolfgram	X	
Buettner	X	
Chambers		
Goss	X	
Hennelly		
Root	X	
Stieper	X	

The Motion carried.

Approval:

Member Root moved, seconded by Member Stieper to grant the variance as requested by the Applicant. Chairman Wolfgram called for discussion. There was no discussion.

Roll Call:

	Y	N
Wolfgram	X	
Buettner	X	
Chambers		

Goss	X
Hennelly	
Root	X
Stieper	X

The Motion carried.

Chairman Wolfgram closed the Public Meeting.

7. Special Events Discussion

The Members discussed whether the ZBA would be interested in proposing a text amendment to the Village Code concerning special events use of property within the Village.

Chairman Wolfgram suggested that the special events discussion continue at the next ZBA meeting and invited Village Trustee Colleen Konecek to provide any thoughts on the matter at that time.

8. Adjournment

Motion to adjourn by Member Goss, seconded by Member Stieper at 9:08 p.m. On a voice vote, all members voting “aye.” The meeting stands adjourned.

Approved: _____

Dated: _____

President Martin J. McLaughlin
Trustee Colleen Konicek Hannigan
Trustee Fritz Gohl
Trustee Michael Harrington
Trustee Bryan C. Croll
Trustee Michelle Nagy Maison
Trustee Brian D. Cecola



112 Algonquin Road
Barrington Hills, IL 60010
847.551.3000

village@vbhil.gov
www.vbhil.gov

POSTED NOTICE - ZONING BOARD OF APPEALS

The Zoning Board of Appeals, in acting upon variations, special uses, amendments of the zoning ordinance, or appeals from action taken by the Zoning Enforcement Officer, hears all such cases at a public hearing at which neighboring property owners have a right to be heard.

If the subject to the hearing, as stated below, is of concern to you, you will have an opportunity to fully express your opinions whether for or against. For your guidance, a copy of the Zoning Ordinance is available in the Village Hall and online.

If it is inconvenient for you to appear at the hearing, you may file your opinion by letter or email to clerk@vbhil.gov, giving the street and lot number of the property owned by you and for what it is now used. Please state fully what your position is regarding the subject.

You are, by this posting, notified that the subject stated below will be heard at a public hearing at the Village Hall of Barrington Hills, 112 Algonquin Road, Barrington Hills, Illinois 60010-5199.

Date and Time of Hearing: Wednesday, February 17, 2016 at 7:30 pm

Applicant: St. Mark's Episcopal Church

Address: 337 Ridge Road, Barrington Hills, IL 60010

Subject: A special use request for a religious institution including the existing church, rectory, columbarium and playground and to allow for the construction of a three seasons room addition to the rectory within 29 feet of the east lot line.

Chairman Dan Wolfgram
Zoning Board of Appeals
Village of Barrington Hills
Publication Date: January 28, 2015

PUBLIC HEARING
Before the Zoning Board of Appeals,
Village of Barrington Hills,
Re: 337 Ridge Road

Notice is hereby given that a Public Hearing will be held on Wednesday February 17, 2016 at 7:30 p.m. or as soon thereafter as the matter may be heard by the Zoning Board of Appeals of the Village of Barrington Hills in the MacArthur Room of the Village Hall, 112 Algonquin Road, concerning the application of the St. Mark's Episcopal Church for the amendment of their Special Use being a religious institution, subject to the provisions of Section 5-10-7 of the Zoning Ordinance.

The application concerns a special use requested to permit the use of the Subject Property for a religious institution, including the existing church, rectory, columbarium and playground. The existing Church was constructed precedent to the inclusion by the Village of religious institutions and accessory uses as a Special Use in the R-1 district referenced in Section 5-5-3 of the Zoning Ordinance. The columbarium was granted a special use.

The purpose of this special use will be to bring the entire parcel and uses under the Special Use provision of Chapter 10 of the Zoning Ordinance and to allow for the construction of a three seasons room addition to the rectory within 29 feet of the east lot line.

The Church rectory, columbarium and playground are all on the same parcel having the common postal address of 337 Ridge Road and said parcel of approximately 5 acres is more fully described in the application to amend the Special Use as follows, that part of the North half of the Northwest Quarter of the Southwest Quarter of the Northwest Quarter of Section 28, Township 43 North, Range 9 East of the 3rd Principal Meridian in Lake County

[REIN 13-28-1000-008]

A copy of the application to amend the Special Use is available for examination at the office of the Village Clerk at Barrington Hills Village Hall during the customary hours of operation. All interested parties are invited to attend the Public Hearing and will be given an opportunity to be heard.

Daniel Wolfgram,
Chairman

Zoning Board of Appeals
Village of Barrington Hills
Published in Daily Herald
Jan. 28, 2016 (4430986)

CERTIFICATE OF PUBLICATION

Paddock Publications, Inc.

Daily Herald

Corporation organized and existing under and by virtue of the laws of the State of Illinois, DOES HEREBY CERTIFY that it is the publisher of the **DAILY HERALD**. That said **DAILY HERALD** is a secular newspaper and has been circulated daily in the Village(s) of Algonquin, Antioch, Arlington Heights, Aurora, Barrington, Barrington Hills, Lake Barrington, North Barrington, South Barrington, Bartlett, Batavia, Buffalo Grove, Burlington, Campton Hills, Carpentersville, Cary, Deer Park, Des Plaines, South Elgin, East Dundee, Elburn, Elgin, Elk Grove Village, Fox Lake, Fox River Grove, Geneva, Gilberts, Grayslake, Green Oaks, Gurnee, Hainesville, Hampshire, Hanover Park, Hawthorn Woods, Hoffman Estates, Huntley, Inverness, Island Lake, Kildeer, Lake Villa, Lake in the Hills, Lake Zurich, Libertyville, Lincolnshire, Lindenhurst, Long Grove, Mt. Prospect, Mundelein, Palatine, Prospect Heights, Rolling Meadows, Round Lake, Round Lake Beach, Round Lake Heights, Round Lake park, Schaumburg, Sleepy Hollow, St. Charles, Streamwood, Tower Lakes, Vernon Hills, Volo, Wauconda, Wheeling, West Dundee, Wildwood, Sugar Grove, North Aurora

County(ies) of Cook, Kane, Lake, McHenry

and State of Illinois, continuously for more than one year prior to the date of the first publication of the notice hereinafter referred to and is of general circulation throughout said Village(s), County(ies) and State.

I further certify that the **DAILY HERALD** is a newspaper as defined in "an Act to revise the law in relation to notices" as amended in 1992 Illinois Compiled Statutes, Chapter 7150, Act 5, Section 1 and 5. That a notice of which the annexed printed slip is a true copy, was published January 28, 2016 in said **DAILY HERALD**.

IN WITNESS WHEREOF, the undersigned, the said **PADDOCK PUBLICATIONS, Inc.**, has caused this certificate to be signed by, this authorized agent, at Arlington Heights, Illinois.

PADDOCK PUBLICATIONS, INC.
DAILY HERALD NEWSPAPERS

BY *Laulla Baltz*
Authorized Agent

Control # 4430986



Village of Barrington Hills

5-10-7: SPECIAL USES

(A) Purpose: The development and execution of a zoning ordinance is based upon the division of the Village into districts, within which districts the use of land and buildings and the bulk and location of buildings and structures in relation to the land are substantially uniform. It is recognized, however, that there are special uses which, because of their unique characteristics, cannot be properly classified in any particular district or districts without consideration, in each case, of the impact of those uses upon neighboring land and of the public or private need for the particular use at the particular location. Such special uses fall into two (2) categories:

1. Uses publicly operated or traditionally affected with a public interest.
2. Uses entirely private in character but of such an unusual nature that their operation may give rise to unique problems with respect to their impact upon neighboring property or public facilities.

(B) Initiation of Special Use: An application for a special use may be made by the owner of the subject property, or by another person having an interest therein with the written concurrence of the owner thereof, to use said property for one or more of the special uses provided for in this Zoning Title in the zoning district in which the land is situated.

(C) Application for Special Use: An application for a special use shall be filed in writing with the Enforcing Officer. The application shall contain such information as the Zoning Board of Appeals may from time to time, by rule, require. Notice of the time and place of such public hearing shall be published at least once, not less than fifteen (15) days nor more than thirty (30) days before the hearing in a newspaper of general circulation in the Village. The published notice may be supplemented by such additional form of notice as the Board, by rule, may require.

(D) Authorization: For each application for a special use the Zoning Board of Appeals shall report to the Board of Trustees of the Village its findings and recommendations, including the stipulations of additional conditions and guarantees that such conditions will be complied with when they are deemed necessary for the protection of the public interest.

The Board of Trustees may grant or deny any application for a special use; provided, however, that in the event of written protest against any proposed special use, signed and acknowledged by the owners of twenty percent (20%) of the property adjacent to the property proposed for a special use, and filed with the Village Clerk, such special use shall not be granted except by the favorable vote of two-thirds (2/3) of all the members of the Board of Trustees.

(E) Standards: No special use shall be recommended by the Zoning Board of Appeals unless said Board shall find:

1. That the establishment, maintenance or operation of the special use will not be detrimental to or endanger the public health, safety, morals, comfort or general welfare.

Village of Barrington Hills

5-10-7: SPECIAL USES

2. That the special use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminish and impair property values within the neighborhood.

3. That the establishment of the special use will not impede the normal and orderly development and improvement of surrounding property for uses permitted in the district.

4. That adequate utilities, access roads, drainage and/or other necessary facilities have been or are being provided.

5. That adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets and roads.

6. That the special use shall in all other respects conform to the applicable regulations of the district in which it is located, except as such regulations may in each instance be modified by the board of trustees pursuant to the recommendation of the zoning board of appeals.

(F) Conditions And Guaranties: Prior to the granting of any special use, the zoning board of appeals may recommend, and the board of trustees shall stipulate, such conditions and restrictions upon the establishment, location, construction, maintenance and operation of the special use as deemed necessary for the protection of the public interest and to secure compliance with the standards and requirements specified in subsection (E) of this section. In all cases in which special uses are granted, the board of trustees shall require such evidence and guaranties as it may deem necessary as proof that the conditions stipulated in connection therewith are being, and will be, complied with.

(G) Effect Of Denial Of A Special Use: No application for a special use which has been denied wholly or in part by the board of trustees shall be resubmitted for a period of one year from the date of said order of denial, except on the grounds of new evidence or proof of changed conditions found to be valid by the zoning board of appeals and the board of trustees.

(H) Revocation: In any case where a special use has not been established within six (6) months after the date of granting thereof, then without further action by the zoning board of appeals or the board of trustees, the special use authorization shall be null and void. The zoning board of appeals may, upon application filed within said six (6) months, and for good cause, extend said time an additional six (6) months.

(I) Special Uses On Historical Sites: An applicant may request as a unique historical use any permitted and/or special use allowed in any zoning district to be allowed in any other zoning district, subject to compliance with the following conditions:

1. Proof that the subject property or the improvements thereon are of historic value or significance and that preservation of the same will be enhanced, maintained or assisted by permitting the unique use as proposed.

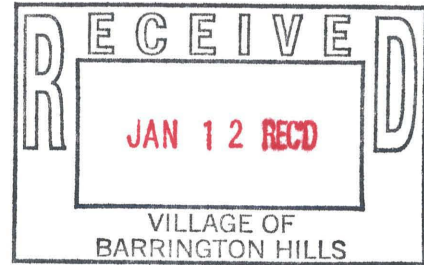
Village of Barrington Hills

5-10-7: SPECIAL USES

2. Proof that permitting the unique use will be of some affirmative benefit, from a land use or preservation standpoint, to the subject property, the surrounding properties and neighborhood, and the village.
3. The application shall have the burden of presenting clear and convincing proof that the unique use is justified and proper.



January 12, 2017



Dear Members of the Zoning Board,

Thank you for your time in taking into consideration our appeal for an amendment to the Special Use of the rectory at St. Mark's Church located at 337 Ridge Rd.

Enclosed are the requested materials:

1. Special Use Application Worksheet
2. Current Plat of Survey
3. Names of adjacent property owners
4. Letter that will be sent to the property owners
5. Check for \$200

Again, your time and input is appreciated. The screened in porch that we would like to add to the rectory will not change the current use of the home.

Regards,

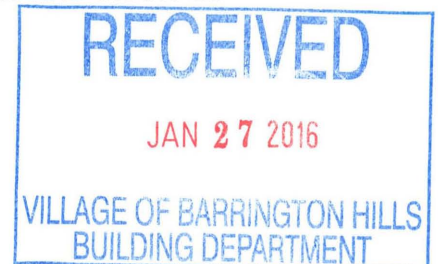
Gina Erdman
Director of Operations
St. Mark's Episcopal Church

SPECIAL USE APPLICATION

1. THE ESTABLISHMENT, MAINTENANCE OR OPERATION OF THE SPECIAL USE WILL NOT BE DETRIMENTAL TO OR ENDANGER THE PUBLIC HEALTH, SAFETY, MORALS, COMFORT OR GENERAL WELFARE; BECAUSE IT WILL NOT ALTER THE USE OF THE HOME.
2. THE SPECIAL USE WILL NOT BE INJURIOUS TO THE USE AND ENJOYMENT OF OTHER PROPERTY IN THE IMMEDIATE VICINITY FOR THE PURPOSES ALREADY PERMITTED, NOR SUBSTANTIALLY DIMINISH AND IMPAIR PROPERTY VALUES WITHIN THE NEIGHBORHOOD AND DESCRIBED SCREENED PORCH IS SIMILAR TO OTHERS IN THE NEIGHBORHOOD, IS IN KEEPING WITH THE CONSERVATIVE SIZE OF THE HOME AND WILL NOT BE IN THE VIEW OF ANY OTHER NEIGHBORING HOMES.
3. THE ESTABLISHMENT OF THE SPECIAL USE WILL NOT IMPEDE THE NORMAL AND ORDERLY DEVELOPMENT AND IMPROVEMENT OF SURROUNDING PROPERTY FOR USES PERMITTED IN THE DISTRICT; AND WILL NOT BE AN EYESORE BECAUSE IT DOESN'T DIFFER ARCHITECTURALLY FROM OTHER HOMES IN THE NEIGHBORHOOD AND IMPROVES THE LOOK FOR THE HOME.
4. ADEQUATE UTILITIES, ACCESS ROADS, DRAINAGE AND /OR OTHER NECESSARY FACILITIES HAVE BEEN OR ARE BEING PROVIDED; AND WILL NOT AFFECT ANY EXISTING UTILITIES. ALL OF THE BUILDING CODES AND REQUIREMENTS WILL BE ADDRESSED. NO CHANGE WILL BE NECESSARY TO THE SURROUNDING ROADS, UTILITIES, DRAINAGE OR OTHER FACILITIES.
5. ADEQUATE MEASURES HAVE BEEN OR WILL BE TAKEN TO PROVIDE INGRESS AND EGRES SO DESIGNED AS TO MINIMIZE TRAFFIC CONGESTION IN THE PUBLIC STREETS AND ROADS; AND WILL IMPACT PROPERTY ONLY. THE SPECIAL USE SHALL IN ALL OTHER RESPECTS CONFORM TO THE APPLICABLE REGULATIONS OF THE DISTRICT IN WHICH IT IS LOCATED, EXCEPT AS SUCH REGULATIONS MAY IN EACH INSTANCE BE MODIFIED BY THE BOARD OF TRUSTEES PURSUANT TO THE RECOMMENDATION OF THE ZONING BOARD OF APPEALS. THE ONLY MODIFIED CONDITION IS SETBACK AND WE ARE KEEPING THE EXISTING DRIVEWAY AS IT HAS BEEN FOR THE LAST 50 YEARS THE HOME HAS BEEN IN EXISTENCE WITHOUT ANY ISSUES.

THEREFORE, ST. MARK'S REQUESTS THE ZBA TO AMEND THE SPECIAL USE AND GRANT US PERMISSION TO BUILD THE SCREEN PORCH

*Gina Edman
Director of Operations
St. Mark's Church*



The undersigned states that she has read the foregoing application signed by her and that all information contained within this application is true and accurate to the best of her knowledge.

This application for an amendment of a Special Use for St. Mark's Episcopal Church is respectfully submitted to the Barrington Hills Zoning Board of Appeals by

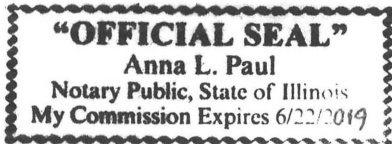
Gina Erdman date 1/27/16

Gina Erdman
Director of Operations
St. Mark's Episcopal Church
337 Ridge Road
Barrington Hills, Illinois

Subscribed and Sworn

Notarized by:

Anna L. Paul 1/27/16





January 15, 2016

This is to serve notice that Gina Erdman has been granted authority to speak on behalf of St. Mark's Episcopal Church at 337 Ridge Rd, Barrington Hills, IL to appeal for the variance to amend the Special Use for the screened in porch.

A handwritten signature in blue ink, appearing to read "David Gibbons".

Rev. David A Gibbons
Rector

LEGAL DESCRIPTION

The North half of the Northwest Quarter of the Southwest Quarter of the Northwest Quarter of Section 28, Township 43 North, Range 9 East of the Third Principal Meridian in Lake County.

337 Ridge Road

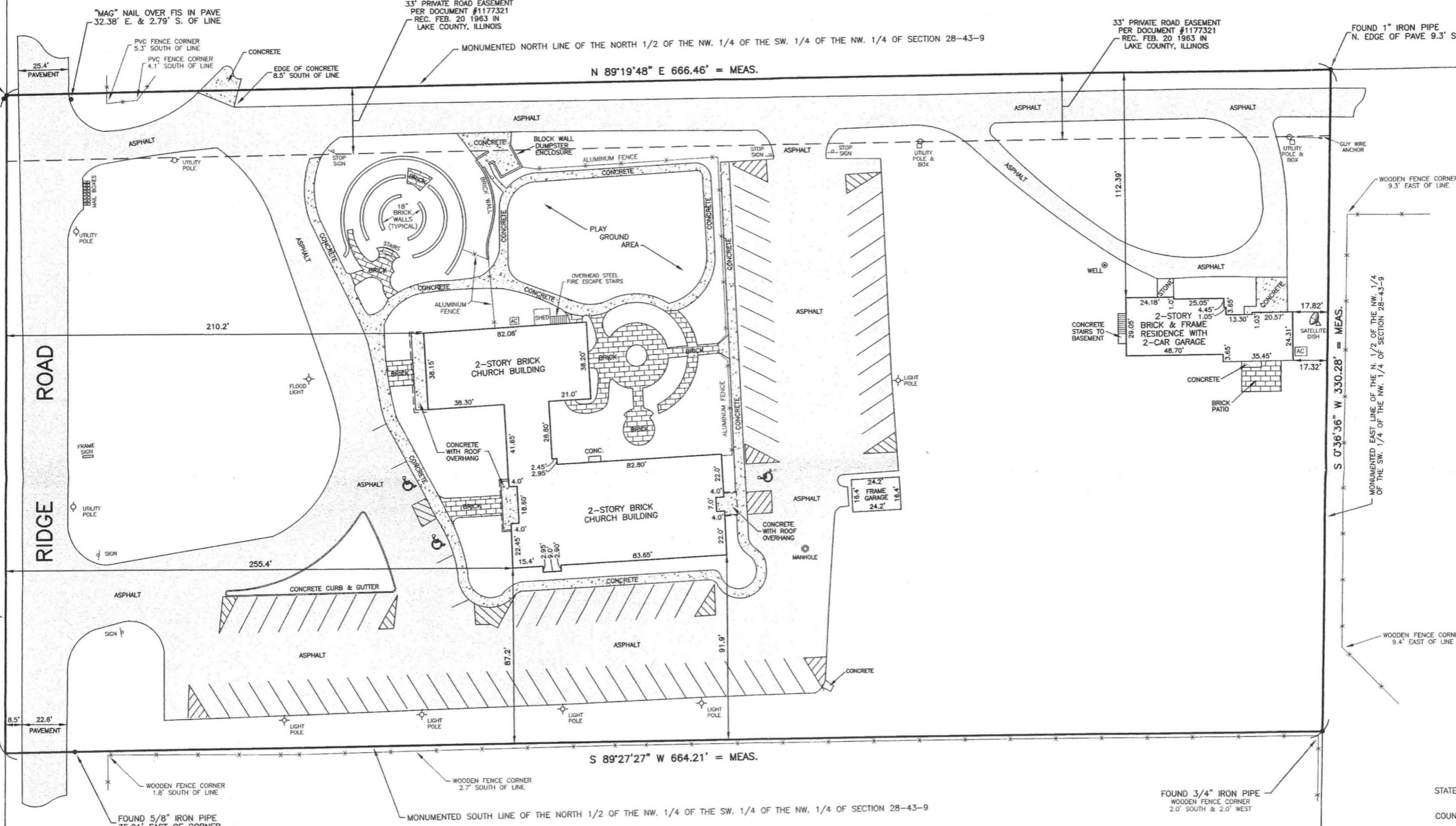
13-28-100-008

PLAT OF SURVEY

LEGAL DESCRIPTION:
 THE NORTH HALF OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 28, TOWNSHIP 43 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN LAKE COUNTY, ILLINOIS.



0 30 60
 GRAPHIC SCALE : 1" = 30'
 BEARING SYSTEM : STATE PLANE



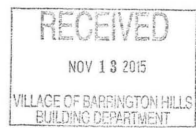
FOUND 3/4" IRON PIPE
 W. EDGE OF PAVE 6' EAST
 FOUND 3/4" IRON PIPE
 1.80' S. & 1.43' W.

FOUND 3/4" IRON PIPE
 100.63' SOUTH

- ABBREVIATIONS
- = R. DISTANCE ON RECORDED PLAT OF SUBDIVISION
 - = REC. DISTANCE ON RECORDED PLAT OF SUBDIVISION
 - = M. MEASURED OR CALCULATED DISTANCE
 - = MEAS. MEASURED OR CALCULATED DISTANCE
 - = RAD. RADIUS
 - = ARC. ARC LENGTH
 - = CH. CHORD LENGTH
 - = CONC. CONCRETE
 - = P.O.B. POINT OF BEGINNING
 - = P.O.C. POINT OF COMMENCEMENT

FOUND 3/4" IRON PIPE
 WOODEN FENCE CORNER
 2.0' SOUTH & 2.0' WEST

STATE OF ILLINOIS
 S.S.
 COUNTY OF McHENRY



WE, HERITAGE LAND CONSULTANTS, LLC, DO HEREBY CERTIFY THAT WE HAVE SURVEYED THE PROPERTY DESCRIBED HEREON AND THAT THE PLAT DRAWN IS A REPRESENTATION OF SAID SURVEY. ALL DIMENSIONS ARE GIVEN IN FEET AND DECIMALS THEREOF.

GIVEN UNDER MY HAND AND SEAL AT McHENRY, ILLINOIS
 THIS 22nd. DAY OF OCTOBER 2015
 Mark T. Bernhardt
 MARK T. BERNHARDT
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3028
 LICENSE RENEWAL DATE : 11-30-2016

INDICATES IRON STAKE
 (UNLESS NOTED OTHERWISE)

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS OF PRACTICE APPLICABLE TO BOUNDARY SURVEYS.

LEGAL DERIVED FROM DOCUMENT #1177321 RECORDED FEB. 20, 1963 IN LAKE C. IL. BOUNDARY SURVEYS ARE BASED UPON THE RECORDED SUBDIVISION PLAT IN CASES OF REGULAR SUBDIVISION. BOUNDARY SURVEYS OF PROPERTIES NOT A PART OF A REGULAR SUBDIVISION ARE BASED UPON TITLE INFORMATION PROVIDED BY THE PARTY REQUESTING THE SURVEY. BOUNDARY SURVEY PLATS REFLECT INFORMATION DISCOVERED BY THE SURVEYOR IN THE NORMAL COURSE OF WORK AND DOES NOT NECESSARILY SHOW EVERY POSSIBLE CONDITION AFFECTING THE PROPERTY, EASEMENTS, SERVITUDE, BUILDING ORDINANCES, ZONING, AND OTHER ENCUMBRANCE THAT MAY EXIST. CONSULT A TITLE ATTORNEY IF YOU WISH TO DISCOVER ALL THE LEGAL ENCUMBRANCES THAT MAY BE ATTACHED TO ANY PROPERTY.

REFER TO DEED OR GUARANTEE POLICY AND LOCAL ORDINANCES FOR BUILDING LINES AND EASEMENTS NOT SHOWN HEREON. COMPARE YOUR DESCRIPTION AND POINTS WITH THIS PLAT AND AT ONCE REPORT ANY APPARENT DIFFERENCE TO THE SURVEYOR.

BUILDING DIMENSIONS SHALL NOT BE USED TO DETERMINE LOT LINE LOCATIONS.

HLC SURVEYING IS A SERIES OF HERITAGE LAND CONSULTANTS, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY.

ILLINOIS PROFESSIONAL LAND SURVEY AND PROFESSIONAL ENGINEERING DESIGN FIRM CORPORATION LICENSE NO. 184-004955 EXPIRES : 04/30/2017

PLAT OF SURVEY	
SCALE : 1" = 30'	REVISIONS
DATE : 10-22-2015	
DATE OF FIELD WORK: 10-19-2015	
DISK: 151019	FILE NO. 15233SUR
DISK: 15233	PMC NO. 15233P
PREPARED FOR: ST. MARKS EPISCOPAL CHURCH	PROPERTY ADDRESS: 337 RIDGE ROAD BARRINGTON HILLS, ILLINOIS
DRAWN BY: TVA	CHECKED BY: MTB
	JOB NO. 2015-233 SUR





Robert Kosin <rkosin@barringtonhills-il.gov>

State License

Building Dept <building-dept@barringtonhills-il.gov>
To: Robert Kosin <rkosin@barringtonhills-il.gov>

Mon, Mar 21, 2016 at 7:49 AM

3/21/2016 **Illinois Division of Professional Regulation** 7:43:48 AM

SEARCH FOR LICENSEE BY PROFESSION:
Land Surveyor, Professional, Licensed
THERE ARE 1 RECORDS WHOSE NAME CONTAINS: **Bernhardt**

Licensee's Name	DBA/AKA	License Number	License Status	City, State	Original Date	Current Exprtn	Ever Disciplined?
MARK T BERNHARDT		035003028	ACTIVE	HARVARD, IL	01/12/1993	11/30/2016	N

Building Department
Village of Barrington Hills
Direct: [847-551-3003](tel:847-551-3003)

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[Quoted text hidden]

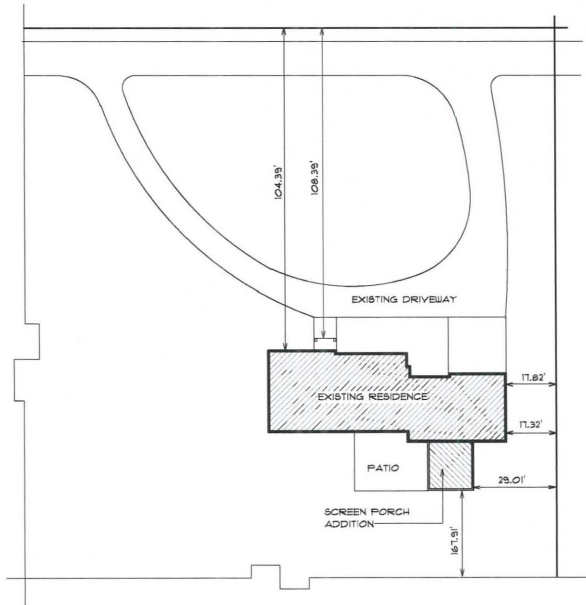
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To ensure compliance with the Open Meetings Act, elected or appointed members of the public body may reply to this message, but they should not forward it or send a copy of the reply to other members of the public body.

To ensure compliance with the Open Meetings Act, elected or appointed members of the public body may reply to this message, but they should not forward it or send a copy of the reply to other members of the public body.

SCREEN PORCH FOR:

ST. MARK'S RECTORY

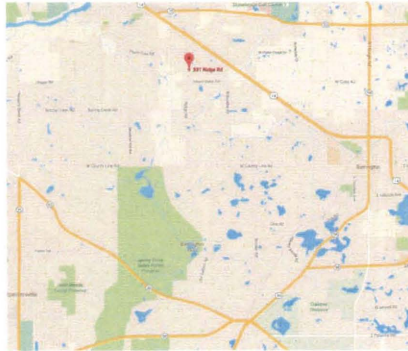


SITE PLAN SCALE 1"=20'-0"



AERIAL IMAGE

NO SCALE



LOCATION MAP

NO SCALE



SHEET INDEX	
SHEET NUMBER	SHEET DESCRIPTION
CS	INDEX / AERIAL & LOCATION MAP
A1	SCREEN PORCH FLOOR PLANS
A2	SCREEN PORCH ELEVATIONS

VILLAGE CODES	
1991 BOCA National Building Code	2008 National Electric Code
1978 CABO One & Two Family Dwelling Code	2004 Illinois State Planting Code
1978 BOCA Basic Mechanical Code	2012 International Energy Conservation Code
1993 BOCA National Fire Prevention Code	

SIGNED:

STRUCTURAL ENGINEER LICENSE NO. 081-022641
 I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE THEY CONFORM TO THE VILLAGE OF BARRINGTON HILLS ZONING AND BUILDING CODES.

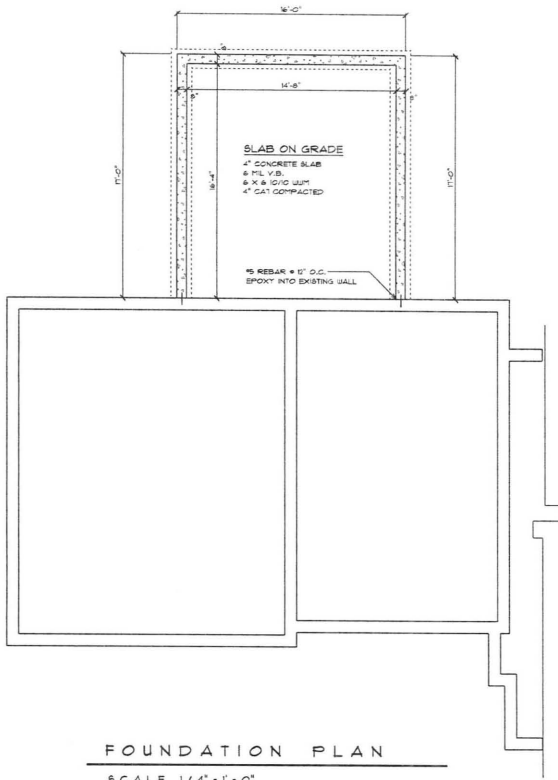
JOSEPH A. MEYER
 STRUCTURAL & PROFESSIONAL ENGINEER
 135 PARK AVE. BARRINGTON, IL 60010 847-382-0200

SCREEN PORCH FOR:
ST. MARK'S RECTORY
 531 RIDGE ROAD BARRINGTON HILLS ILLINOIS 60010

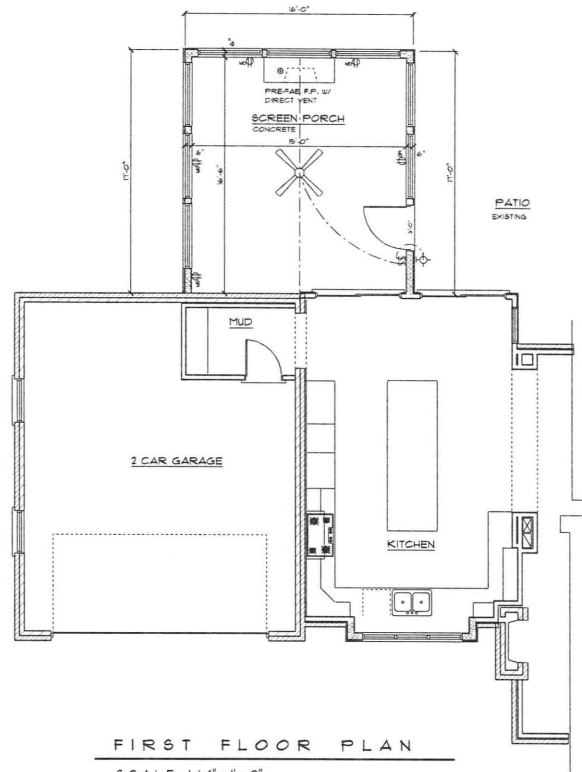
DATE
 NOV 10, 2015
 REVISION

JOB #
 SHEET #
CS

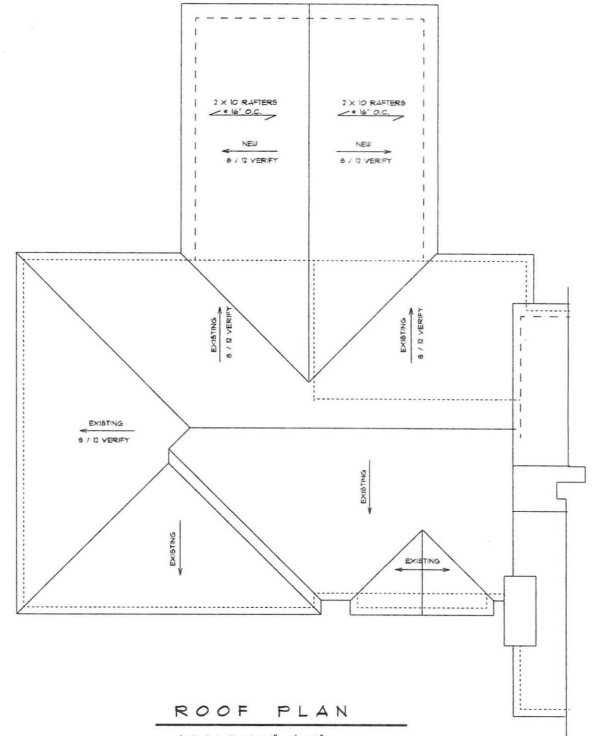
COPYRIGHT



FOUNDATION PLAN
 SCALE 1/4" = 1'-0"



FIRST FLOOR PLAN
 SCALE 1/4" = 1'-0"



ROOF PLAN
 SCALE 1/4" = 1'-0"

JOSEPH A. MEYER
 STRUCTURAL & PROFESSIONAL ENGINEER
 135 PARK AVE. BARRINGTON, IL. 60010 847-389-0100

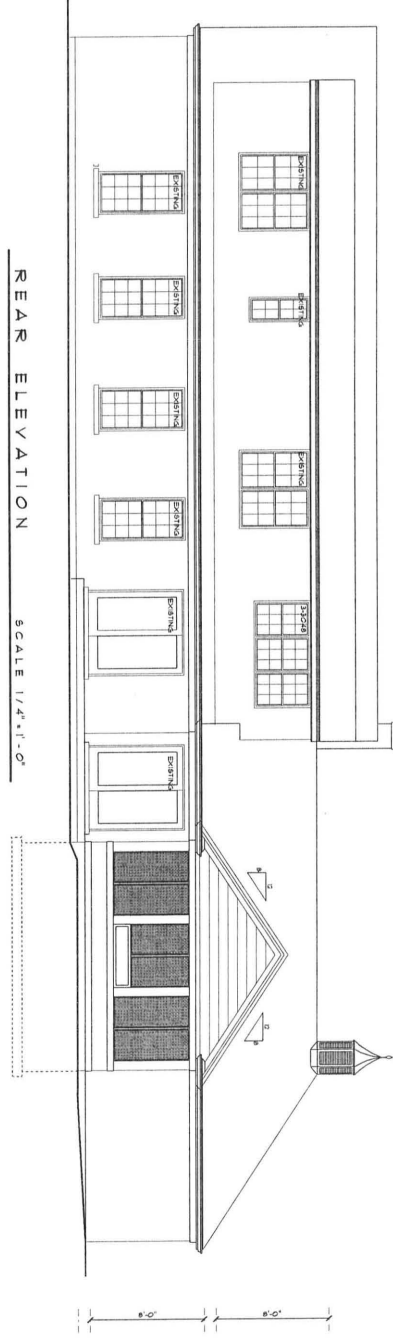
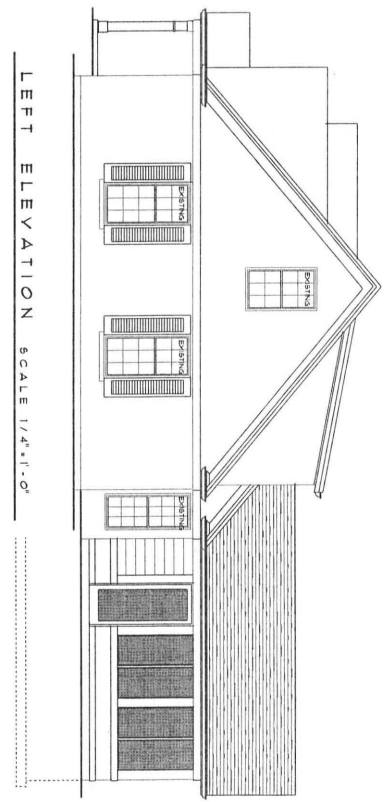
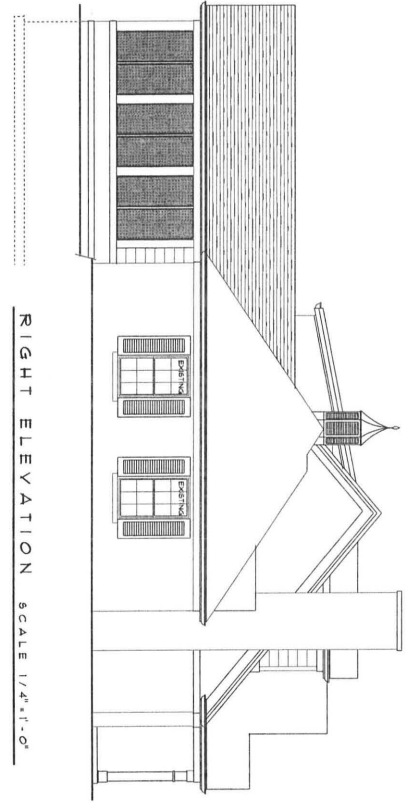
SCREEN PORCH FOR:
ST. MARK'S RECTORY
 331 RIDGE ROAD BARRINGTON HILLS ILLINOIS 60010

DATE
 NOV 10, 2015

REVISION

JOB #

SHEET #
A1



REAR ELEVATION

SCALE 1/4"=1'-0"

RIGHT ELEVATION SCALE 1/4"=1'-0"

LEFT ELEVATION SCALE 1/4"=1'-0"

8'-0" 8'-0"



Robert Kosin <rkosin@barringtonhills-il.gov>

State License

Building Dept <building-dept@barringtonhills-il.gov>
To: Robert Kosin <rkosin@barringtonhills-il.gov>

Mon, Mar 21, 2016 at 7:49 AM

3/21/2016 **Illinois Division of Professional Regulation** 7:48:15 AM

SEARCH FOR LICENSEE BY PROFESSION:
Engineer Structural, Licensed
THERE ARE 2 RECORDS WHOSE NAME CONTAINS: Meyer

Licensee's Name	DBA/AKA	License Number	License Status	City, State	Original Date	Current Exprtn	Ever Disciplined?
Joseph A Meyer		081002641	ACTIVE	Barrington, IL	06/20/1962	11/30/2016	N

Building Department
Village of Barrington Hills
Direct: [847-551-3003](tel:847-551-3003)

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January 26, 2017

Dear Gary & Donna,

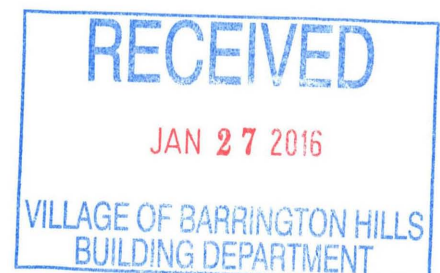
St. Mark's is currently renovating the existing rectory to make much needed improvements for Father David Gibbons and his family. We have filed with the Zoning Board at the Village of Barrington Hills to amend the Special Use to add a modest screened in porch for the rector and his family to escape the mosquitoes.

The porch would change the existing footprint of the home. It would be located 29.01 feet from the East lot line, and built on the South side of the home behind part of the existing garage and existing kitchen area. The structure will be in keeping with the current modest Cape Cod style of the home. It will have white painted siding to match the existing siding on the home, be a single story addition, and used for 3 seasons. It will be built on a slab, at grade and will be 17'x16'. The road and driveway would remain as it has existed since the house was built. It doesn't appear to impinge on anyone's vista since the east lot line has a fence and bushes. The Zoning Board of Appeals (ZBA) is scheduled to meet on February 17, 2016 at the Barrington Hills Village Hall. A plan of the porch is included in the letter in order to provide a visual of its modest size and discreet location. Please feel free to give me a call if I can answer any questions for you at 847-381-0596.

Thank you in advance for your consideration to allow the ZBA to grant us this amendment.

Gina Erdman


Director of Operations
St. Mark's Episcopal Church



Legend

-  Project Location
-  250 ft Buffer
-  Parcels within 250'
-  Parcel Boundaries

20-29-200-010
LAURAS ARK LLC
338 RIDGE RD
BARRINGTON, IL 60102

1328100006
DAVID R & MARY P RESCH
355 RIDGE RD
BARRINGTON, IL 60010

1328100007
MARK A & DAWN M DETELICH
351 RIDGE RD
BARRINGTON, IL 60010

20-29-200-011
NORTH STAR TRICO TR 12 12507
338 RIDGE RD
BARRINGTON, IL 60010

1328100008
ST. MARKS EPISCOPAL CHURCH
337 RIDGE RD
BARRINGTON, IL 60010

1328100010
TIERNI L MICEK, TRUSTEE
344 RIDGE RD
BARRINGTON, IL 60010

1328100009
GARY & DONNA SAULKA
335 RIDGE RD
BARRINGTON, IL 60010

20-29-200-022
WALTER T SARAH A STELZEL
330 RIDGE RD
BARRINGTON HILLS, IL

Ridge Road

Merri-Oaks Road



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



1 inch = 300
Feet

Public Notification Map

337 Ridge Road
Barrington Hills, IL

7014 3490 0000 1732 3972

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Domestic Mail Only

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BARRINGTON, IL 60010

OFFICIAL USE

Postage	\$3.45		0011
		\$2.80	04
Certified Fee		\$0.00	
Return Receipt Fee (Endorsement Required)		\$0.00	
Restricted Delivery Fee (Endorsement Required)		\$0.00	
	\$0.49		
Total Postage & Fees	\$		01/26/2016
	\$6.74		

Postmark Here

Sent To Mrs Mrs Stalzel
 Street & Apt. No., or PO Box No. 330 Ridge Rd
 City, State, ZIP+4 Barr Hills, IL 60010

PS Form 3800, July 2014 See Reverse for Instructions

7014 3490 0000 1732 4009

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		\$2.80	04
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Return Receipt Fee (Endorsement Required)		\$0.00	
Restricted Delivery Fee (Endorsement Required)		\$0.00	
	\$0.49		
Total Postage & Fees	\$		01/26/2016
	\$6.74		

Postmark Here

Sent To Mr & Mrs G. Saulka
 Street & Apt. No., or PO Box No. 335 Ridge Rd
 City, State, ZIP+4 Barr Hills IL 60010

PS Form 3800, July 2014 See Reverse for Instructions

7014 3490 0000 1732 3965

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		\$2.80	04
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Restricted Delivery Fee (Endorsement Required)		\$0.00	
	\$0.49		
Total Postage & Fees	\$		01/26/2016
	\$6.74		

Postmark Here

Sent To North Star Tr.
 Street & Apt. No., or PO Box No. 338 Ridge Rd
 City, State, ZIP+4 Barrington Hills, IL 60010

PS Form 3800, July 2014 See Reverse for Instructions

7014 3490 0000 1732 4023

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		\$2.80	04
Certified Fee		\$0.00	
Return Receipt Fee (Endorsement Required)		\$0.00	
Restricted Delivery Fee (Endorsement Required)		\$0.00	
	\$0.49		
Total Postage & Fees	\$		01/26/2016
	\$6.74		

Postmark Here

Sent To Laura's Ark LLC
 Street & Apt. No., or PO Box No. 339 Ridge Rd
 City, State, ZIP+4 Barr Hills IL 60010

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7014 3490 0000 1732 3989

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Postage	\$3.45		0011
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Certified Fee		\$0.00	
Return Receipt Fee (Endorsement Required)		\$0.00	
Restricted Delivery Fee (Endorsement Required)		\$0.00	
	\$0.49		
Total Postage & Fees	\$		01/26/2016
	\$6.74		

Postmark Here

Sent To Terri Nicole Trushen
 Street & Apt. No., or PO Box No. 344 Ridge Rd
 City, State, ZIP+4 Barr Hills IL 60010

PS Form 3800, July 2014 See Reverse for Instructions

7014 3490 0000 1732 3996

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BARRINGTON, IL 60010

OFFICIAL USE

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Restricted Delivery Fee (Endorsement Required)		\$0.00	
	\$0.49		
Total Postage & Fees	\$		01/26/2016
	\$6.74		

Postmark Here

Sent To Mr & Mrs M. Detelich
 Street & Apt. No., or PO Box No. 351 Ridge Rd
 City, State, ZIP+4 Barr Hills IL 60010

PS Form 3800, July 2014 See Reverse for Instructions

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CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

BARRINGTON, IL 60010

OFFICIAL USE

Postage	\$3.45
Certified Fee	\$2.80
Return Receipt Fee (Endorsement Required)	\$0.00
Restricted Delivery Fee (Endorsement Required)	\$0.00
	\$0.00
	\$0.49
Total Postage & Fees	\$6.74

0011
04

Postmark
Here

01/26/2016

Sent To: Mr. & Mrs D. Resch
Street & Apt. No., or PO Box No. 355 Ridge Rd
City, State, ZIP+4 Barrington Hills IL 60010

PS Form 3800, July 2014 See Reverse for Instructions

7014 3490 0000 1732 4016

RECEIVED
JAN 27 2016
VILLAGE OF BARRINGTON HILLS
BUILDING DEPARTMENT

VILLAGE OF BARRINGTON HILLS

NOTICE OF A PUBLIC HEARING

will be held at 7:30 o'clock p.m. on 02-17-2016
at Barrington Hills Village Hall

112 Algonquin Rd

Regarding a SPECIAL USE for this property

13-28-1000-008

By St. Mark's Episcopal Church before the
Zoning Board of Appeals (VBH Ord. 5-13-7)

Daniel Wolfgram
Chairman, ZBA



MEMORANDUM

To: ZBA Members
Robert Kosin, Village Administrator

From: Dan Strahan, P.E., CFM
Gewalt Hamilton Associates

Date: March 12, 2016

Re: St. Mark's Rectory
Stormwater Review

The Village has requested that our office summarize the stormwater management and septic system details associated with the proposed addition to the rectory at St. Mark's Church, 337 Ridge Road. Below is an overview of both topics with associated exhibits attached to this memo.

Stormwater Management Overview

The proposed sunroom addition and patio project will result in a small increase (approximately 480 square feet) in the amount of impervious area on the site. The project is required to meet the provisions of the Lake County Watershed Development Ordinance (WDO). While the site currently has a high percentage of impervious surface relative to surrounding properties, detention requirements are based on "New" impervious surface area, defined by the ordinance as impervious surface area created after the original effective date of the WDO (10/18/92). A summary of the new impervious surface calculation based on the conceptual site plan is provided below:

Proposed Total Impervious Area	2.02 Acres
Pre-1993 Impervious Area	1.87 Acres
"New" Impervious Area	0.15 Acres*

*Approximately 0.01 acres new impervious from pending permit application.

The WDO establishes development thresholds beyond which detention is required. Below is a review of the WDO detention thresholds listed in Article 300.06:

- Threshold #1- More than one (1) acre of new impervious surface area; (*NOT MET - The proposed addition will result in less than one acre of new impervious area*).
- Threshold #2- More than three (3) acres of hydrologically disturbed area, unless the total new impervious surface area is less than one half of one (0.5) acre; (*NOT MET - The hydrologically disturbed area is less than three acres and the new impervious surface area is less than 0.5 acres*).
- Threshold #3- An impervious surface area ratio of 50 percent or greater, unless the total new impervious surface area is less than one half of one (0.5) acre. (*NOT MET - The impervious surface area ratio is less than 50% of the site and the new impervious area is less than 0.5 acres*).

While the proposed improvements do not exceed the detention requirements, the WDO requires that "concentrated stormwater discharges must be conveyed into a maintainable outlet with adequate downstream capacity (as defined in Appendix A: Definitions) and will not result in increased flood and drainage hazard" (Section 502.03). Due to the increase in impervious area, the sunroom addition is expected to result in a small increase in the stormwater discharge to the onsite swale that runs into a shared depressional area to the south. This depressional area has no known outlet and has been

demonstrated to result in flooding of the accessory structure at 335 Ridge Road as well as yard flooding at 315 Ridge Road, 343 Ridge Road, and 570 Merri Oaks Road. As a result, we would recommend that as a condition to approval of the permit, the applicant demonstrate that adequate measures have been provided to mitigate the impacts of the increase in impervious area such that the proposed release rate is equal to or less than the existing release rate. This could take the form of a stormwater quality basin designed to release runoff at a controlled rate, store excess runoff, and infiltrate the "first flush" volume of a storm event.

Septic System






As discussed at the previous ZBA meeting, the depressional area described above has also been the subject of water quality concerns, specifically related to septic systems within the drainage area. Septic systems can fail in one of two ways. First, if the system itself becomes clogged, sewage can back up into the house. Secondly, a system can fail due to the soils in which it is located either being too permeable (which can result in contamination of groundwater) or not permeable enough (in which case effluent can erupt at the ground surface. In response to previous concerns regarding water quality in the shared depressional area described above, our office had prepared (and has now updated) the attached exhibit graphically depicting the location of septic systems within or adjacent to the drainage area being referenced. Some properties do not have septic systems indicated as the Village only has records for septic systems that have been the subject of previous permit applications.

In 2011 our office received complaints in August and again in early December regarding concerns that a failing septic system on the property at St. Mark's church was resulting in septic effluent contaminating the pond at 335 Ridge, which floods and inundates the rear yard of 315 Ridge as well as other properties. Our office did not observe a surface failure on either occasion, though it was apparent that maintenance had recently occurred. We later learned that this maintenance included replacement of drop boxes and piping within the system as well as pumping of the tank and trenches.

It is noted that the septic system at 335 Ridge was relocated to its current location in 2014 after previous inquiries with the property owner (St. Mark's Church at that time) found that the existing septic system had been located within the area that had flooded during a 2013 storm event.

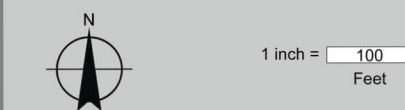
Since the February meeting, the applicant has submitted a permit application to replace the existing septic system serving the rectory as it has reached the end of its useful life. The drawings are currently under review and may require revision if stormwater measures discussed above are required in this area. The design engineer has been notified that the existing septic system is likely more extensive than what is shown based on photo documentation made in 2011 after the completion of septic maintenance on the property.

Legend

-  Overland Flow Elevation
-  Drainage Divide
-  1 ft. Elevation Contours
-  Church Property
-  Parcel Boundaries



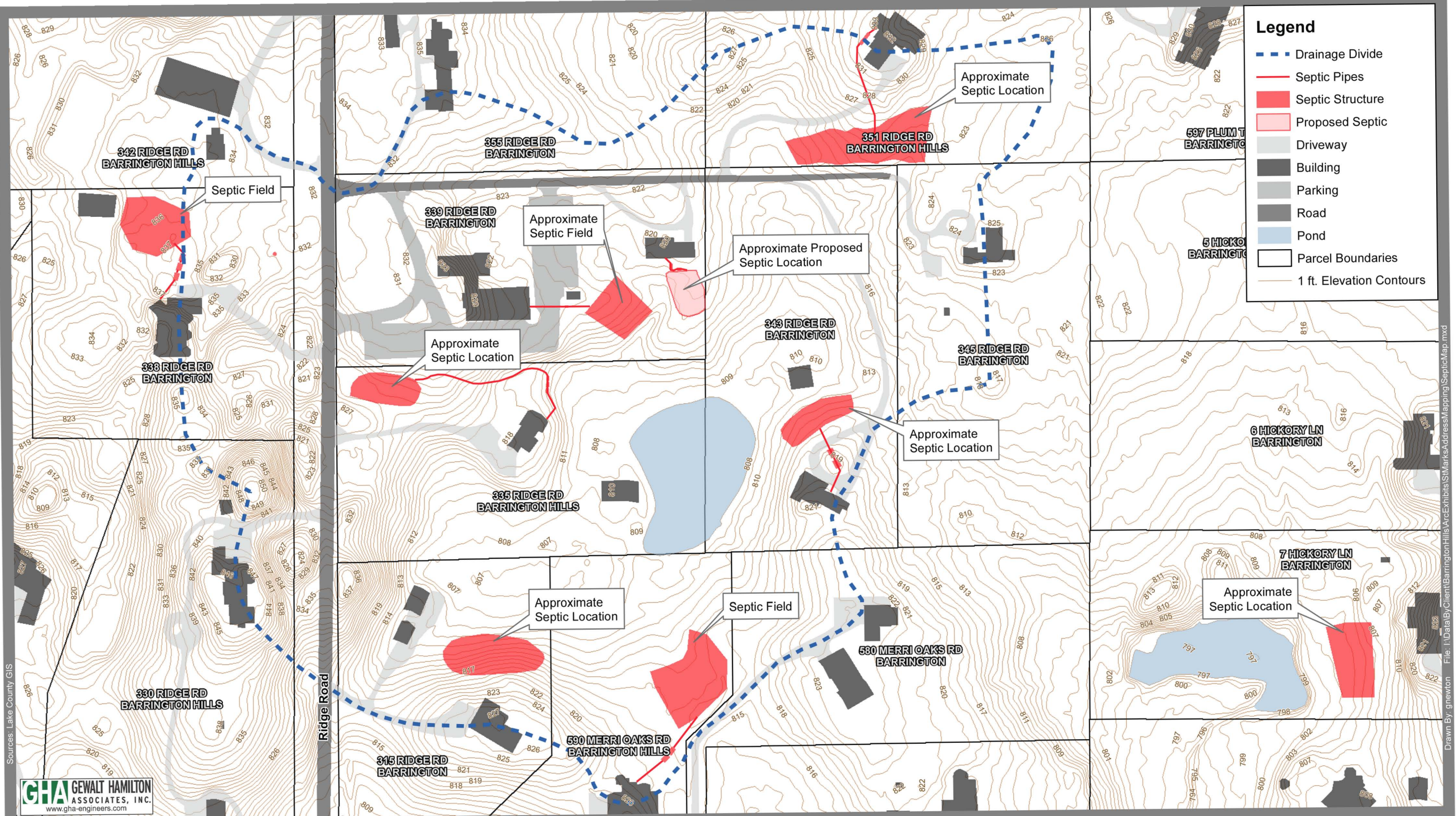
GHA GEWALT HAMILTON ASSOCIATES, INC.
www.gha-engineers.com



Existing Drainage Exhibit
Ridge Rd & Merri Oaks Rd
Barrington Hills, IL

Sources: Lake County GIS

Drawn By: gnewton
File: I:\Data\ByClient\BarringtonHills\ArcExhibits\StMarksAddressMapping\DrainageMap22.34.mxd



- Legend**
- - - Drainage Divide
 - Septic Pipes
 - Septic Structure
 - Proposed Septic
 - Driveway
 - Building
 - Parking
 - Road
 - Pond
 - Parcel Boundaries
 - 1 ft. Elevation Contours

GHA GEWALT HAMILTON ASSOCIATES, INC.
www.gha-engineers.com

1 inch = 150 Feet

Septic Structure Location Map

Ridge Rd & Merri Oaks Rd
Barrington Hills, IL

Sources: Lake County GIS

File: I:\Data\ByClient\Barrington\Hills\ArcExhibits\SMarks\AddressMapping\SepticMap.mxd

MEMORANDUM

To: ZBA Members
Robert Kosin, Village Administrator

625 Forest Edge Drive, Vernon Hills, IL 60061

TEL 847.478.9700 ■ FAX 847.478.9701

www.gha-engineers.com

From: Dan Strahan, P.E., CFM
Gewalt Hamilton Associates

Date: April 15, 2016

Re: St. Mark's Rectory
Stormwater Quality Testing- Fecal Coliform

Following discussions at the February 2015 ZBA meeting, Village staff requested that our office address the topic of fecal coliform in surface water. Our office complete water quality testing at various locations throughout the Village on an annual basis as part of the Village's NPDES permit, and fecal coliform was recently added as a parameter for which the Village must test.

Fecal coliform is a bacteria found in the digestive systems of warm blooded organisms. Fecal coliform itself does not pose a health threat but rather is used as an indicator for bacteria that can cause illnesses in both humans and aquatic life. Sources of fecal coliform in surface waters typically include animal waste and malfunctioning septic systems.

The Illinois Pollution Control Board Title 35, Subtitle C, Chapter 1, Section 304.224 establishes the following standards for permitted effluent discharges (i.e. licensed discharges from wastewater treatment plants) to surface waters:

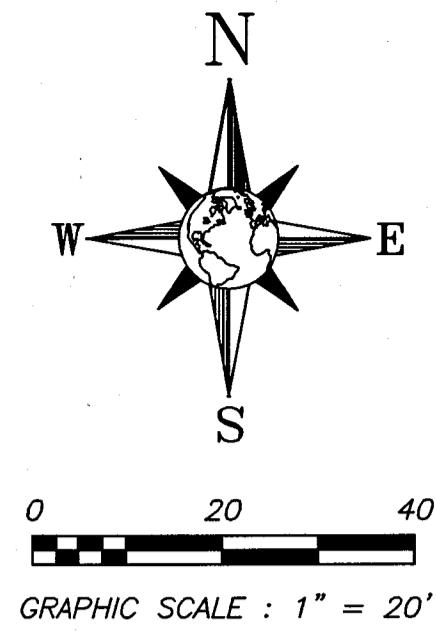
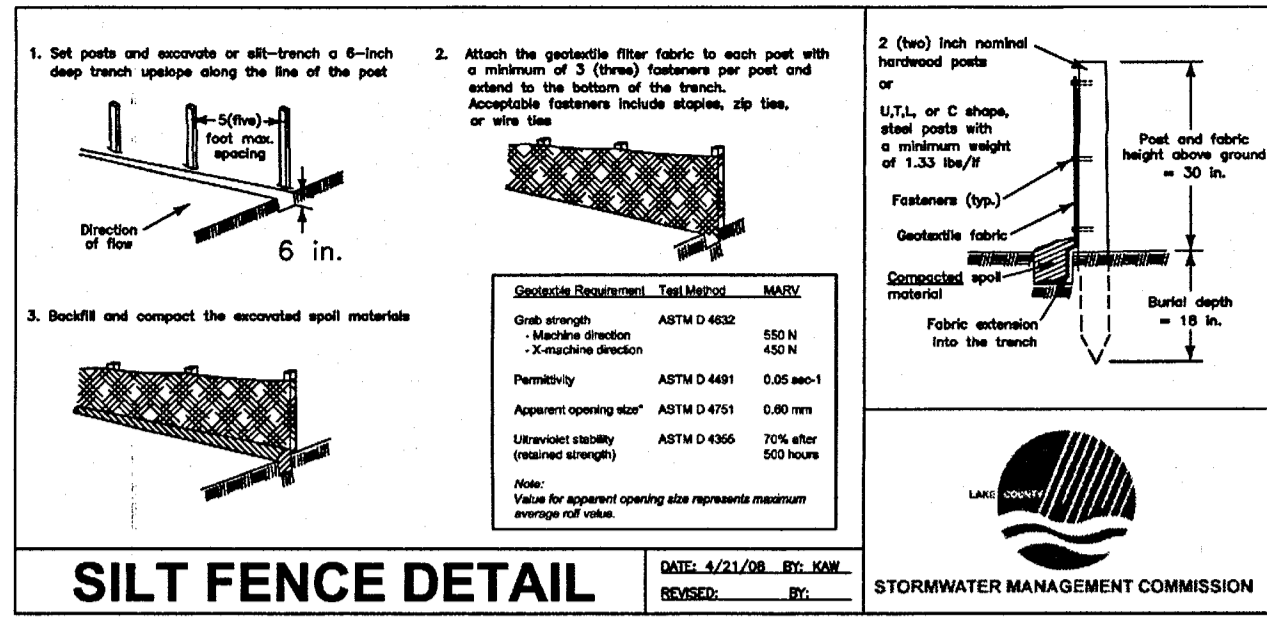
Section 304.224 Effluent Disinfection

From March 1 through November 30, effluents discharged to the Primary Contact Recreation waters listed in 35 Ill. Adm. Code 303.220 must not exceed 400 fecal coliform colony forming units (CFU) per 100 mL if less than 10 samples are taken in a month. If 10 or more samples are taken in a month, fecal coliform shall not exceed a 30-day geometric mean of 200 CFU per 100 mL, nor shall more than 10% of the samples during any 30 day period exceed 400 CFU per 100 mL. All effluents in existence on or before February 3, 2012 must meet these standards by March 1, 2016. All new discharges must meet these standards upon the initiation of discharge.

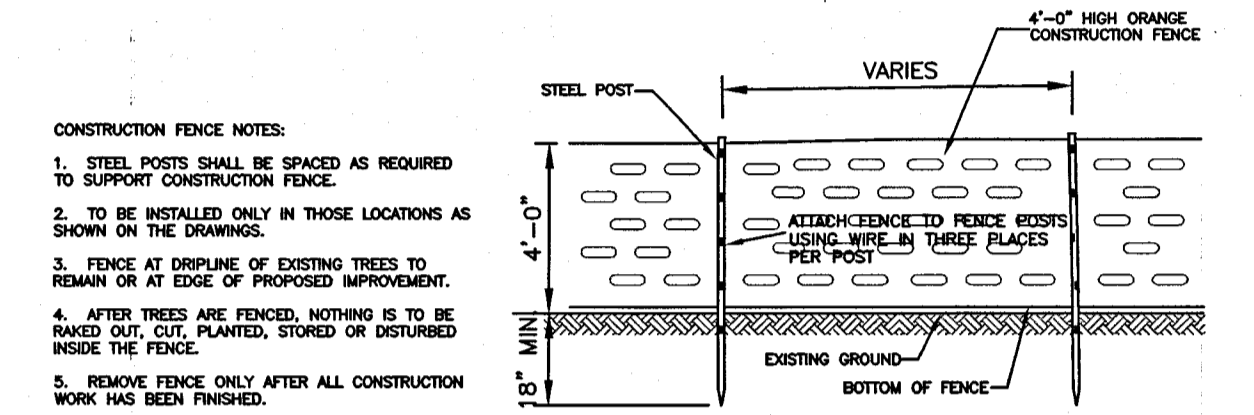
It is noted that these standards apply to Primary Contact Recreation waters (i.e. waters suitable for full immersion swimming, diving, etc.). For reference, the Village's water quality testing tested for fecal coliform at the upstream and downstream ends of Flint Creek and Spring Creek. The highest value found was at the upstream end, immediately downstream of Crabtree Nature Center, at a level of 517.2 CFU/100 mL.

SEPTIC SYSTEM REPAIR

N 89°19'48" E 666.46' = MEAS.



TREE PROTECTION & CONSTRUCTION FENCE DETAIL



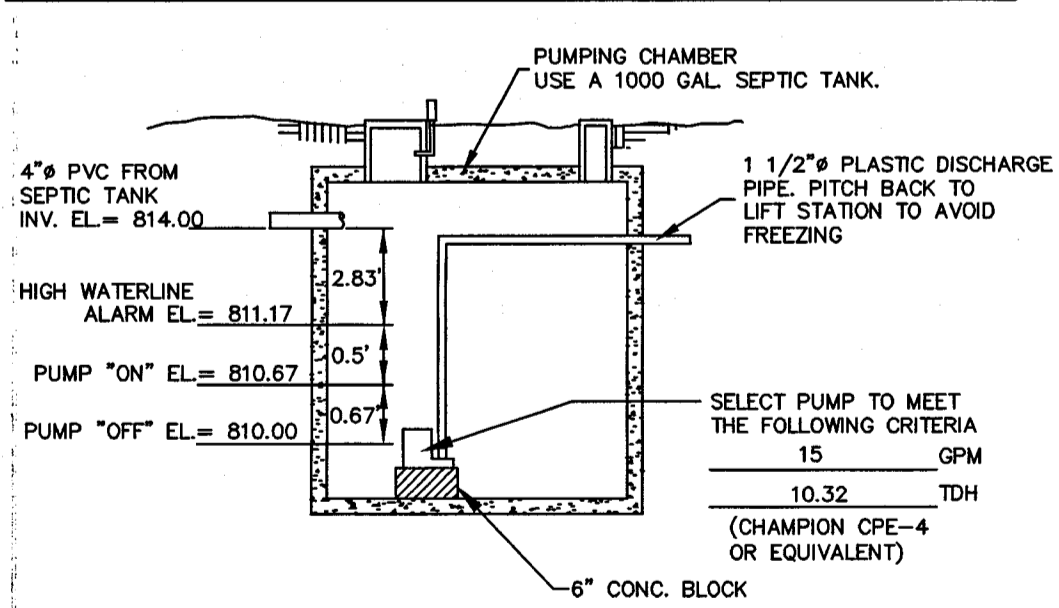
FILL OVER SEPTIC CHAMBERS

FILL SEPTIC FIELD AREA TO MATCH PROPOSED FINISH CONTOURS. USE ONLY POROUS TOPSOIL CONTAINING LESS THAN 30% CLAY. FILL SHALL EXTEND 10 FEET BEYOND TRENCHES THEN SLOPE AT 3:1 MAX. PREPARE SITE BY PLOWING WITH A "MOLD BOARD" PLOW, HANDLE AND GRADE FILL ONLY WHEN BOTH THE SITE AND FILL ARE DRY. USE A SWAMP TYPE DOZER WHICH EXERTS MINIMUM PRESSURE ON THE FILL.

DEPTH OF FILL: 6 INCHES (MIN.)

ESTIMATED QUANTITY: 70 CUBIC YARDS

LIFT STATION DETAIL



CHAMBER DETAILS

INFILTRATOR Quick 4 Plus Standard Chamber

DESIGN CRITERIA

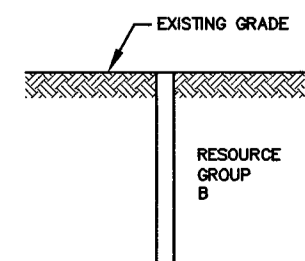
LOADING RATE W/1.2 INCREASE FOR AERATOR: $0.62 \times 1.2 = 0.744$

$0.744 \text{ GPD/SF} \times 3.0 \text{ SF/LF} = 2.23 \text{ GPD/LF}$

4 BEDROOMS = 800 GPD / 2.23 = 359 LF

CHAMBERS FIELD REQUIRED: $359 \text{ LF} \times \frac{3.00}{3.77} = 286 \text{ LF.}$

SOIL PROFILE



NOTE:

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITIES SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS NOT TO BE RELIED UPON FOR THE CONVENIENCE OF THE READER. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY OF THE UNDERGROUND UTILITY FACILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING JULLIE AT 1-800-992-9122 AND MUST OBTAIN A BID NUMBER AT LEAST 72 HOURS PRIOR TO ANY WORK BEING DONE.

HLC SEPTIC DESIGN IS A SERIES OF HERITAGE LAND CONSULTANTS, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY.

ILLINOIS PROFESSIONAL LAND SURVEYOR AND PROFESSIONAL ENGINEERING DESIGN FIRM CORPORATION LICENSE NO. 184.004953 EXPIRES: 04-30-2017

LEGEND

- ⊖ = 27 L.F. - 4" DIA. P.V.C. (SCHED. 40) W/SEALED JTS. AT 2.0% MIN.
- ⊖ = 500 GALLON SEPTIC TANK
- ⊖ = 600 (MIN.) GALLON CLASS 1 AEROBIC UNIT (CLEARSTREAM, MULTI-FLO, OR EQUAL)
- ⊖ = 4+2 L.F. - 4" DIA. P.V.C. (ASTM 3034) AT 1.0% MIN. SLOPE
- ⊖ = LIFT STATION (SEE DETAIL)
- ⊖ = 25 L.F. - 1 1/2" DIA. SOLID PLASTIC DISCHARGE PIPE, RUN INSIDE HEADER LINE WHERE POSSIBLE. PREVENT SIPHON IN FIRST DROP BOX.
- ⊖ = 286 L.F. SEPTIC FIELD INFILTRATOR Q-4 PLUS STANDARD CHAMBERS BY INFILTRATOR (OR EQUAL) LAID LEVEL IN 36" WIDE TRENCHES, 18" TO 20" DEEP.
- = L.F. CURTAIN DRAIN AND 4" DIA. SOLID PLASTIC PIPE, PITCH DOWNHILL AT 0.5% MIN. SLOPE AND DISCHARGE TO SEWER LINE. CONNECT ALL GUTTER DOWNSPOUTS AND FOOTING TILE SUMP PUMP TO CURTAIN DRAIN.
- = PROPOSED BOTTOM OF TRENCH ELEVATION
- = PROPOSED PIPE INVERT ELEVATION
- ▨ = SOIL PROFILE BORING
- = PROPOSED FINISH CONTOUR
- - - = EXISTING CONTOUR
- XX-XX = SILT FENCE
- = CONSTRUCTION FENCE FOR TREE OR SEPTIC PROTECTION

SPECIAL NOTES

THIS DESIGN IS BASED UPON (1) THE FIELD CONDITIONS AS THEY WERE ON THE DAY THE PERCOLATION TEST OR TYPING, AND/OR TOPOGRAPHIC INFORMATION WERE OBTAINED, AND (2) DATA FURNISHED BY THE OWNER OR CONTRACTOR OR THEIR REPRESENTATIVE - REGARDING BUILDING SIZE, NUMBER OF BEDROOMS, AND/OR PEOPLE WITHIN THE UNIT TO BE SERVED.

ANY DEVIATIONS FROM THESE DESIGN CONDITIONS SUCH AS (1) CHANGING THE NUMBER OF BEDROOMS AND/OR PEOPLE TO BE SERVED, (2) REDUCING THE PERCOLATION CAPACITY OF THE SOILS - BY RUNNING HEAVY EQUIPMENT OVER, OR STOCK PILING BUILDING MATERIAL OR EXCAVATED SOIL ON THE SEEPAGE FIELD AREA, (3) REDUCING THE EFFECTIVE SEEPAGE FIELD BY - SIGNIFICANTLY CHANGING, ACTUALLY REDUCING, OR COVERING THE SEEPAGE FIELD WITH PAVEMENT, (4) OVERKING GROUND WATER INTO OR OVER THE SEEPAGE FIELD, OR (5) INTRODUCING OILS AND/OR GREASES INTO THE SEEPAGE FIELD - WILL VOID THIS DESIGN.

GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES, AND HAVE ALL EXISTING UTILITY INSTALLATIONS LOCATED AND STAKED PRIOR TO CONSTRUCTION.
- ALL BACKFILL USED FOR THE SEEPAGE FIELD TRENCHES SHALL BE POROUS TOPSOIL CONTAINING LITTLE OR NO CLAY.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS SUCH AS WELL LOCATIONS, HOUSE AND ANY EXISTING SEPTIC FIELD LOCATIONS, ALL ELEVATIONS PRIOR TO INITIATING ANY CONSTRUCTION.
- ALL DOWNSPOUTS AND SUMP PUMP SHALL DISCHARGE AWAY FROM THE SEEPAGE FIELD, OR INTO A CURTAIN DRAIN.
- ALL INSTALLATIONS SHALL CONFORM TO THE APPROPRIATE REGULATORY AGENCY REQUIREMENTS.
- PRIOR TO THE START OF ANY BUILDING CONSTRUCTION ACTIVITY A TEMPORARY FENCE SHALL BE CONSTRUCTED AROUND THE PROPOSED SEEPAGE FIELD AREA.
- NO SEEPAGE FIELD CONSTRUCTION, OR PLACING OF TOPSOIL IS PERMITTED UPON WET OR FROZEN GROUND.
- NO LAWN IRRIGATION SYSTEMS MAY BE INSTALLED WITHIN 25' OF THE SEPTIC SEEPAGE FIELD AREA.
- SEPTIC CONTRACTOR IS TO NOTIFY DESIGN ENGINEER AND VILLAGE REPRESENTATIVE 48-HOURS IN ADVANCE OF CONSTRUCTION TO REVIEW AND INSPECT INSTALLATION PRIOR TO COMMENCEMENT OF ANY BACKFILLING.
- ABANDONED SEPTIC TANKS SHALL BE COMPLETELY PUMPED, THE FLOOR AND WALLS SHALL BE CRACKED OR CRUMBLED SO THE TANK WILL NOT HOLD WATER AND THE TANK SHALL BE FILLED WITH GRANULAR CRACKED FILL.
- EXISTING WELL TO BE CAPPED, SEALED, AND ABANDONED ACCORDING TO ALL APPLICABLE STATE, COUNTY, AND LOCAL CODES AND ORDINANCES.
- THE EXISTING SEEPAGE TRENCH WHICH INTERFERES WITH NEW TRENCHES, SHALL BE REMOVED AND THE VACATED AREA FILLED WITH LIGHTLY COMPACTED TOPSOIL.

VILLAGE OF BARRINGTON HILLS NOTES

- THE DESIGN ENGINEER SHALL APPROVE THE LAYOUT OF THE SEPTIC SYSTEM INSTALLATION PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
- THE DESIGN ENGINEER AND VILLAGE REPRESENTATIVE SHALL REVIEW THE SEPTIC SYSTEM INSTALLATION PRIOR TO COMMENCEMENT OF ANY BACKFILLING.
- THE INSTALLER SHALL NOTIFY THE DESIGN ENGINEER OF THE PRECISE TIME SCHEDULE FOR THIS PROJECT 2 DAYS IN ADVANCE OF INITIATING ANY CONSTRUCTION, AND SHALL UPDATE THE ENGINEER OF ANY DELAYS DUE TO WEATHER.
- DELETED.

PREPARED BY AND/OR UNDER THE DIRECT SUPERVISION OF:

Robert J. Finberg
 FEDERAL FINBERG P.E.
 LICENSED PROFESSIONAL ENGINEER
 ILLINOIS NO. 62-28834
 EXPIRES: 11-30-17



REVISION #2	4-6-2016	PER VILLAGE REVIEW	PAF
REVISION #1	3-15-2016	PER CLIENT	PAF
REVISION #1	2-9-2016	PORCH ADDITION	PAF

SEPTIC SYSTEM REPAIR
 PART OF THE NW 1/2 OF NW 1/4 OF SW 1/4 OF THE NW 1/4 OF SECTION 28-43-9

PAF SEPTIC DESIGN

SCALE: 1" = 20'
 DATE: 1-7-2016
 DRAWN BY: MWR
 CHECKED BY: PAF
 JOB NUMBER: 2015-275 SEP

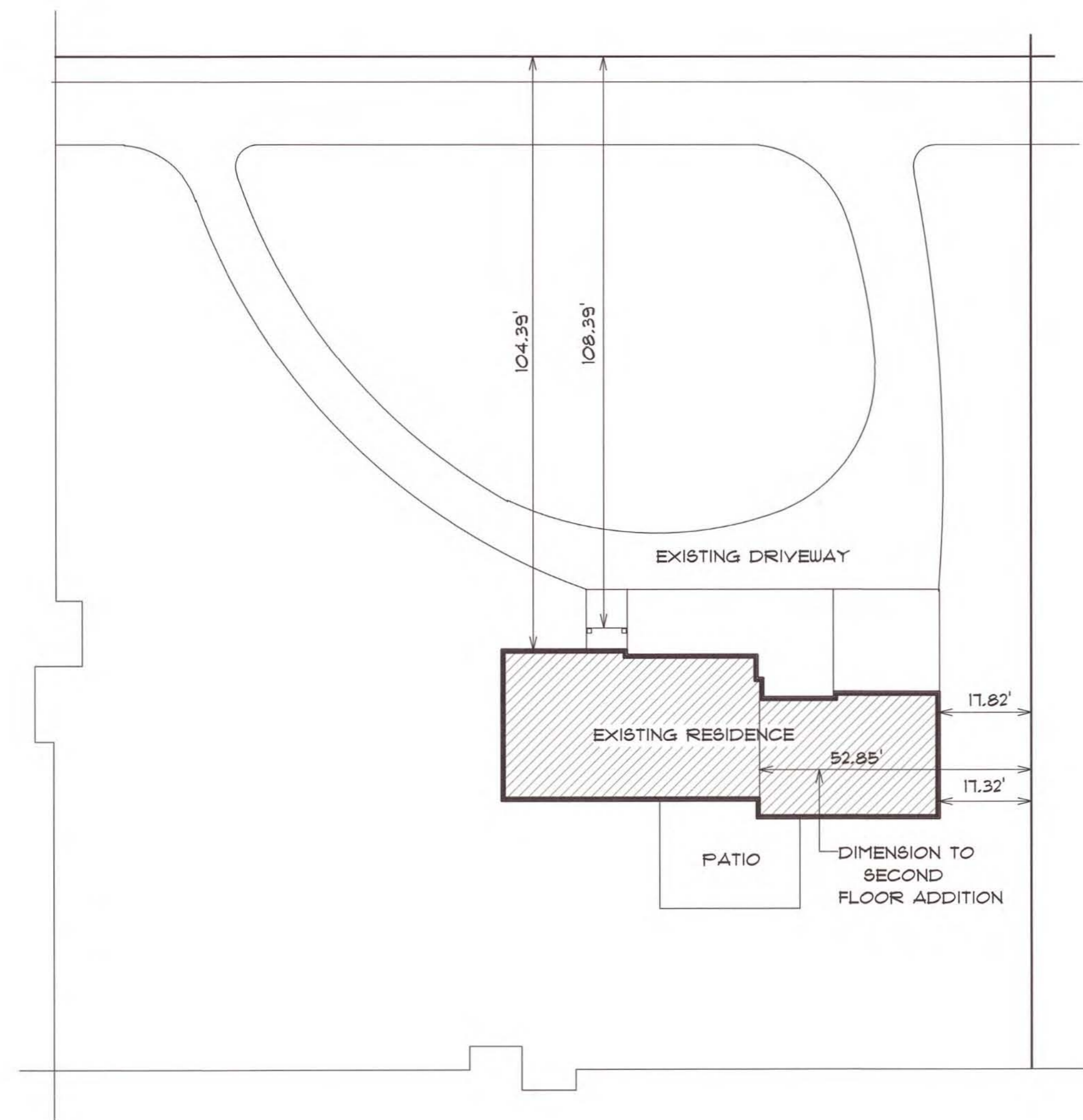
CLIENT: ST. MARKS EPISCOPAL CHURCH
 ADDRESS: 337 RIDGE ROAD, BARRINGTON HILLS, ILLINOIS

DISK: 160406 FILE NO. 15275SEP FILE NO. 152333 PAC. NO. 152333P

HLC SEPTIC DESIGN
 758 RIDGEVIEW DRIVE
 MCHENRY, ILLINOIS 60050
 (815) 344-2522

RESIDENTIAL REMODEL FOR:

ST. MARK'S RECTORY

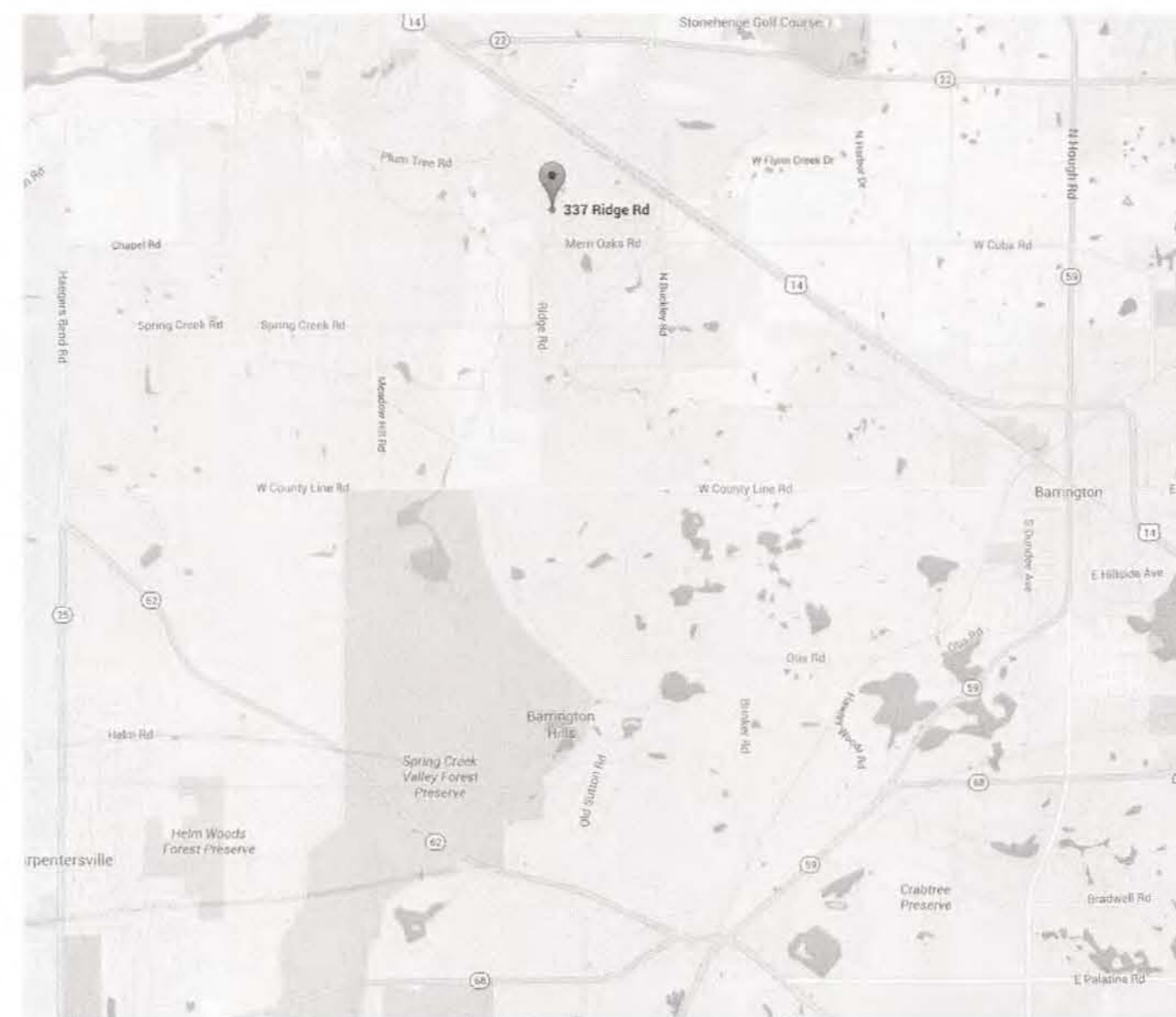


SITE PLAN SCALE 1" = 20'-0"



AERIAL IMAGE

NO SCALE



LOCATION MAP

NO SCALE

1. The plumbing inspector shall field verify all plumbing work shall be performed in accordance with the 2014 Illinois Plumbing Code.
2. The plumbing inspector shall field verify the newly installed drainage and vent system shall be pressure tested with water or air.
3. The plumbing inspector shall field verify the size of the water service shall be properly sized to adequately supply all plumbing fixtures hot and cold water distribution system.
4. The plumbing inspector shall field verify the newly installed drain, waste, vent, and water distribution system shall be properly sized in accordance with the appropriate tables found in 890.Appendix A.
5. The plumbing inspector shall field verify where a health or safety hazard exists because of an existing plumbing installation or lack thereof, the owner or his agent shall install additional plumbing or make such corrections as may be necessary to abate the hazard or violation.

SHEET INDEX	
SHEET NUMBER	SHEET DESCRIPTION
C6	INDEX / AERIAL & LOCATION MAP
A1	EXISTING & DEMOLITION PLANS
A2	BASEMENT & FIRST FLOOR PLANS
A3	SECOND FLOOR & ROOF PLAN
A4	ELEVATIONS & LIGHT - VENT SCHEDULE
A5	BUILDING NOTES

VILLAGE CODES	
1990 BOCA National Building Code	2008 National Electric Code
1979 CABO One & Two Family Dwelling Code	2004 Illinois State Plumbing Code
1976 BOCA Basic Mechanical Code	2012 International Energy Conservation Code
1993 BOCA National Fire Prevention Code	

VILLAGE OF BARRINGTON HILLS
APPROVED
1-5-16
Ken Garrett

SIGNED:

STRUCTURAL ENGINEER LICENSE NO. 081-002641

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE THEY CONFORM TO THE VILLAGE OF BARRINGTON HILLS ZONING AND BUILDING CODES

LICENSE EXPIRES
NOV. 30 2016



COPYRIGHT

RESIDENTIAL REMODEL FOR:
ST. MARK'S RECTORY
337 RIDGE ROAD BARRINGTON HILLS ILLINOIS 60010

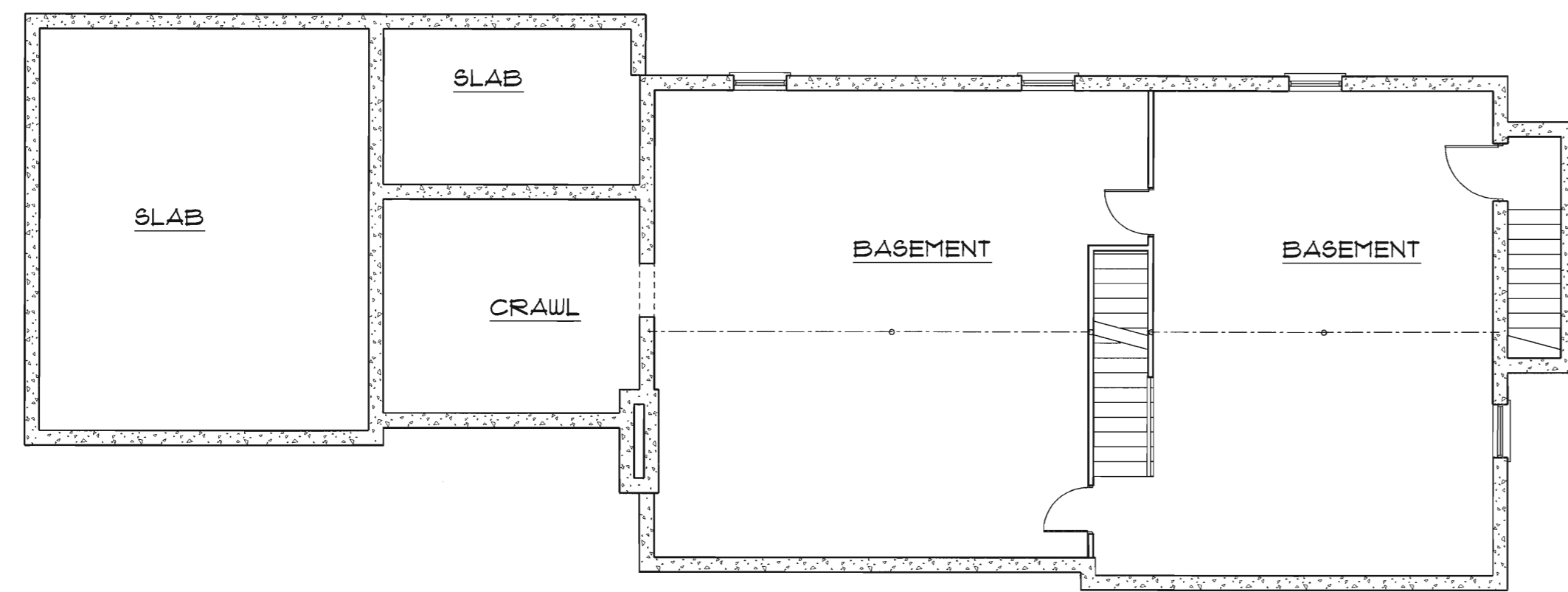
DATE
NOV 13, 2015

REVISION
DEC 15, 2015

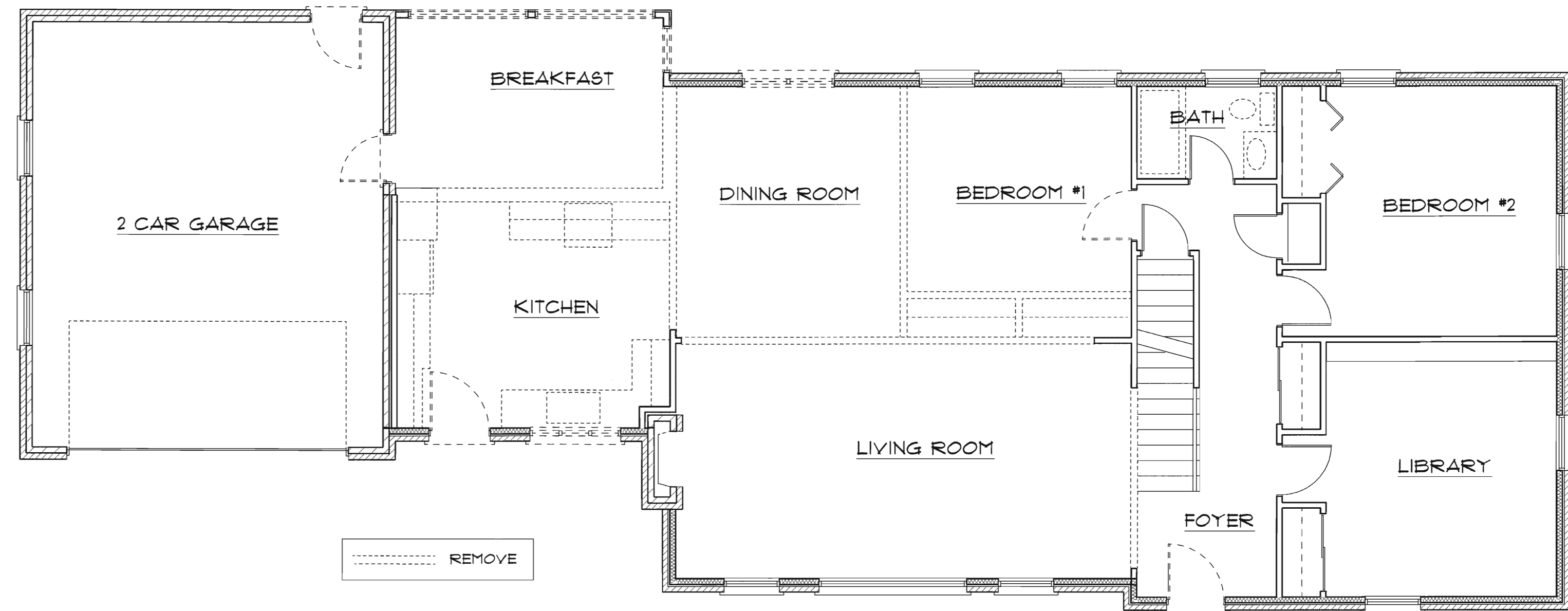
JOB #

SHEET #
CS

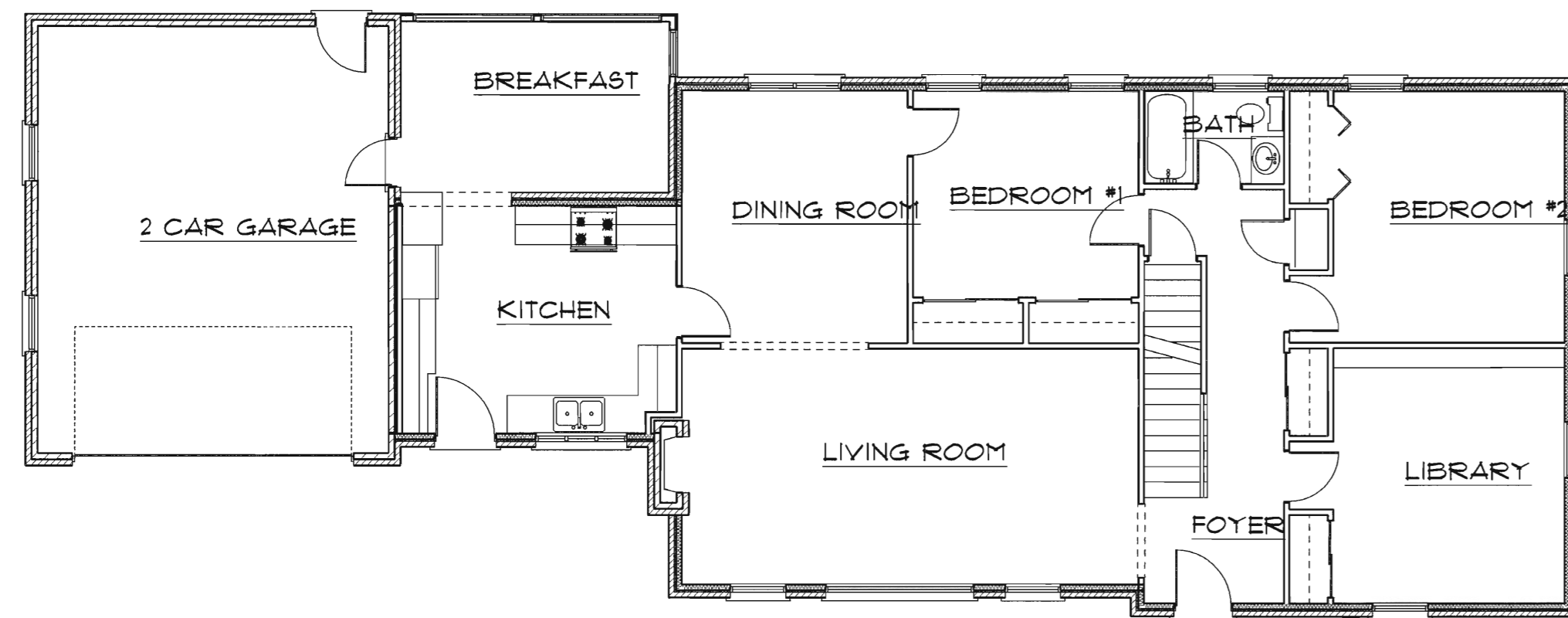
JOSEPH A. MEYER
STRUCTURAL & PROFESSIONAL ENGINEER
135 PARK AVE. BARRINGTON IL. 60010 847-382-0200



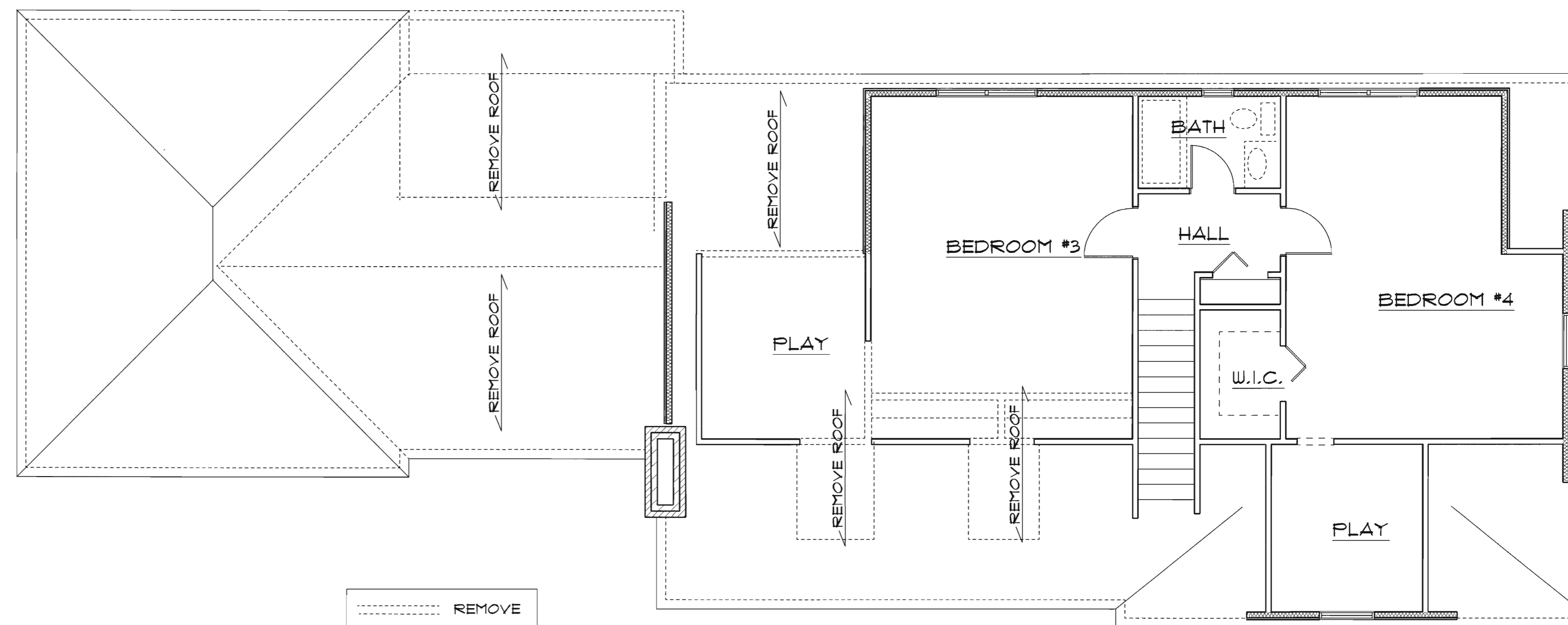
FOUNDATION PLAN SCALE 1/8" = 1'-0"
EXISTING



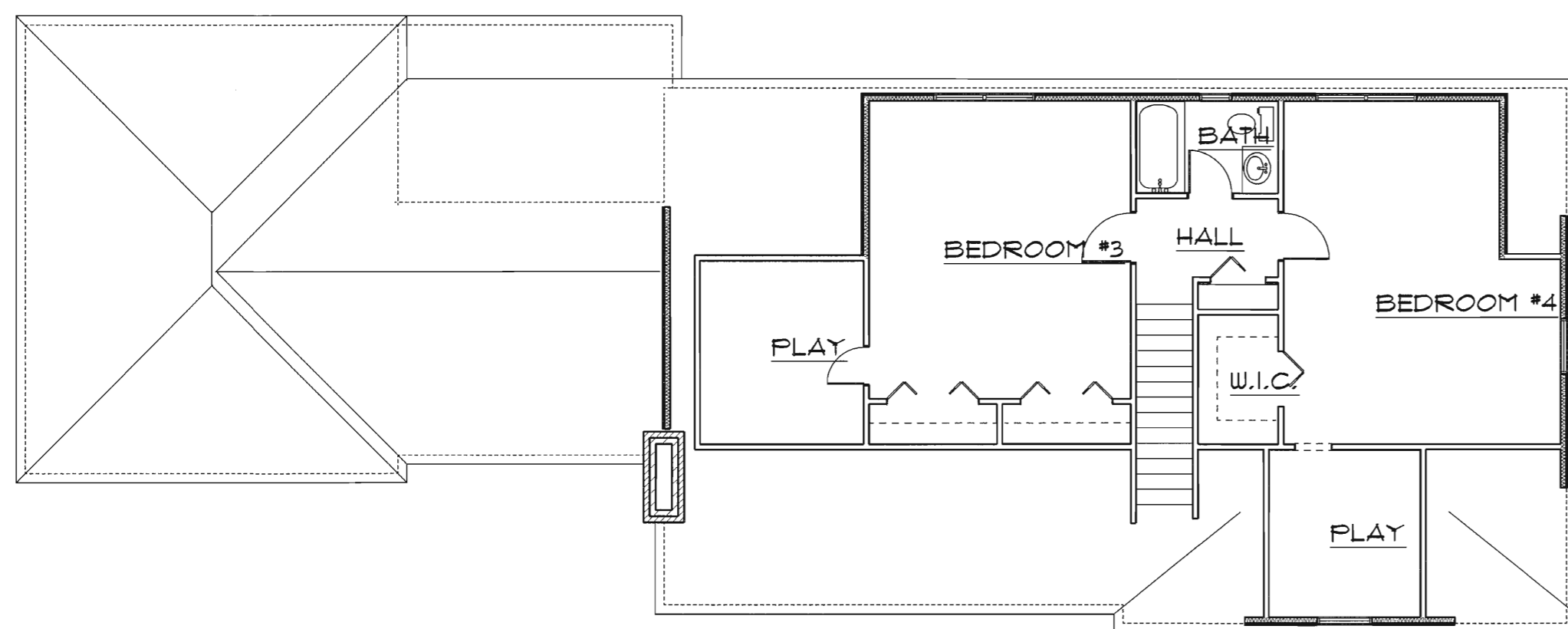
FIRST FLOOR PLAN SCALE 3/16" = 1'-0"
DEMOLITION



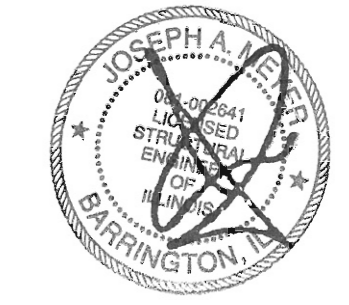
FIRST FLOOR PLAN SCALE 1/8" = 1'-0"
EXISTING



SECOND FLOOR PLAN SCALE 3/16" = 1'-0"
DEMOLITION



SECOND FLOOR PLAN SCALE 1/8" = 1'-0"
EXISTING





ROOF CONSTRUCTION
 ASPHALT SHINGLES
 30 LB. FELT
 ICE & WATER SHIELD ALL EAVES & VALLIES
 1/2" EXTERIOR GRADE PLYWOOD
 2 X 10 RAFTERS @ 16" O.C.
 2 X 8 CLG JSTB @ 16" O.C.
 (MAINTAIN 1 1/2" CLEAR VENT SPACE)
 BAFFEL BETWEEN EACH JOIST
 ROOF VENTS
 USE LEAD FLASHING ON VENT PIPES THROUGH ROOF

CORNICE CONSTRUCTION
 1 X CEDAR FASCIA (MATCH EXISTING)
 1 X W/ VENTS
 ALUMINUM GUTTERS AND DOWNSPOUT

WALL CONSTRUCTION
 8" SIDING MATCH EXISTING
 TYVEK PAPER
 1 1/2" EXTERIOR GRADE GYP. BD.
 2 X 8 STUDS @ 16" O.C.
 FIBERGLASS INSULATION (R-21)
 VAPOR PERMEABLE MEMBRANE ON WARM SIDE OF EXTERIOR WALL
 1/2" GYPSUM BD. ON WALLS 5/8" CEILING

FLOOR CONSTRUCTION
 3/4" T & G PLYWOOD SHEATHING
 (GLUE & SCREW)
 VERIFY 2 X 10 FLR JSTB

WALL CONSTRUCTION
 EXISTING

FLOOR CONSTRUCTION
 EXISTING

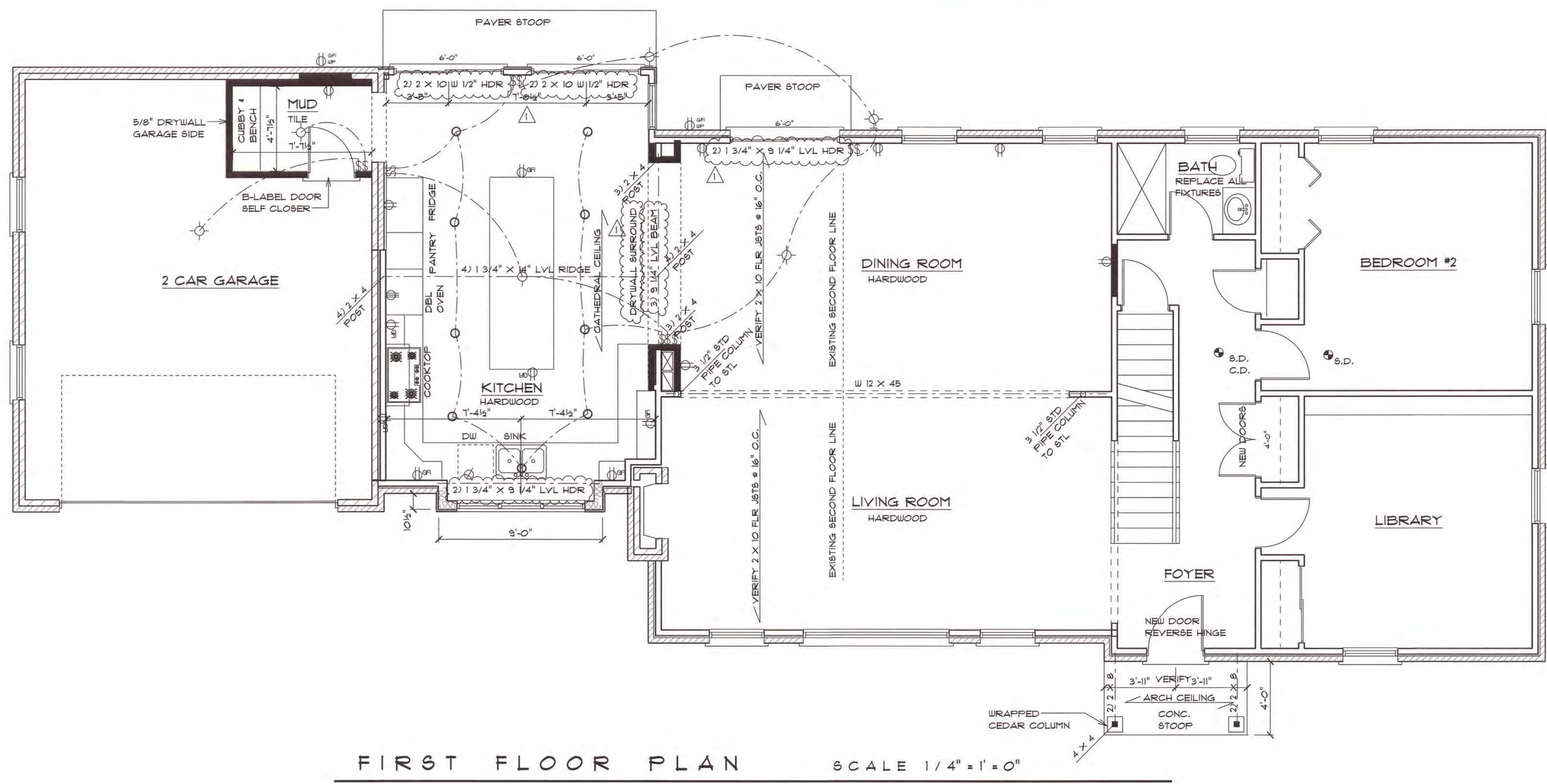
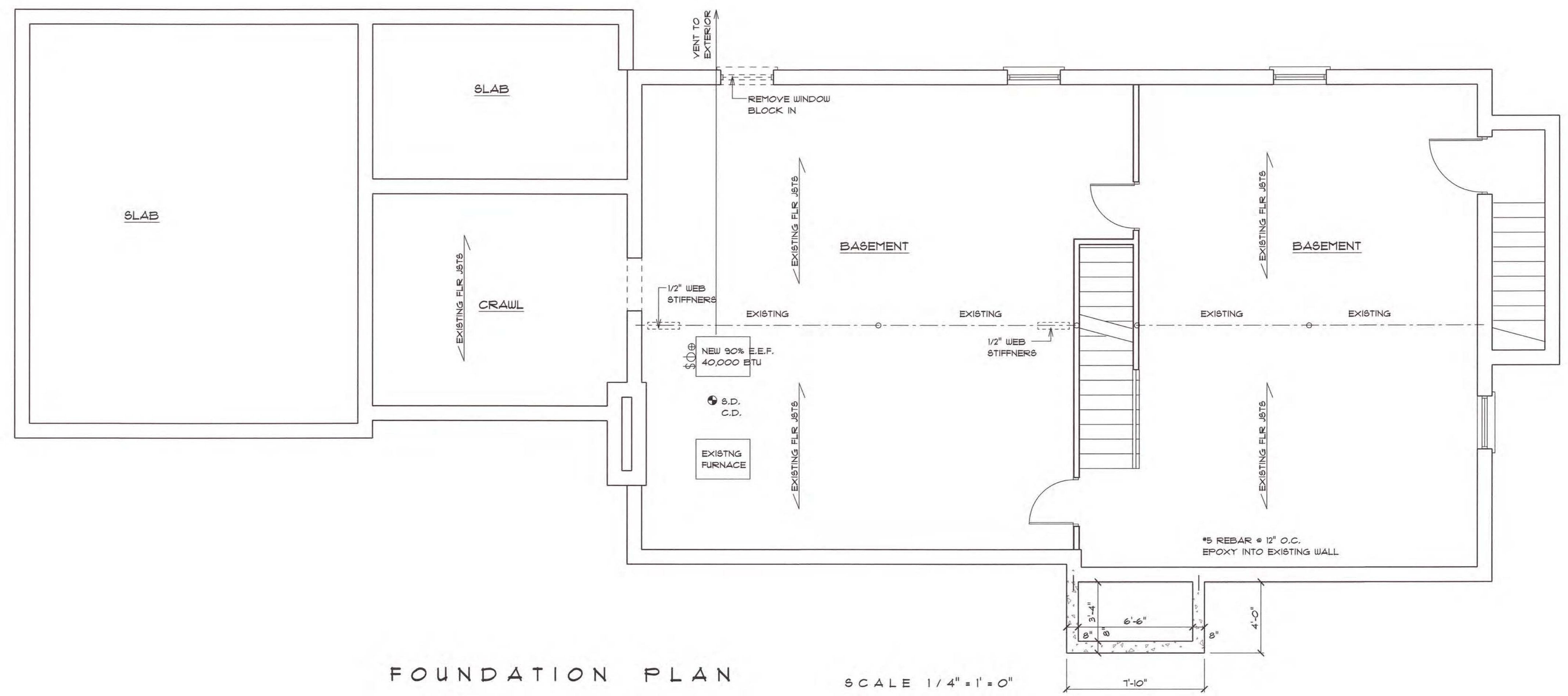
FOUNDATION CONSTRUCTION
 EXISTING

SLAB CONSTRUCTION
 EXISTING

TYP. WALL SECTION
 SCALE 1/2" = 1'-0"

DESIGN LOADS

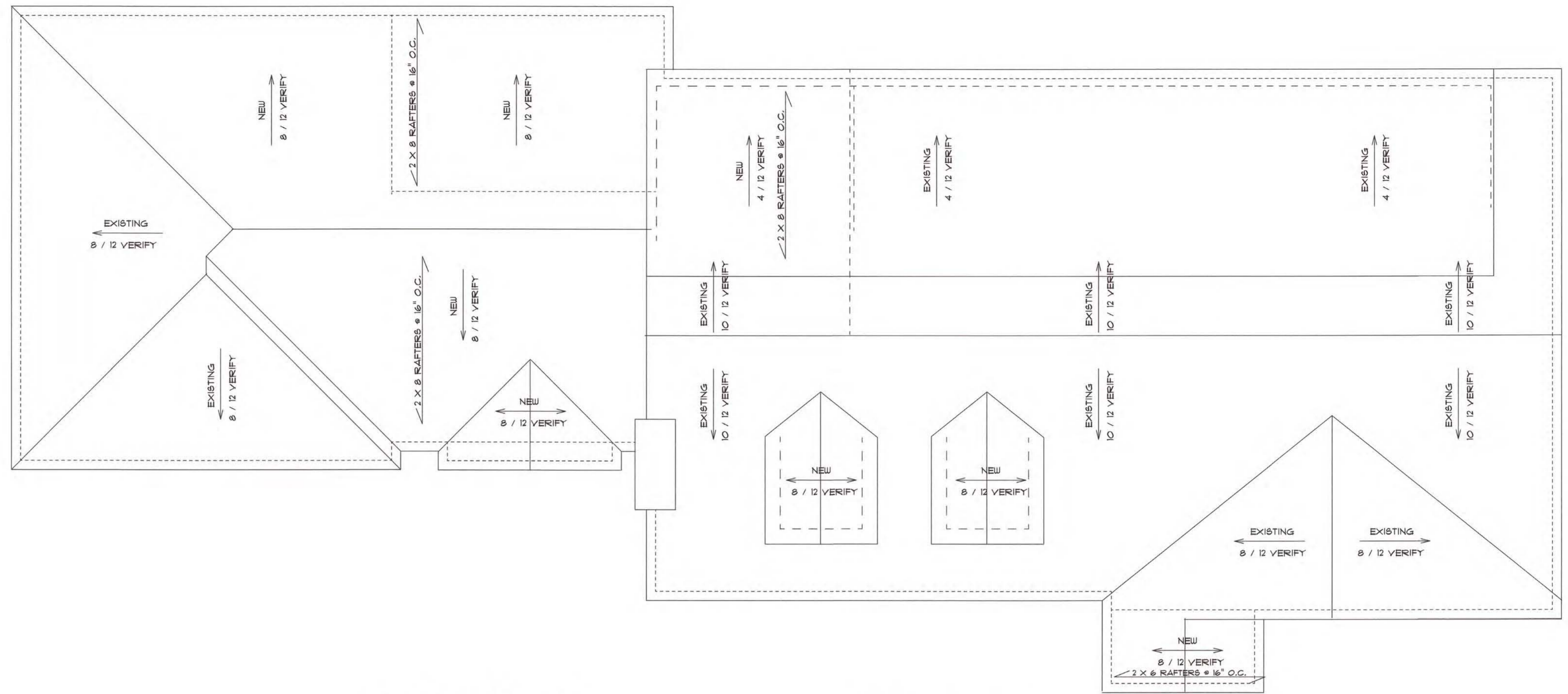
ROOF	LIVE LOAD 30 PSF	FLOORS	LIVE LOAD 40 PSF	WIND	LIVE LOAD 20 PSF
DEAD LOAD 10 PSF	TOTAL LOAD 40 PSF	LIVE LOAD 10 PSF	DEAD LOAD 50 PSF	WOOD WALL	10 PSF
		DEAD LOAD 10 PSF	TOTAL LOAD 100 PSF	BRICK VENEER	50 PSF
CEILING	LIVE LOAD 20 PSF	DECKS	LIVE LOAD 10 PSF	CONCRETE WALL	100 PSF
DEAD LOAD 10 PSF	TOTAL LOAD 30 PSF	LIVE LOAD 10 PSF	DEAD LOAD 10 PSF	8"	
		TOTAL LOAD 100 PSF	TOTAL LOAD 100 PSF		



WRAPPED CEDAR COLUMN

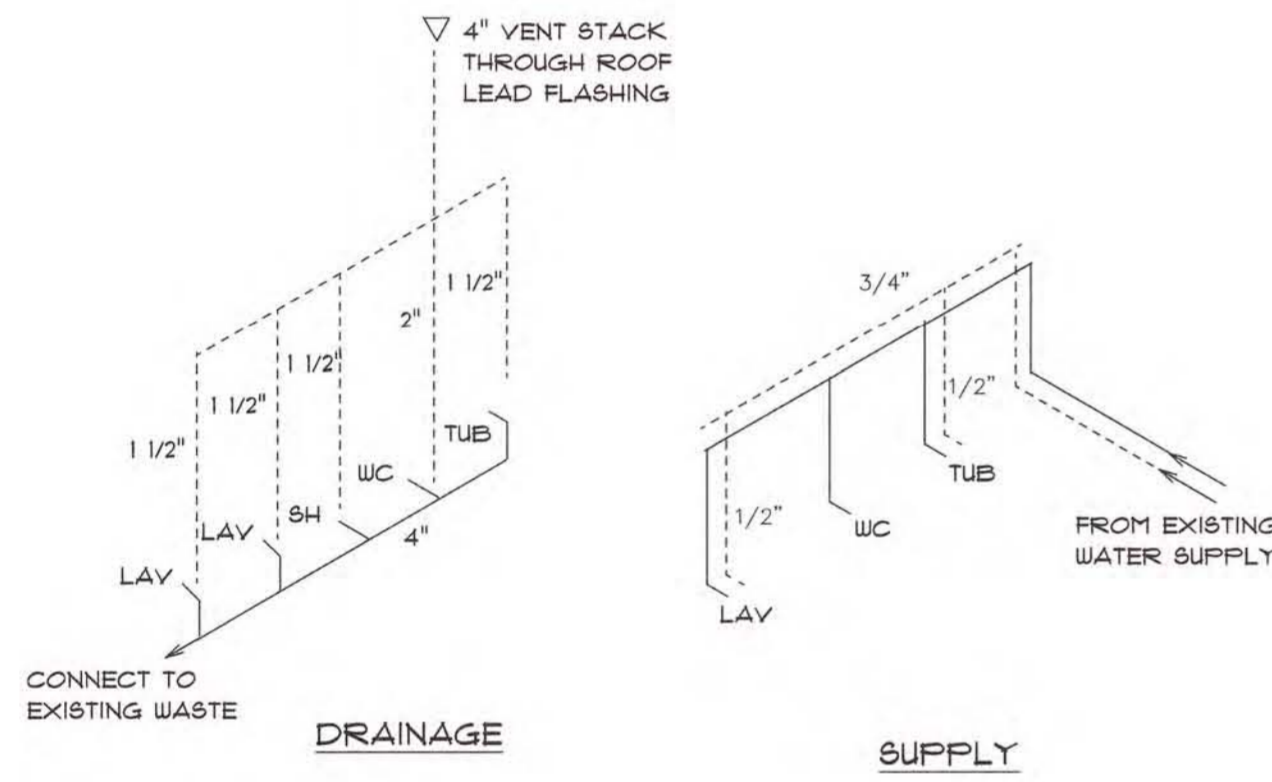
LIGHT & VENT SCHEDULE

ROOM	AREA S.F.	LIGHT		VENTILATION		REMARKS
		REQ'D	ACT.	REQ'D	ACT.	
KITCHEN	326	26.0	65.0	13.0	56.0	
MUD ROOM	38					
M. BATHROOM	90		21.0		13.5	100 CFM EX-FAN
W.I.C.	12		10.0		5.0	

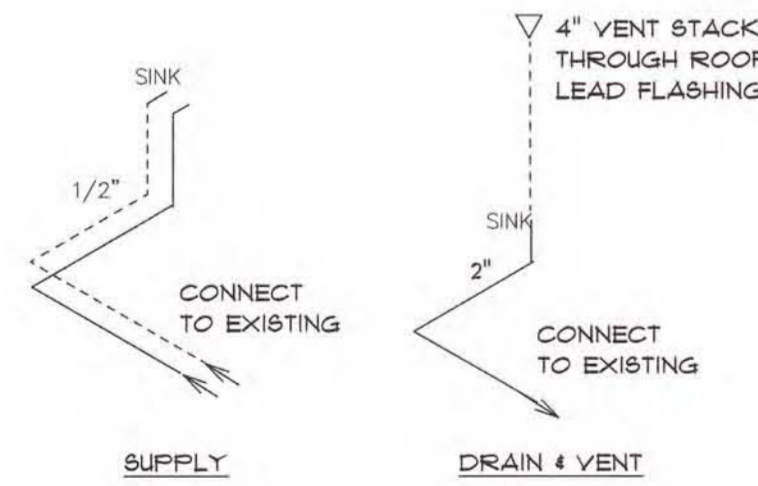


ROOF PLAN

SCALE 1/4" = 1' = 0"



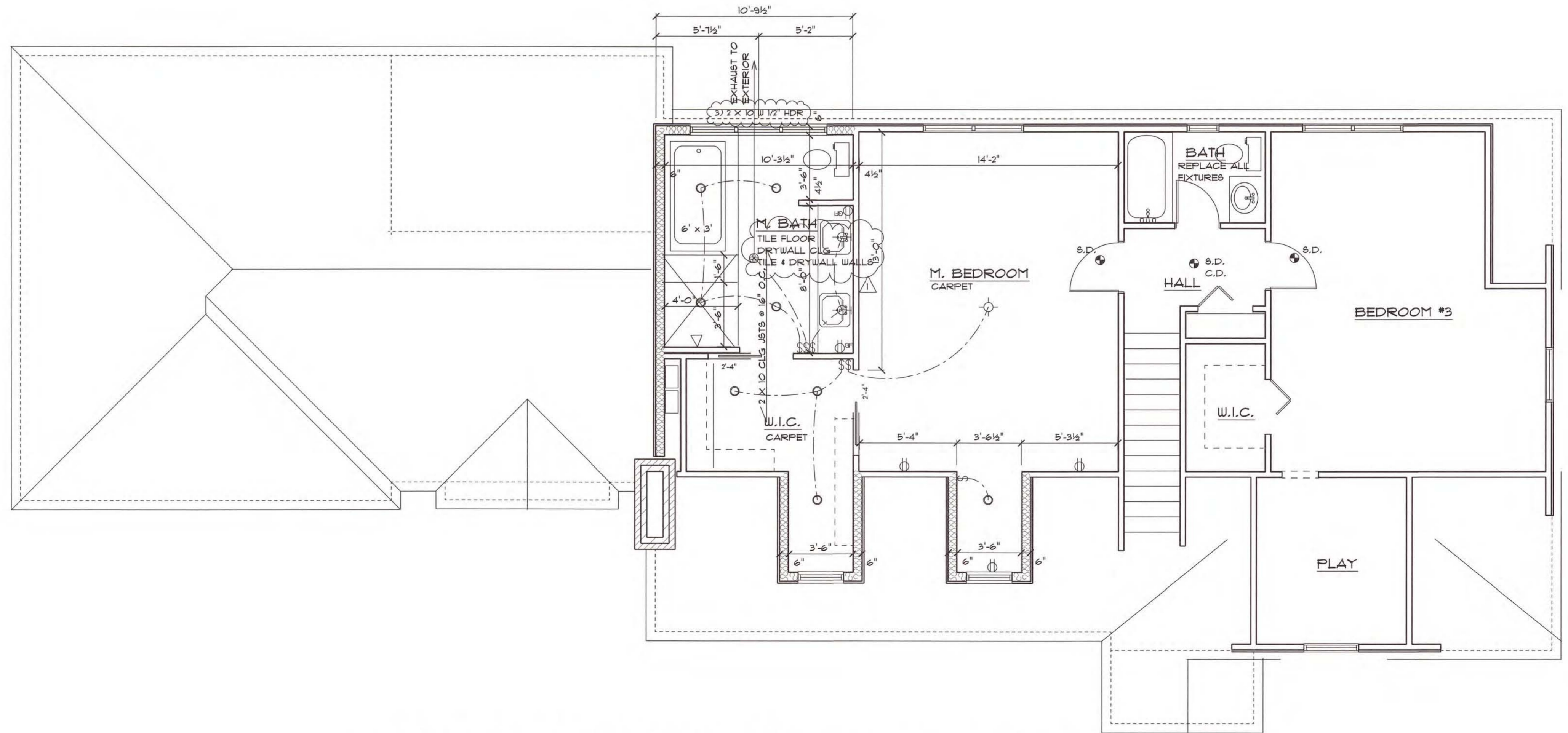
MASTER BATH



KITCHEN

LEGEND

DRAINAGE		SUPPLY	
—	WASTE	—	COLD
- - -	VENT	- - -	HOT



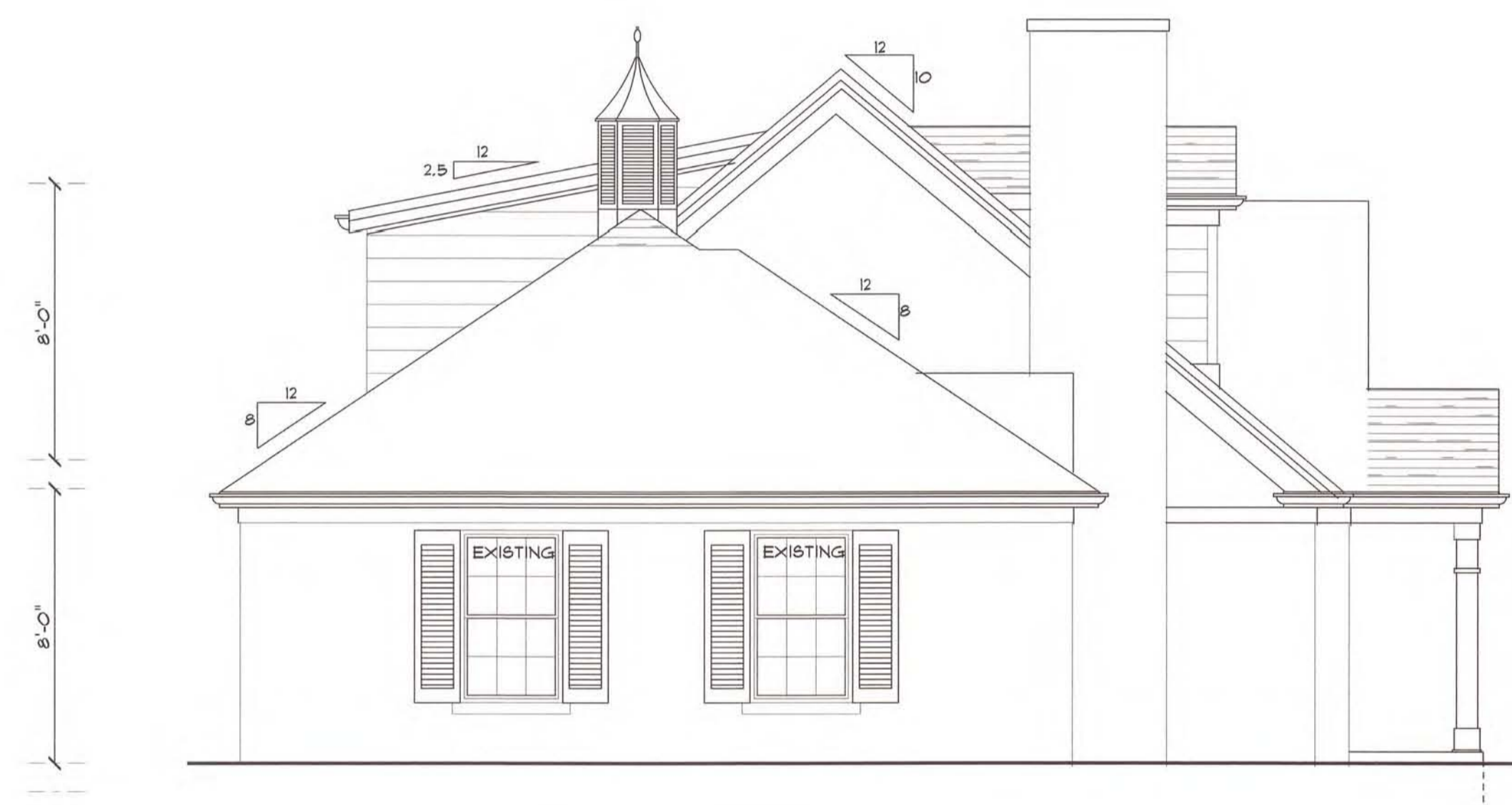
SECOND FLOOR PLAN

SCALE 1/4" = 1' = 0"

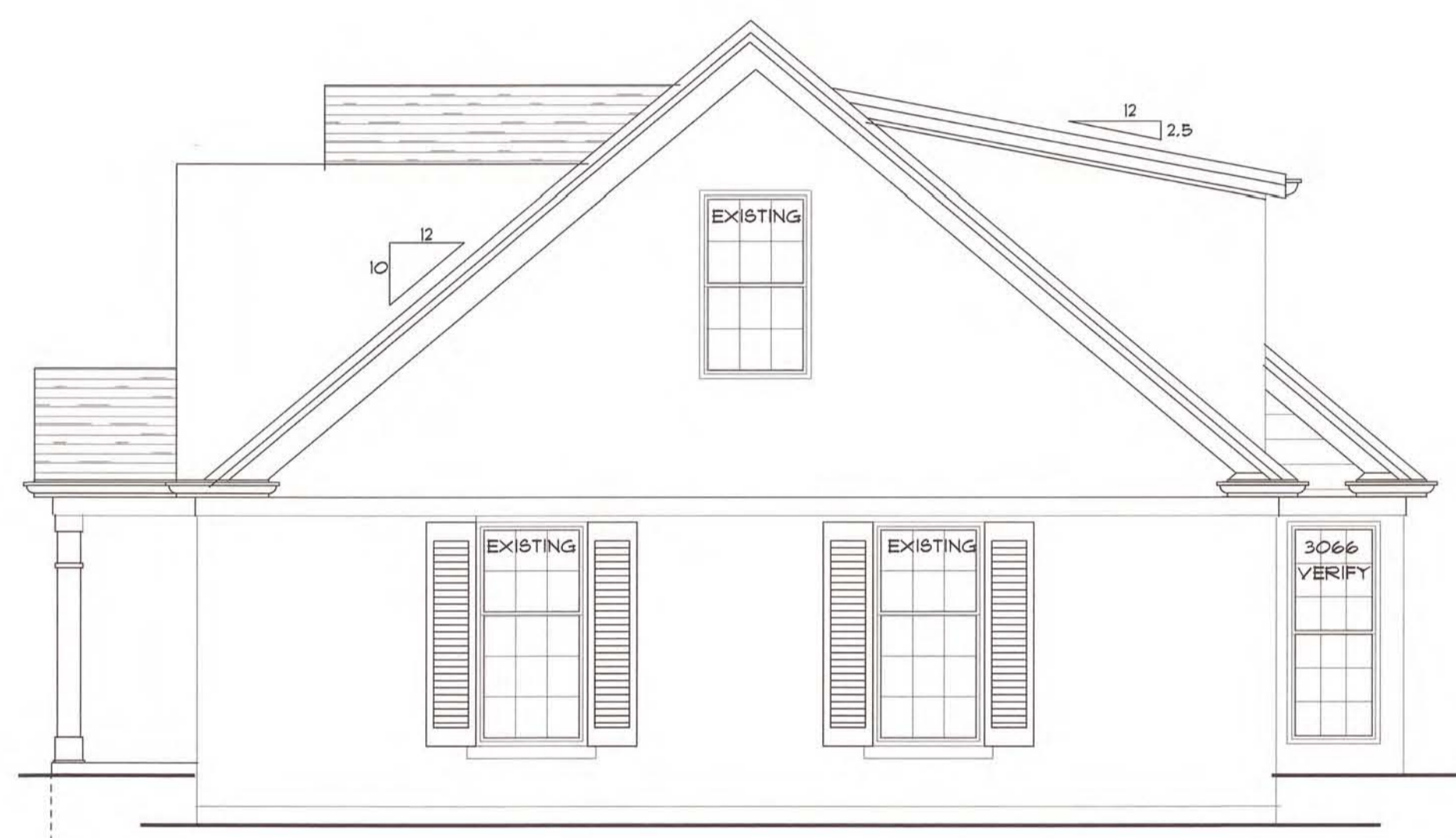




FRONT ELEVATION SCALE 1/4" = 1'-0"



RIGHT ELEVATION SCALE 1/4" = 1'-0"



LEFT ELEVATION SCALE 1/4" = 1'-0"



REAR ELEVATION SCALE 1/4" = 1'-0"



JOSEPH A. MEYER
 STRUCTURAL & PROFESSIONAL ENGINEER
 135 PARK AVE. BARRINGTON ILL. 60010 847-382-0200

RESIDENTIAL REMODEL FOR:
ST. MARK'S RECTORY
 331 RIDGE ROAD BARRINGTON HILLS ILLINOIS 60010

DATE
 NOV 13, 2015
 REVISION
 DEC 15, 2015

JOB #
 SHEET #
A4

GENERAL NOTES

- 1. ALL WORK PERFORMED SHALL COMPLY WITH ALL APPLICABLE LOCAL AND STATE BUILDING CODES, ORDINANCES, REGULATIONS AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
2. CONTRACTORS SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS ON THE JOB AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK OR BE RESPONSIBLE FOR SAME.
3. ALL INTERIOR BEARING WALLS TO BE 2 X 4 STUDS @ 16" O.C. UNLESS OTHERWISE NOTED.
4. PROVIDE 2" MIN. WOOD FIRESTOPPING TO CUT OFF ALL CONCEALED DRAFT OPENINGS BETWEEN FLOORS AND ATTIC PER CODE.
5. ALL COOKING AND HEATING DEVICES SHALL BE UL, INC. OR A.G. ASSOC. LABELED AND APPROVED OR EQUIVALENT.
6. HOT AND COLD AIR DUCTS TO BE NON-COMBUSTIBLE MATERIAL.
7. ALL JOISTS AND RAFTERS TO BE NO. 2 OR BETTER, E = 1 1/2, FD = 8 1/2 MIN DOUGLAS FIR LARCH OR CANADIAN SP. P. E = 14 LB, FD = 8 1/2.
8. ALL JOISTS TO HAVE MIN 2" BEARING ON WOOD OR STEEL.
9. MIN 3 1/2" ON MASONRY.
10. 2 1/2" X 1/2" HEADERS W/ 1/2" OVER ALL EXTERIOR OPENING UNLESS NOTED OTHERWISE
11. SILL SEALER UNDER ALL EXTERIOR WALLS.
12. ALL FURNACE ROOMS TO BE DRYWALLED AND TAPED PRIOR TO INSTALLATION OF FURNACE.
13. HOLES MAY BE BORED THROUGH JOISTS MAX 2 1/2" DIA. WITH EDGES MINIMUM 2" FROM BOTTOM OR TOP OF JOISTS.
14. ELECTRICAL PANEL LOCATION 3'-0" CLEAR EACH SIDE, 4'-0" CLEAR FRONT AND 6'-0" MAXIMUM HEADROOM INCLUDING PIPING.
15. ALL WOOD SILL FLATES BEARING ON CONCRETE SHALL BE PRESSURE TREATED FOR ROT AND TERMITES.
16. ALL CLOTHES CLOSETS EXCEPT WALK-INS SHALL HAVE FLUORESCENT FIXTURES. RECESSED FIXTURES INSTALLED IN INSULATED JOIST SPACES SHALL BE PROTECTED BY ICY TYPE FIXTURES INSULATED THERMAL PROTECTION.
17. ROOF TRUSS DIAGRAMS AND SHOP DRAWINGS TO BE SUPPLIED BY TRUSS MANUFACTURER TO BE SEALED BY STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ILLINOIS. USE 5/8" PLYWOOD ROOF SHEATHING AND 5/8" GYPSUM BD. TYPE 'X' IN CONJUNCTION WITH TRUSSES.
18. ALL GLAZING SHALL BE PER CODE.
19. ALL CONTRACTORS SHALL CARRY WORKMANS COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE. THE OWNER SHALL MAINTAIN FIRE EXTENDED COVERAGE AND BUILDERS RISK INSURANCE.
20. PROVIDE 1/2" CEMENT BOARD IN TUB AND SHOWER WET WALLS WITH CERAMIC TILE OVER.
21. PROVIDE MIN 1/4" UNDERLAYMENT BOARD UNDER FLOOR AREAS THAT ARE TO HAVE FLOOR TILE.
22. APPROVED JOIST HANGERS ARE REQUIRED AS CONNECTORS.
23. ALL DUCTWORK IN UNHEATED SPACES TO BE INSULATED.
24. TEMPERED GLASS REQUIRED ON WINDOWS AND DOORS PER CODE.
25. ALL OUTLETS WITHIN 6' OF KITCHEN SINK MUST BE G.F.I.C. PROTECTED.
26. EVERY ENTRANCE TO EVERY HABITABLE ROOM AND HALLWAY MUST HAVE AN ACCESSIBLE LIGHT SWITCH TO A PERMANENT LIGHT FIXTURE OF ELECTRICAL OUTLET PER CODE.
27. ALL FIXTURES IN CLOTHES CLOSET MUST CONFORM TO CODE.
28. ALL PADDLE FAN INSTALLATION REQUIRE APPROVED TYPE CEILING BOXES.
29. ALL STRUCTURAL STEEL TO BE PROVIDED BY CLEO MANUFACTURING OR AN APPROVED SUBSTITUTE.
30. STAIRS TO COMPLY TO CODE.
31. ALL STAIR RISERS TO BE A MAX. 7 3/4" HIGH AND TREADS TO BE MINIMUM 10" DEEP PER CODE.

GENERAL CONCRETE NOTES

- 1. ALL FOOTINGS TO BE KEYPED 4" INTO UNDISTURBED SOIL OR COMPACTED FILL AT 95% COMPACTION PER ASTM D-1587.
2. ALL FOOTINGS TO BE DESIGNED FOR 3,000 PSF SOIL BEARING CAPACITY.
3. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ALL GOVERNING CODES AND ORDINANCES.
4. ALL REINFORCING BARS ARE TO BE ASTM GRADE 40.
5. ALL WELDED WIRE MESH TO CONFORM TO ASTM #16-6T.
6. ALL CONCRETE TO BE MIXED AND PLACED IN ACCORDANCE WITH ALL GOVERNING CODES AND ORDINANCES.
7. PROTECT ALL CONCRETE FROM ADVERSE WEATHER.
8. ALL EXPOSED CONCRETE TO HAVE 5% TO 1% AIR ENTRAINMENT.
9. CONCRETE TO BE READY-MIXED 3,000 PSF MINIMUM 28 DAY STRENGTH (5 BAG MIX) TO BE POURED CONTINUOUSLY WHENEVER POSSIBLE.
10. NO CONCRETE IS TO BE POURED INTO STANDING WATER OR ONTO FROZEN SUB-GRADE.
11. INTERIOR FLATWORK TO RECEIVE SMOOTH STEEL TROWEL FINISH. EXTERIOR FLATWORK TO RECEIVE A BROOM FINISH.
12. PROVIDE CONTROL JOINTS RADIATING OUT FROM ALL INTERIOR STEEL COLUMNS AND AS REQUIRED IN ALL LARGE POURS.
13. PROVIDE ALL GRANULAR FILL UNDER EXTERIOR STOODS.
14. PROVIDE 4" #4 HOOKED RODS IN WALLS WHERE FOOTING ELEVATIONS ARE NOT CONTINUOUS.
15. CONCRETE EXPOSED TO THE WEATHER TO BE 3,500 PSI.

GENERAL STEEL NOTES

- 1. STEEL WORK SHALL CONFORM TO THE CURRENT SPECIFICATIONS FOR THE DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AS ADOPTED BY THE A.I.S.C.
2. CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL CONFORM TO ASTM A325 AND BE 3/4" DIAMETER UNLESS NOTED OTHERWISE.
3. ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AASTM SPECIFICATIONS A-36. STEEL FOR PIPE COLUMNS SHALL BE OR EQUIVALENT CAPACITY TO ASTM SPECIFICATIONS A-501.
4. ALL STEEL FLITCH PLATES SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATIONS A-36 AND BE SHOP DRILLED FOR STAGGERED BOLTING.
5. ALL STRUCTURAL STEEL BEAMS, COLUMNS, FLITCH PLATES, BOLTS AND SHIMS SHALL HAVE A SHOP APPLIED COAT OF RUST INHIBITING PAINT.
6. STEEL FABRICATOR TO SUPPLY ALL NECESSARY BOLTS, FLANGES, SEAT ANGLERS AND SHIMS NECESSARY FOR PROPER INSTALLATION.
7. STEEL BASEMENT COLUMNS SHALL REST ON STACKED STEEL SHIMS NOT TO EXCEED 2" IN HEIGHT. SETTING STEEL COLUMNS ON CHUNKS OF BRICKS SHALL BE PROHIBITED.
8. ALL HOLES IN ALL CONNECTIONS SHALL RECEIVE A BOLT AND NUT AND ALL NUTS SHALL BE FIRMLY TIGHTENED PRIOR TO IMPOSING LOADING FROM ABOVE. MIS-ALIGNED CONNECTIONS SHALL BE FIELD-DRILLED AS REQUIRED TO INSERT ALL BOLTS OR BE FILED WELDED TO REPLACE SUCH BOLTS.

GENERAL PLUMBING NOTES

- 1. CLOSED WATER SYSTEM SHALL HAVE A PROPERLY SIZED THERMAL EXPANSION TANK LOCATED IN THE COLD WATER SUPPLY AS CLOSE TO THE WATER HEATER AS POSSIBLE.
2. NO MORE THAN SEVEN WATER SUPPLY FIXTURE UNITS SHALL BE SUPPLIED BY 1/2" PIPE IN A WATER SUPPLY SYSTEM USING FLUSH TANKS.
3. ALL SHOWERS AND TUB-SHOWERS COMBINATIONS SHALL BE PROVIDED WITH AN AUTOMATIC SAFETY WATER-MIXING DEVICE TO PREVENT EXCESSIVE SUDDEN TEMPERATURE CHANGES. THE VALUE SHALL COMPLY TO ANSI/ASSE 1016, 1996 IN ACCORDANCE TO SECTION 899-20 AND BE DESIGNED WITH A MAXIMUM HANDLE ROTATION LIMIT/STOP OR COMPLY WITH ASSE 1016-1998 SECTION 890-210. THE DEVICE SHALL BE SET TO A MAXIMUM 115 DEGREES F AT THE TIME OF INSTALLATION.
4. CLEANOUTS ARE REQUIRED AT EACH CHANGE OF DIRECTION OF THE HORIZONTAL BUILDING DRAINAGE SYSTEM GREATER THAN 60 DEGREES AND NOT MORE THAN 4' ABOVE THE BASE OF EACH VERTICAL WASTE STACK.
5. EXHAUST FANS ON THE FIRST FLOOR TO EXHAUST HORIZONTALLY TO EXTERIOR AND ON THE SECOND FLOOR UP THROUGH THE ATTIC TO ROOF VENT OR TO ROOF VENT.
6. A SEPARATE TRAP IS REQUIRED FOR KITCHEN SINK AND GARBAGE DISPOSAL.
7. TS AND CROSSBID ARE NOT ALLOWED.
8. A 3" FULL SIZE STACK IS REQUIRED FOR WATER CLOSETS UNLESS REVENTED BACK TO MAIN FULL SIZE STACK WITHIN 20'-0".
9. ALL FUTURE WASHROOMS AND PLUMBING FIXTURES ARE TO BE CAPPED OFF PROPERLY.
10. EXPOSED HOT WATER SUPPLY LINES SHALL BE INSULATED PER SECTIONS 403, 503 AND 504 OF THE IECC.
11. THE RIM TOP OF THE SUMP PIT IS A MINIMUM OF 2 INCHES ABOVE THE BASEMENT FLOOR.
12. REMOVE ALL EXISTING NON-COPPER WATER LINES.
13. HOT WATER PIPING SHALL BE INSULATED WITH R3 IF PIPE DIAMETER IS LARGER THAN 3/4".
14. PIPE IS SERVING MORE THAN ONE DWELLING UNIT. ENTIRE ROUTE FROM WATER HEATER TO KITCHEN FAUCETS PIPE IS OUTSIDE OF CONDITIONED SPACE. ENTIRE ROUTE FROM WATER HEATER TO DISTRIBUTION MANIFOLD, PIPE IS UNDER FLOOR SLAB OR BURIED.
15. PIPE RUN EXCEEDING 30 FT IF LARGES PIPE IS 3/8" DIA.
16. PIPE RUN EXCEEDING 20 FT IF LARGES PIPE IS 1/2" DIA.
17. PIPE RUN EXCEEDING 10 FT IF LARGEST PIPE IS 3/4" DIA.
18. PIPE RUN EXCEEDING 5 FT IF LARGEST PIPE EXCEEDS 3/4" DIA.

GENERAL EXCAVATION NOTES

- 1. ALL WORK SHALL CONFORM WITH ALL LOCAL CODES AND ORDINANCES.
2. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAIN EXCAVATION GRADES FROM A GRADE STAKE SHOWING TOP OF FOUNDATION ELEVATIONS. THIS GRADE STAKE SHALL BE OUTSIDE THE BUILDING AREA AND SHALL BE PROVIDED BY THE BUILDER.
3. STRIP BLACK DIRT FROM BUILDING ZONE AND FROM DRIVEWAY.
4. MACHINE EXCAVATE TO AN ELEVATION 6" BELOW THE PROPOSED TOP OF FOOTING ELEVATION TO ALLOW FOR THE FINAL 4" TO BE KEPT UNDISTURBED SOIL BY HAND BY OTHERS.
5. ALL MATERIAL GENERATED FROM THE EXCAVATION SHALL BE SPATTERED INTO HOMOGENEOUS STOCKPILES.
6. EXCAVATE AS REQUIRED PROVIDED 8" OF GRADE 3 STONE UNDER THE CMP CULVERT (IF ANY). INERTS OF CULVERTS SHALL CONFORM TO THE EXISTING FLOW LINE IN THE DITCHLINE AND SHALL BE 18" MINIMUM BELOW THE CROWN OF THE ROAD. SUBCONTRACTOR SHALL CHECK FOR PROPER FITCH AND DEPTH PRIOR TO FILLING STONE OVER HE PIPE INSTALLATION OF A DRIVEWAY WITH A HUMP OVER THE CULVERT PIPE SHALL BE PROHIBITED.
7. PRESUMPTIVE SOIL BEARING CAPACITY IS 3,000 PSF ON UNDISTURBED SOIL. IF AT PLAN DEPTH A QUESTIONABLE SOIL CONDITIONS ENCOUNTERED, SUBCONTRACTOR SHALL CONSULT WITH BUILDER OR BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH EXCAVATING DEEPER THAN PLAN.
8. NO EXCAVATION SHALL BE MADE WHOSE DEPTH BELOW THE FOOTING IS GREATER THAN 1/2 THE HORIZONTAL DISTANCE FROM THE NEAREST EDGE OF THE FOOTING.
9. ALL BACKFILL AT STOODS, SLABS, STEPS AND PAVEMENTS SHALL BE CLEAN GRANULAR FILL. PLACE IN 8" LAYERS AND COMPACT TO 95% MAXIMUM DRY DENSITY PER ASTM D-1587 OR PROVIDE ALL SELF-COMPACTING PER GRAVEL MATERIAL.
10. ALL SLABS ON GRADE SHALL BEAR ON MECHANICALLY COMPACTED CRUSHED STONE OR SELF COMPACTING PER GRAVEL CAPABLE OF SUPPORTING 1,000 PSF.
11. BACKFILL SHALL BE BROUGHT UP EQUALLY ON EACH SIDE OF WALLS AND EQUALLY AROUND ALL SIDES OF THE BUILDING.
12. ONLY RUBBER Tired MACHINES MAY DRIVE ON EXISTING PAVEMENT AT STREET. LOADING AND UNLOADING OF METAL TRACK MACHINES SHALL BE MADE ON-SITE OR THE SUBTRACTION SHALL BE RESPONSIBLE FOR DAMAGES THAT MIGHT OCCUR.
13. SUBTRACTOR AND/OR BUILDER SHALL CALL JULIE AT LEAST 48 HOURS PRIOR TO THE START OF ANY DIGGING OPERATIONS OR BE HELD RESPONSIBLE FOR ANY REPAIRS TO UNDERGROUND UTILITY LINES DAMAGED OR DESTROYED IN THE PROCESS.
14. ANY EXISTING FILED TILES, WHETHER FLOWING OR NOT, SEVERED DURING THE EXCAVATION PHASE SHALL BE IMMEDIATELY MARKED SO AS TO ALLOW FOR THE PROPER RE-CONNECTION AROUND THE FOUNDATION IN CONFORMANCE WITH STATE DRAINAGE LAWS.

GENERAL ELECTRICAL NOTES

- 1. LIGHTS ABOVE TUBS, SHOWERS & SAUNA SHALL BE GFC PROTECTED.
2. SMOKE DETECTORS SHALL BE ON A DEDICATED CIRCUIT IN DEDICATED CONDUIT.
3. THE WHIRLPOOL SHALL BE BONDED TO THE WATER SUPPLIES.
4. BEDROOM RECEPTACLES CIRCUITS SHALL BE ARC FAULT PROTECTED.
5. ALL RECEPTACLES SHALL BE AUTO GROUND OR HAVE A BONDING JUMPER INSTALLED.
6. ALL CEILING BOXES IN HABITABLE SPACES SHALL BE FAN RATED.
7. RECEPTACLES ABOVE KITCHEN COUNTERS SHALL BE INSTALLED A MAXIMUM OF 2'-0" FROM EVERY CORNER AND 4'-0" THERE AFTER.
8. INCANDESCENT CLOSET LIGHTS SHALL BE INSTALLED A MINIMUM OF 12". (FLUORESCENT ARE RECESSED 6" FROM THE VERTICAL PLANE OF THE NOSING OF THE CLOSET SHELF).
9. RECESSED LIGHTS SHALL BE "IC" TYPE.
10. ALL 125 VOLT, SINGLE PHASE, 15 40 AMP RECEPTACLES INSTALLED IN KITCHEN TO SERVE COUNTER TOPS SURFACES SHALL HAVE GFI PROTECTIONS.
11. ALL SMOKE DETECTORS TO BE INTERCONNECTED ACTIVATION ONE ALARM AND ALL OTHERS WILL ACTIVATE. ALL SMOKE DETECTORS TO BE BATTERY BACK-UP.
12. ALL CLOSET LIGHTS TO BE IN PER CODE.
13. RECESSED FIXTURES INSTALLED IN BUILDING ENVELOPE TO BE IC RATED OR INSTALLED IN SEALED BOX WITH MIN 1/2" WALL BOARD.
14. PLEASE NOTE THAT ALL WIRING 25 VOLTS OR GREATER IN NEW CONSTRUCTION SHALL BE CONVEYED THROUGH RIGID METAL CONDUIT. PVC NOT ALLOWED.
15. EVERY ENTRANCE TO EVERY HABITABLE ROOM AND HALLWAY MUST HAVE AN ACCESSIBLE LIGHT SWITCH TO PERMANENT LIGHT FIXTURE OR ELECTRICAL OUTLET.
16. GARAGE ON SEPARATE 20 AMP CIRCUIT.
17. ALL EXHAUST FANS TO EXHAUST DIRECTLY TO EXTERIOR.
18. ANY POINT ALONG THE WALL OF A LIVABLE AREA SHALL NOT BE MORE THAN 6' FROM AN OUTLET. EACH WALL SPACE TO BE TREATED INDIVIDUALLY.
19. THERE SHALL BE NO MORE THAN TEN RECEPTACLES INSTALLED ON A FIFTEEN AMP BRANCH CIRCUIT AND NO MORE THAN 15 RECEPTACLES INSTALLED ON A 20 AMP BRANCH CIRCUIT.
20. GROUND BUSHINGS OR LOCKNUTS SHALL BE USED IN METER FITTING AND CIRCUIT BREAKER PANEL - NO EXCEPTIONS.
21. ALL LOW VOLTAGE WIRING - PHONE, DOORBELL, THERMOSTAT, FIRE AND BURGLAR ALARM - SHALL BE INSTALLED IN CONDUIT WHERE SUCH WIRING WILL BE RENDERED INACCESSIBLE BY FINISHED MATERIAL OR WHERE SUBJECT TO PHYSICAL DAMAGE.
22. THE CIRCUIT BREAKER PANEL MOUNTED TO THE CONCRETE FOUNDATION WALL TO HAVE PLYWOOD BETWEEN THE WALL AND THE PANEL.
23. ALL 120 VOLT, SINGLE PHASE, 15-20 AMPERE RECEPTACLES INSTALLED IN BEDROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DEN, SUNROOMS, REC ROOMS, CLOSETS, HALLWAYS, OR SIMILAR SHALL BE INSTALLED WITH AN ARC FAULT CIRCUIT INTERRUPTER PER CODE.
24. ALL 125 VOLT, 15-20 AMPERE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES.
25. ONE CARBON MONOXIDE WITHIN 15 FEET OF ANY SLEEPING AREA WITHIN DWELLING UNIT.

GENERAL MECHANICAL NOTES

- 1. CONTRACTORS SHALL VISIT JOB SITE PRIOR TO BIDDING AND VERIFY ALL EXISTING CONDITIONS IN FILED AND INCORPORATE ALL REQUIRED CHANGES IN HIS BID TO PROVIDE A COMPLETE OPERATING SYSTEM. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT. CONTRACTOR SHALL MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED AND SHALL EXAMINE PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, ETC.
2. WHERE THE EXISTING PIPING OR DUCTWORK SERVING AN EXISTING MECHANICAL EQUIPMENT IN AREA OF THE EXISTING BUILDING NOT BEING ALTERED IS INTERFERED WITH, CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH PIPES OR DUCTWORK.
3. EVERY EFFORT HAS BEEN MADE TO LOCATE, IDENTIFY AND IN SOME CASES, INDICATE THE SIZES OF EXISTING BUILDING UTILITIES AND SYSTEMS. HOWEVER, NOT EVERY FIXTURE, PIPE, DUCT, CONDUIT, ETC. REQUIRED TO BE REMOVED OR RELOCATED IS NECESSARILY SHOWN OR KEY NOTED. THE CONTRACTOR SHALL REMOVE OR RELOCATE EXISTING ITEMS AS REQUIRED TO ACHIEVE THE INTENT OF THE DOCUMENTS OR TO ACCOMMODATE NEW FIXTURES, PIPE, DUCT, CONDUIT, ETC. AS INDICATED BY THE DOCUMENTS AT NO ADDITIONAL COST TO OWNER REFER ALSO TO ALL OTHER SHEETS IN THIS SET OF DOCUMENTS FOR RELATED INFORMATION.
4. THE ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIONAL AND ACCEPTANCE BY THE OWNER/ENGINEER SHALL BE A CONDITION OF THE CONTRACT.
5. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCE, PRESERVE HEADROOM, AVOID OMISSION AND COORDINATE DIFFUSES LOCATIONS WITH REFLECTIVE CEILING PLAN.
6. DUCTWORK AND PIPING SHALL BE CONCEALED WHERE POSSIBLE, RUN IN STRAIGHT LINES PARALLEL AND/OR PERPENDICULAR TO THE BUILDING CONSTRUCTION AS HIGH AS POSSIBLE.
7. THIS CONTRACTOR SHALL INCLUDE ALL MISCELLANEOUS ITEMS REQUIRED TO COMPLETE THE WORK INCLUDING MOVING AND RIGGING OF MATERIALS AND EQUIPMENT, HANGERS, SUPPORTS, STRUCTURAL FRAMING CHANGES, ANCHORS, INCLUDING FIRE DAMPERS AS REQUIRED BY LOCAL CODES, FITTINGS SLEEVES AND DRAIN PIPING.
8. ALL MATERIAL, WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE YEAR AFTER SYSTEM ACCEPTANCE. PROVIDE TYPEWRITTEN OPERATING INSTRUCTIONS AND EQUIPMENT WARRANTIES. AS A PART OF THIS CONTRACT, THE CONTRACTOR SHALL PROVIDE A ONE YEAR SERVICE AND MAINTENANCE AGREEMENT.
9. FLEXIBLE DUCTWORK SHALL BE UL 181 TYPE AS APPROVED BY CODE AND SHALL HAVE MAXIMUM LENGTH OF 4'-0" AS MANUFACTURED BY THE MANUFACTURER.
10. ALL DUCTWORK SHALL BE CONSTRUCTED WITH GALVANIZED SHEET METAL IN ACCORDANCE WITH STATE AND LOCAL CODES, ASHRAE STANDARDS, SMACNA STANDARD AND NFPA.
11. ALL DUCTWORK PENETRATING A DESIGNATED SMOKE OR SMOKE/FIRE WALL SHALL BE FURNISHED WITH UL APPROVED MOTORIZED SMOKE DAMPERS.
12. ELECTRICAL CONTRACTOR AND MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION OF SMOKE DETECTORS SO THAT ALL DETECTORS ARE LOCATED BEYOND THE CODE PRESCRIBED SEPARATION FROM ANY SUPPLY OR RETURN DIFFUSER/REGISTER.
13. COORDINATE ALL SYSTEM SHUTDOWNS WITH BUILDING OWNERS WORKING DAYS IN ADVANCE.

GENERAL NOTES

RECESSED FIXTURES INSTALLED IN BUILDING ENVELOPE TO BE IC RATED OR INSTALLED IN SEALED BOX WITH MINIMUM 1/2" WALL BOARD

GLAZING: MAXIMUM GLAZING U-FACTOR IS 0.32 FOR CLIMATE ZONE 14, LAKE COUNTY ILLINOIS

TEMPERED GLASS IS REQUIRED IN THE FOLLOWING LOCATIONS: DOORS, VISION PANELS ADJACENT TO DOORS, ENCLOSURES FOR TUBS AND SHOWERS, PANES GREATER THAN 9 SQUARE FEET WITH LOWER EDGE LESS THAN 18" ABOVE FLOOR.

DOUBLE-WIRE JOINT REINFORCEMENT ABOVE CORNERS OF MASONRY OPENING EXTENDING 12" ABOVE EACH SIDE.

FLASHING SHALL BE LOCATED BENEATH THE FIRST MASONRY COURSE ABOVE THE FINISHED GRADE LEVEL ABOVE FOUNDATION WALL OR SLAB, AND OTHER POINTS OR SUPPORT, INCLUDING STRUCTURAL FLOORS, BEARING ANGLE AND LINTELS.

ALL SHEAR PARTITIONS WITH PIPES LARGER THAN 3/4" AND ALL NON-BEARING PARTITIONS WITH PIPES LARGER THAN 1 1/4" SHALL BE INCREASED TO A MINIMUM OF 2 X 6 WALL.

ALL RAIN WATER FROM ALL BUILDING AND STRUCTURAL ROOFS SHALL BE COLLECTED BY GUTTERS OR DRAINPIPES WHICH DISCHARGE INTO DOWNSPOUTS ONTO A HARD SURFACE.

INSTALL PASSIVE RADON RESISTANT SYSTEM PER APPENDIX "F" OF THE IRC AND EPA SUGGESTED DESIGN.

ALL THERMOSTATS TO BE PROGRAMMABLE

ATTIC ACCESS DOORS OR HATCHES MUST BE WEATHER-STRIPPED AND INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES

A MINIMUM OF 15 PERCENT OF THE LAMP'S IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH EFFICIENCY LAMPS OR A MINIMUM OF 15 PERCENT OF PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH EFFICIENCY LAMPS.

MINIMUM GLAZING FOR SKYLIGHTS .40

THE BUILDING SHALL BE TESTED AND VERIFIED AS HAVING AIR LEAKAGE NOT EXCEEDING 3 CHANGES PER HOUR AFTER CREATION OF ALL PENETRATIONS FO THE BUILDING ENVELOPE. TESTING SHALL BE CONDUCTED WITH BLOWER DOOR AT A PRESSURE OF 50 PASCALS. A WRITTEN AIR LEAKAGE REPORT SHALL BE PROVIDED TO THE CODE OFFICIAL.

FENESTRATION SHALL BE LISTED AND LABELED BY MANUFACTURE. THE MAXIMUM AIR INFILTRATION OF WINDOWS SKYLIGHTS AND SLIDING GLASS DOOR IS 0.3 CFM PER SQUARE FOOT. MAXIMUM AIR FILTRATION OF SWINGING DOORS IS 0.5 CFM PER SQUARE FOOT.

A PERMANENT CERTIFICATE SHALL BE COMPLETED AND POSTED ON OR IN ELECTRICAL DISTRIBUTION PANEL BY THE BUILDER OR REGISTERED DESIGN PROFESSIONAL. IT SHALL LIST THE FOLLOWING:

- 1. PREDOMINANT R-VALUES OF INSULATION INSTALLED IN OR ON CEILING/ROOF, WALLS, FOUNDATION WALL, SLAB, BASEMENT WALL, CRAWLSPACE WALL AND /OR FLOOR, DUCTS OUTSIDE CONDITIONED SPACES
2. U FACTORS OF FENESTRATION
3. RESULTS OF ANY REQUIRED DUCT SYSTEM, AND BUILDING ENVELOPE AIR LEAKAGE TEST, LIST TYPES AND EFFICIENCIES OF HEATING, COOLING AND SERVICE WATER HEATING EQUIPMENT AIR BARRIER SHALL BE INSTALLED ON FIREPLACE WALLS. FIREPLACES SHALL HAVE GASKETED DOORS

BLOWN IN OR SPRAYED ROOF/CEILING INSULATION SHALL BE WRITTEN IN INCHES ON MARKERS THAT ARE INSTALLED AT LEAST ONE FOR EVERY 300 SQUARE FEET THROUGH THE ATTIC SPACE. THE MARKERS SHALL BE AFFIXED TO TRUSSED OR JOISTS.

FOR BLOWN IN OR SPRAYED INSULATION (FIBERGLASS AND CELLULOSE) INSTALLERS CERTIFICATION SHALL BE INCLUDE INSTALLED THICKNESS, SETTLED R-VALUE, INSTALLED DENSITY. COVERAGE AREA AND NUMBER OF BAGS SHALL BE LISTED ON CERTIFICATION.

FOR SPRAYED POLYURETHANE FOAM INSULATION THE INSTALLED THICKNESS OF THE AREAS COVERED AND R-VALUES OF INSTALLED THICKNESS SHALL BE POSTED ON THE CERTIFICATION. THE INSULATION INSTALLER SHALL SIGN DATE AND POST THE CERTIFICATION ON THE JOB SITE.

PASSIVE RADON CONTROL SYSTEM BEING USED

CRIPPLE WALL STUDS SHORTER THAN 4' MUST BE SHEATHED WITH A WOOD STRUCTURAL PANEL, FASTENED TO BOTH TOP AND BOTTOM PLATES.

BRACED WALL LINES SHALL BE LOCATED NOT MORE THAN 25 FT O.C. AND BE PERMITTED TO BEGIN NO MORE THAN 12.5 FT FROM THE END OF THE BRACED WALL LINE

TOTAL COMBINED DISTANCE FROM EACH END OF BRACED WALL LINE TO NEAREST BRACED WALL PANEL IN THIS LINE SHALL NOT EXCEED 12.5 FT.

WHERE A 4-FOOT PANEL CANNOT BE PROVIDED WITH 12.5 FEET FROM THE WALL CORNER PROVIDE ALTERNATE BRACED WALL PANEL DESIGN.

A BRACED WALL PANEL MAY BE OFFSET OUT OF PLANE UP TO 4 FT PROVIDED THAT A TOTAL CUT TO CUT OFFSET WITHIN ONE BRACED WALL LINE DOES NOT EXCEED 8 FT.

A MINIMUM OF 18" OF BRICK VENEER IS REQUIRED ON EACH SIDE OF OPENING SPANNED BY LINTEL

DOUBLE - WIRE JOINT REINFORCEMENT ABOVE CORNERS OF MASONRY OPENINGS EXTENDING MINIMUM 12" BEYOND EACH SIDE OF OPENING

RAFTERS AND CEILING JOISTS LARGER THAN 2 X 10 REQUIRED LATERAL SUPPORT AT POINTS OF BEARING.

ELEMENTS TO BE SEALED

BREAKS IN JOINTS IN THE AIR BARRIER ACCESS OPENINGS DROP DOWN STAIR OF KNEE WALL DOORS TO UNCONDITIONED ATIC SPACE
JUNCTION OF TOP PLATE AND TOP OF EXTERIOR WALL
JUNCTION OF FOUNDATION SILL PLATE
KNEE WALLS
SPACE BETWEEN WINDOW/DOOR JAMBS AND FRAMING
SPACE BETWEEN SKYLIGHT AND FRAMING
DUCT SHAFTS UTILITY PENETRATIONS AND FLUE SHAFTS OPENING TO EXTERIOR UNCONDITIONED SPACE
RECESSED LIGHT FIXTURES (AIRTIGHT, IC RATED)
HVAC REGISTER BOOTS THAT PENETRATE ENVELOPE
DUCTS, AIR HANDLERS AND FILTER BOXES
JOISTS AND BEAMS IN HVAC DUCTWORK
WALL CEILING AND DOOR BETWEEN GARAGE AND CONDITIONED SPACE

INSULATION & AIR NOTES

FOR BLOWN INSULATION OR SPRAYED INSULATION (FIBERGLASS AND CELLULOSE) INSTALLERS CERTIFICATION SHALL INCLUDE INSTALLED THICKNESS, SETTLED THICKNESS, SETTLED R-VALUE, INSTALLED DENSITY. COVERAGE AREA AND NUMBER OF BAGS SHALL BE LISTED ON CERTIFICATION.

FOR SPRAYED POLYURETHANE FOAM INSULATION THE INSTALLED THICKNESS OF THE AREAS COVERED AND R-VALUE OF INSTALLED THICKNESS BE POSTED ON THE CERTIFICATION. THE INSULATION INSTALLER SHALL SIGN AND DATE AND POST THE CERTIFICATION ON THE JOB SITE.

BLOWN IN OR SPRAYED ROOF/CEILING INSULATION SHALL BE WRITTEN IN INCHES ON MARKERS THAT ARE INSTALLED AT LEAST ONE FOR EVERY 300 SQ. FT. THROUGH OUT THE ATTIC SPACE. THE MARKERS SHALL BE AFFIXED TO TRUSSES OR JOISTS.

A PERMANENT CERTIFICATE SHALL BE POSTED SHALL BE POSTED ON OR IN THE ELECTRICAL DIST PANEL BY THE BUILDER. IT SHALL LIST THE FOLLOWING.

PREDOMINANT R-VALUE OF INSULATION INSTALLED IN OR ON CEILING/ROOF, WALLS, FOUNDATION WALL, SLAB, BASEMENT WALL, CRAWLSPACE WALL AND OR FLOOR, DUCTS OUTSIDE CONDITIONED SPACES AND U-FACTORS OF FENESTRATION.

RESULTS OF ANY REQUIRED DUCT SYSTEM, AND BUILDING ENVELOPE AIR LEAKAGE TEST, LIST TYPES AND EFFICIENCIES OF HEATING COOLING AND SERVICE WATER HEATING EQUIPMENT.

AIR BARRIER SHALL BE INSTALLED ON FIREPLACE TO HAVE GASKETED DOORS - FLUE TO BE WITH TIGHTFITTING DAMPER AND OUTDOOR COMBUSTION AIR.

THE FENESTRATION SHALL BE LISTED AND LABELED BY MANUFACTURE. MAXIMUM AIR INFILTRATION OF SWINGING DOORS IS .5 CFM PER SQ. FT.

THE BUILDING SHALL BE TESTED AND VERIFIED AS HAVING AIR LEAKAGE NOT EXCEEDING THREE CHANGES PER HOUR AFTER CREATION OF ALL PENETRATIONS OF THE BUILDING THERMAL ENVELOPE. TESTING SHALL BE CONDUCTED WITH BLOWER DOOR AT A PRESSURE OF 50 PASCALS. A WRITTEN AIR LEAKAGE REPORT SHALL BE PROVIDED TO THE CODE OFFICIAL.

DUCT TIGHTNESS TEST SHALL BE EITHER POST CONSTRUCTION OR ROUGH-IN TEST (LEAKAGE LESS THAN OR EQUAL TO 4 CFM PER 100 SQ. FT. AT A PRESSURE DIFFERENTIAL 0.1 INCH W.G. (25 PASCALS))

AIR HANLER MANUFACTURER TO CONFIRM AIR LEAKAGE OF NOT MORE THAN 2%

OUTDOOR AIR INTAKES AND EXHAUSTS SHALL HAVE AUTOMATIC OR GRAVITY DAMPERS THAT CLOSE WHEN VENTILATION SYSTEM IS NOT OPERATING.

JOSEPH A. MEYER STRUCTURAL & PROFESSIONAL ENGINEER 135 PARK AVE. BARRINGTON IL, 60010 847-383-0200

RESIDENTIAL REMODEL FOR: ST. MARK'S RECTORY 337 RIDGE ROAD BARRINGTON HILLS ILLINOIS 60010

DATE NOV 13, 2015 REVISION DEC 15, 2015

JOB # SHEET # A5





John A. Raber & Associates, Inc.

4314-A Crystal Lake Rd • McHenry, IL 60050 • voice 815.344.4020 • fax 815.344.2208 • johnraber.com

Mold Inspections
Radon Testing - Soil Suitability
Well and Septic Evaluations

December 29, 2015

Peder Finnberg
PAF/ Heritage Land Consultants, LLC
758 Ridgeview Drive
McHenry, Illinois 60050

Re: 337 Ridge Road, Barrington Hills

Dear Mr. Finnberg:

The soil analysis for septic suitability on the above referenced property has been completed.

Three (3) borings were made at the proposed septic location.

The slope at Boring #1 was 2%, Boring #2, 2%, and Boring #3, 4%.

Depth to seasonally high water table was >60 inches at Boring #1, >60 inches at Boring #2, 38 inches at Boring #3.

This is the depth at which the fluctuating water table reaches during the wettest season of the year.

No limiting permeability was found at Boring #1, Boring #2 or Boring #3.

The soil profiles taken by John A. Raber & Assoc., Inc., indicate only the soil characteristics present in the area reviewed at the time it was made. These soil profile descriptions are intended solely to permit evaluation by an engineer or local governmental authority to determine the suitability of the site for construction of an on-site wastewater disposal system. John A. Raber & Assoc. Inc. does not evaluate the suitability of the soils and makes no representation as to the suitability of the site.

Sincerely,

JOHN A. RABER & ASSOC., INC.

Bruce J. Houghtby, C.P.S.S./S.C.
Soil Scientist/Classifier

mjo
enc.

LOCATION: 337 Ridge Rd., Barrington Hills, St. Mark's Episcopal

PIN#

TOWNSHIP: Cuba

NEW CONSTRUCTION: REPAIR: PROPERTY ALTERATION: COUNTY: Lake FILE # 2543/15

BORING # 1 SOIL SERIES: Zurich OBSERVED WATER: None SOIL RESOURCE GROUP: B

DEPTH TO SEASONALLY HIGH WATERTABLE: >60 DEPTH TO LIMITING LOADING RATE: >60 ASPECT/SLOPE SW2%

HORIZON	DEPTH	DMNT.COLOR	REDOX	COATINGS	STRUCTURE	TEXTURE	CONSISTENCE	LOADING/PERMEABILITY
A	0-8	10yr4/3			2 vfsbk	sil	Friable	.75
Bt1	8-26	10yr4/6		m 10yr4/4cf	2 f&msbk	sicl	Friable	.62
Bt2	26-36	10yr6/6		c 10yr5/4cf	2 vfpr	sicl	Friable	.62
C	36-60	10yr6/6			massive	sil	Friable	.45

INTERNAL DRAINAGE: Well

DEPTH OF COMPACTED LAYERS: None

BORING # 2 SOIL SERIES: Zurich OBSERVED WATER: None SOIL RESOURCE GROUP: B

DEPTH TO SEASONALLY HIGH WATERTABLE: >60 DEPTH TO LIMITING LOADING RATE: >60 ASPECT/SLOPE: SW2%

HORIZON	DEPTH	DMNT.COLOR	REDOX	COATINGS	STRUCTURE	TEXTURE	CONSISTENCE	LOADING/PERMEABILITY
A	0-9	10yr4/3			2 vfsbk	sil	Friable	.75
Bt1	9-31	10yr4/6		m 10yr4/4cf	2 f&msbk	sicl	Friable	.62
Bt2	31-47	10yr6/6		m 10yr5/3cf	2 vfpr	sicl	Friable	.62
C	47-60	10yr6/6			massive	sil	Friable	.45

INTERNAL DRAINAGE: Well

DEPTH OF COMPACTED LAYERS: None

JOHN A. RABER & ASSOCIATES, INC.
4314-A CRYSTAL LAKE ROAD
MCHENRY, ILLINOIS 60050
(815) 344-4020
TEST DATE: 12/29/15



Bruce J. Houghtby

Bruce J. Houghtby, C.P.S.S./S.C.
ARCPACS No. 1530
ISCA No. 51

BORING # 3

SOIL SERIES: Zurich

OBSERVED WATER: None

SOIL RESOURCE GROUP: B

DEPTH TO SEASONALLY HIGH WATERTABLE: 38"

DEPTH TO LIMITING LOADING RATE: >60

ASPECT/SLOPE S4%

HORIZON	DEPTH	DMNT.COLOR	REDON	COATINGS	STRUCTURE	TEXTURE	CONSISTENCE	LOADING PERMEABILITY
A	0-10	10yr4/3			2 vfsbk	sil	Friable	.75
Bt1	10-29	10yr4/6		m-10yr4/4cf	2 f&msbk	siel	Friable	.62
Bt2	29-38	10yr6/6		m 10yr5/3cf	2 vfpr	siel	Friable	.62
C	38-60	10yr6/6	c3 10yr6/2		massive	sil	Friable	.45

INTERNAL DRAINAGE: Moderately Well

DEPTH OF COMPACTED LAYERS: None

JOHN A. RABER & ASSOCIATES, INC.
 4314-A CRYSTAL LAKE ROAD
 MCHENRY, ILLINOIS 60050
 (815) 344-4020

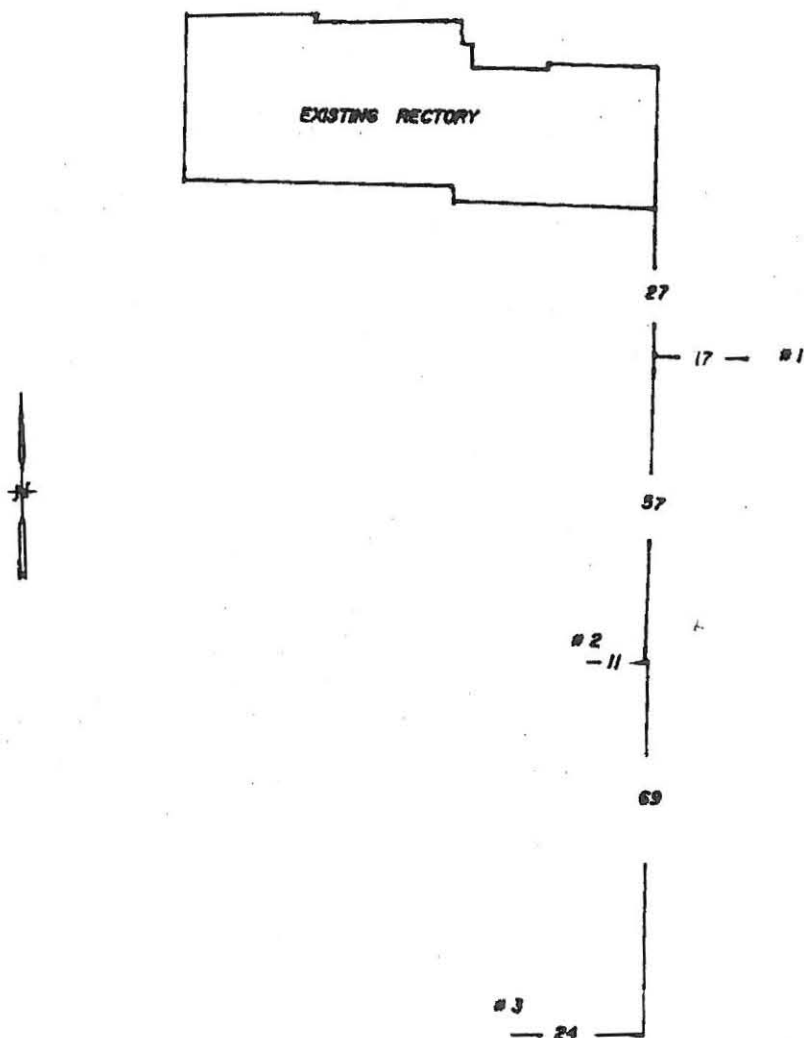
TEST DATE: 12/29/15



Certified Professional
 Soil Classifier
 BRUCE HOUGHTBY
 01530

Bruce J. Houghtby, C.P.S.S./S.C.
 ARCPACS No. 1530
 ISCA No. 51

337 RIDGE ROAD
BARRINGTON HILLS
CUBA TOWNSHIP



JOHN A. RABER & ASSOC. INC.
4314-A CRYSTAL LAKE ROAD
McHENRY, IL. 60050
815-344-4020
soils@johnraber.com

PREPARED BY BRUCE J. HOUGHTBY
CERTIFIED PROFESSIONAL
SOIL SCIENTIST/SOIL CLASSIFIER
SSSA No. 01530 ISCA No. 51

PAF/HLC
 758 Ridgeview Drive
 McHenry, IL 60050

Client: St. Mark's Ch.
 PAF/HLC 15-275
 Date: 1/11/2016
 Location: Vlg. Barr. Hills

Lift Station Pump Calculations

1) Calculate Dosing Quantity= 1/4 Daily Flow + Water In Discharge Pipe

Pipe Daily Flow = 3 200.00 600
 1/4 of Daily Flow = 150 Gallons
 Size of Pipe = 1.5 Length of Pipe = 15 x Void Volume
0.092 = 1.38 Gallons In Discharge Pipe. Total Dosing
 Quantity = 151.38 Gallons 151.38 Gallons Per Dose/ 226
 Gallons Per Foot of Depth In A 1000 Gallon Lift Station.
 = 0.67 Feet Deep

2) Calculate Total Head Loss

A) Vertical Head = Base of Pump to Overflow of Highest Drop Box

A) 818.3 - 810 = 8.3

B) Friction Loss In Discharge Pipe

1 1/2 in. pipe = (0.015) x 0.15 15 Feet

B)= 0.02

2 in. Pipe = (0.0181) x Feet

B)= 0.00

C) Assigned Distal Pressure

C)= 2.00

15.00

D) Total Feet of Head

a) 8.30 + b) 0.02 + c) 2.00
 = 10.32

3) Select Pump:

A Champion CPE 4 Septic Effluent Pump

@ 10.32 Total Head Will Pump 15 GPM

(not less than 10 GPM nor more than 45 GPM)

Pump Floats Will Be Set To Pump 0.67 Feet of Effluent



Heritage Land Consultants, LLC
HLC Surveying – HLC Engineering – HLC Septic Design
Office: 758 Ridgeview Drive, McHenry, IL 60050

Tel: 815-344-3252 Fax: 815-344-3257
Website: www.heritagelandconsultants.com



April 6, 2016

Re: Septic Design Revision
St. Marks Rectory
337 Ridge Road
PAF/HLC Job # 15-275

Gewalt Hamilton & Associates
Mr. Daniel J. Strahan
625 Forest Edge Drive
Vernon Hills, Il. 60061

Gewalt Hamilton
APR 11 2016
Associates, Inc.

Dear Mr. Strahan:

Transmitted herewith is one revised print of the septic system design for the above referenced property. This print reflects changes requested by you for the appropriate permit: We have responded to all 6 comments in your review letter. The attached calculation sheet shows how we arrived at the 100% expansion for the church septic system.

Please contact me in this office if you have any questions regarding this transmittal. Thank you.

Respectfully,

A handwritten signature in black ink, which appears to read 'Peder A. Finnberg'. The signature is written in a cursive style with a large, sweeping 'P' and 'F'.

Peder A. Finnberg

cc: w/2 prints
Wendi Frisen-Vlg. of Barrington Hills
w/2 prints
Client



SURVEYING - ENGINEERING
LAND PLANNING - SEPTIC DESIGN

758 RIDGEVIEW DRIVE
MCHENRY, ILLINOIS 60050
(815)-344-3252

PAF
SEPTIC DESIGN

JOB NO. 15-275
CLIENT ST MARKS
DATE: 4/8/16
CALC. BY PAF
SCALE _____

CHURCH SEPTIC SYSTEM

WE HAVE SHOWN 1000 L.F. TRENCH

SHOULD WE NEED FUTURE EXPANSION
WE WOULD

- (A) INTRODUCE A CLASS I Aeration Unit
reducing the required field to be
834 L.F. & THEREFORE THE FUTURE
EXPANSION TO BE 834 L.F. (TOTAL 1668 L.F.)
- (B) WE RELOCATED 40 L.F. of the existing
field & negated 40 L.F. of the existing
field leaving 960 L.F.
- (C) WE HAVE SHOWN 806 PROPOSED FUTURE
EXPANSION (WHILE 703 L.F. SHOULD SUFFICE)

February 23, 2016

625 Forest Edge Drive, Vernon Hills, IL 60061

TEL 847.478.9700 ■ FAX 847.478.9701

www.gha-engineers.com

Mr. Robert Kosin
Barrington Hills Village Hall
112 Algonquin Road
Barrington Hills, IL 60010

Dear Mr. Kosin,

We are enclosing the results of the water quality monitoring performed by McHenry Analytical Water Laboratory, as part of the comprehensive water quality monitoring effort by the Flint & Spring Creek Watershed Partnerships, and Citizens for Conservation. This annual monitoring is performed to ensure that the Village of Barrington Hills remains in compliance with the requirements of the National Pollutant Discharge Elimination System (NPDES) General Stormwater Permit ILR40 for discharges from Small Municipal Separate Storm Sewer Systems (MS4s), and to determine if the best management practices (BMPs) being performed by the Village are helping to improve water quality within the receiving waters.

The most recent version of the ILR40 permit expired on March 31, 2014, but has been administratively continued by the IEPA. The new draft version of the permit states that: "At a minimum, analysis shall include the following parameters: total suspended solids, total nitrogen, total phosphorus, fecal coliform, and chlorides, and oil and grease". Fecal coliform and oil/grease were added as new parameters this year in anticipation of the final permit.

Also enclosed is a report produced by Gewalt Hamilton Associates, Inc. (GHA) containing maps of the monitoring sites, a comparison of upstream and downstream results, graphs which summarize and compare results from the previous years, and recommendations for stormwater BMPs to improve the quality of stormwater runoff within the Village.

Should you have any questions, please do not hesitate to contact me at cburke@gha-engineers.com or at (847) 821-6256.

Sincerely,
GEWALT HAMILTON ASSOCIATES, INC.



Caitlin Burke
Environmental Consultant



WATER QUALITY REPORT

February 2016



Village of Barrington Hills

GHA Project No. 9355.090



Prepared by
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TABLE OF CONTENTS

Section 1

Executive Summary

Section 2

Program Overview

Section 3

Testing Locations

Section 4

Results and Recommendations

Section 5

Appendix

Section 1
Executive Summary

BACKGROUND

This water quality test analysis was developed for the Village of Barrington Hills for the purpose of demonstrating compliance with the minimum standards required by the Illinois Environmental Protection Agency (IEPA) General Storm Water Permit ILR40 for discharges from Small Municipal Separate Storm Sewer Systems (MS4s). The most recent version of the ILR40 permit expired on March 31, 2014, but has been administratively continued by the IEPA.

NOTE: The new *draft* version of the permit states that: “At a minimum, analysis shall include the following parameters: total suspended solids, total nitrogen, total phosphorus, fecal coliform, chlorides, and oil and grease”. Fecal coliform and oil and grease have been added to the list of parameters in anticipation of the final permit.

Test results obtained through this project were compared against the Water Quality Standards (WQS) established by the Illinois Pollution Control Board (IPCB) under Title 35 of the Illinois Administrative Code; *Standard Methods for the Examination of Water and Wastewater*, a joint publication of the American Public Health Association (APHA), American Water Works Association (AWWA), and the Water Environment Federation (WEF); or *Volunteer Stream Monitoring: A Methods Manual*, published by the United States Environmental Protection Agency, Office of Water.

Extensive water quality testing was performed as part of a Water Quality Monitoring Plan, developed for Flint Creek Watershed Partnership, Spring Creek Watershed Partnership, and Citizens for Conservation. The Water Quality Monitoring Plan was completed in February 2015, and subsequently approved by the IEPA.

Parameters

Lab Analyses

1. Ammonia
2. Biochemical Oxygen Demand (BOD)
3. Chloride
4. Fecal Coliform*
5. Fluoride
6. Oil & Grease*

7. Total Dissolved Solids (TDS)
8. Total Kjeldahl Nitrogen (TKN)
9. Total Phosphorous (TP)
10. Total Suspended Solids (TSS)
11. Phenolics
12. Potassium

Field Analyses

13. Conductivity
14. Dissolved Oxygen (DO)
14. Temperature
16. pH

*Newly added parameters – see note in above paragraph.

Locations

Five (5) sites within the Village were tested, at locations upstream and downstream of the MS4 discharge:

- Spring Creek South (SCBH1Q)
- Spring Creek Middle (SCBH2Q)
- Spring Creek North (SCBH3Q)
- Flint Creek South (FCBH1)
- Flint Creek North (FCBH4)

A map of these locations is included in Section 3.

Section 2
Program Overview

PURPOSE

The purpose of water quality testing analysis is to demonstrate compliance with the minimum standards required by the Illinois Environmental Protection Agency (IEPA) General Storm Water Permit ILR40 for discharges from Small Municipal Separate Storm Sewer Systems (MS4s). The permit requires annual monitoring of receiving waters upstream and downstream of the MS4 discharges, use of indicators to gauge the effects of storm water discharges on the physical/habitat-related aspects of the receiving waters and/or monitoring of the effectiveness of the Best Management Practices (BMPs). MS4 components include the conveyance or system of conveyances including roads with drainage systems, municipal streets, catch basins, gutters, ditches, swales, manmade channels or storm sewers. Storm water run-off naturally contains numerous constituents; however, urbanization and urban activities (including municipal activities) typically increase concentrations to levels that may impact water quality. Pollutants associated with storm water include sediment, nutrients, bacteria and viruses, oil and grease, metals, organics, pesticides and gross pollutants.

Water pollution control programs are designed to protect the beneficial uses of the water resources within the state. Each state has the responsibility to set water quality standards (WQS) that protect these beneficial uses, commonly referred to as “designated uses”. In Illinois, waters are designated for various uses including aquatic life, wildlife, agricultural use, primary contact (e.g., swimming, water skiing), secondary contact (e.g., boating, fishing), industrial use, drinking water, food-processing water supply and aesthetic quality. Illinois’ WQS provide the basis for assessing whether the beneficial uses of the state’s waters are being attained. The purpose of this study is to assess the quality of receiving waters and provide recommendations for BMPs that will target the identified areas of concern.

TESTING METHODS AND PARAMETERS

For proper analysis, water samples are taken at locations upstream and downstream of the MS4 discharge and kept on ice during transport to the laboratory for processing. Upstream and downstream results are compared to determine if MS4 discharges are contributing to water pollution in receiving waters.

Water quality test results are also compared against published water quality standards. The purposes of these standards are to protect existing uses of all waters of the State of Illinois, maintain above standard water quality, and prevent unnecessary deterioration of waters of the State. A majority of the standards referred to in this report have been established by the Illinois Pollution Control Board (IPCB), and can be found in the Illinois Administrative Code Title 35, Environmental Protection; Subtitle C, Water Pollution; Chapter I, Pollution Control Board; Part 302, Water Quality Standards, or Part 304, Effluent Standards

(<http://www.ipcb.state.il.us/SLR/IPCBandIEPAEnvironmentalRegulations-Title35.asp>).

The IPCB has not established standards for three of the parameters measured (Total Kjeldahl Nitrogen, Conductivity, and Potassium). For purposes of this report, the standards for these parameters have been established as follows:

- Total Kjeldahl Nitrogen – As published in *Standard Methods for the Examination of Water and Wastewater*, a joint publication of the American Public Health Association (APHA), American Water Works Association (AWWA), and the Water Environment Federation (WEF) (<http://www.standardmethods.org/>).
- Conductivity – As published in *Volunteer Stream Monitoring: A Methods Manual*, November 1997 by the United States Environmental Protection Agency, Office of Water (http://water.epa.gov/type/rs/monitoring/upload/2002_08_13_volunteer_stream_stream.pdf)
- Potassium – No acceptable limit for potassium has been established by the IPCB or other regulatory agency. For purposes of this report, the limit for potassium is identified as 20.0 mg/L.

The following table describes each parameter tested and the implications that can be drawn from the results:

Parameter	Description	Standards/Accepted Limits	Source
Ammonia	The source of most ammonia in water bodies is from sprawl and urban areas, specifically in the form of road run-off, lawn pesticides and human wastes. Fish and other aquatic life forms contribute to the production of ammonia in streams by producing waste.	15.0 mg/L	IPCB Title 35, Subtitle C, Chapter 1, Part 302, Subpart B: <i>General Use Water Quality Standards</i>
Biochemical Oxygen Demand (BOD)	Represents the amount of oxygen consumed by microorganisms in decomposing organic matter within stream water. The greater the BOD reading, the more rapidly oxygen has been depleted from the water system causing there to be less available DO for aquatic life.	< 8.0 mg/L	IPCB Title 35, Subtitle C, Chapter 1, Part 304, Section 120: <i>Deoxygenating Wastes</i>
Chloride	May enter a water system from rocks, agricultural run-off, industrial wastewater, oil well wastes, wastewater treatment plant effluents, and road salts. Chloride in large quantities has negative impacts on aquatic life.	500.0 mg/L	IPCB Title 35, Subtitle C, Chapter 1, Part 302, Subpart C: <i>Public and Food Processing Water Supply Standards</i>
Conductivity	The measure of the water's ability to pass an electrical current. This is affected by inorganic dissolved solids that carry either a negative or positive charge. When outside of the normal range the water may not be able to support certain fish or macroinvertebrate species.	50-1500 μ S/cm	<i>Volunteer Stream Monitoring: A Methods Manual</i>
Dissolved Oxygen (DO)	DO is the amount of oxygen present in the water and it is necessary for fish respiration. Low DO levels will not support aquatic life and can lead to fish kills.	Mar – July: > 5 mg/L Aug – Feb: > 3.5 mg/L	IPCB Title 35, Subtitle C, Chapter 1, Part 302, Subpart B: <i>General Use Water Quality Standards</i>
Fecal Coliform	Bacteria found in the digestive systems of warm blooded organisms. It does not pose a health threat but can lead to serve as an indicator for bacteria that cause illnesses in both humans and aquatic life.	200 CFU per 100 mL	IPCB Title 35, Subtitle C, Chapter 1, Part 304, Subpart B: <i>Temporary Effluent Standards</i>
Fluoride	Often added to drinking water for dental health but high concentrations are associated with toxicity in aquatic organisms. Fluoride is naturally occurring and often comes from manufacturing emissions and agricultural runoff.	1.4 mg/L	IPCB Title 35, Subtitle C, Chapter 1, Part 302, Subpart D: <i>Secondary Contact and Indigenous Aquatic Life Standards</i>

Parameter	Description	Standards/Accepted Limits	Source
Oil & Grease	Sources of oil and grease include used fuel, motor oil, hydraulic fluids, and cooking oil. Most oil and grease is insoluble in water. Low levels of pollution can reduce aquatic organisms' ability to reproduce and survive. Toxicity varies among different types. Refined oils are generally more toxic than crude oils.	15 mg/L	IPCB Title 35, Subtitle C, Chapter 1, Part 302, Subpart B: <i>Temporary Effluent Standards</i>
Temperature	Changes in temperature affect the rates of biological & chemical processes, oxygen content of the water, rate of photosynthesis by aquatic plants, metabolic rates of aquatic organisms and the sensitivity of organisms to toxic wastes, parasites & diseases. If temperatures are outside of the desired range for long periods of time organisms become stressed and die.	Dec - Mar: 60° Max Apr - Nov: 90° Max	IPCB Title 35, Subtitle C, Chapter 1, Part 302, Subpart B: <i>General Use Water Quality Standards</i>
Total Dissolved Solids	Consists of inorganic salts, small amounts of organic matter, dissolved materials in the water, and inorganic anions. Agricultural and urban runoff and industrial and wastewater treatment discharges increase the TDS levels.	1000 mg/L	IPCB Title 35, Subtitle C, Chapter 1, Part 302 Water Quality Standards Section 302.304
Total Kjeldahl Nitrogen (TKN)	TKN is the sum of organic nitrogen, ammonia (NH ₃ ⁺), and ammonium (NH ₄ ⁺) of soil, water or wastewater. Various compounds of nitrogen are found in storm water runoff from fertilizers, animal wastes, and plant decay. Once nitrite is broken down to nitrate, if it is in excess it will cause extreme algal growth ultimately lowering the DO levels.	< 20.0 mg/L	<i>Standard Methods for the Examination of Water and Wastewater</i>
Total Phosphorus	A key element in animal and plant growth. Rainfall causes varying amounts of phosphorus and phosphates to wash away from farm soils and certain pesticides into waterways in the form of runoff. Excess phosphates can cause eutrophication which is an excessive amount of algae growth that is consuming large amounts of oxygen.	0.05 mg/L	IPCB Title 35, Subtitle C, Chapter 1, Part 302, Subpart B: <i>General Use Water Quality Standards</i>

Parameter	Description	Standards/Accepted Limits	Source
Total Suspended Solids (TSS)	Both organic and inorganic solid materials that have low density and are too small to settle such as silt, plankton, mud, and industrial wastes. As TSS increases the transparency of the water and DO levels decrease making it hard for some forms of life to exist.	15.0 – 30.0 mg/L	IPCB Title 35, Subtitle C, Chapter 1, Part 304, Section 124: <i>Additional Contaminants</i>
pH	A good indicator of liquid wastes coming from industries. Though it is not conclusive by itself, it can help identify problem areas.	6.5-9.0	IPCB Title 35, Subtitle C, Chapter 1, Part 302, Subpart B: <i>General Use Water Quality Standards</i>
Phenolics	Phenolics are a common group of chemicals found in foods, plants, medicines, cleaning products, industrial products & byproducts. Phenolics in storm water can indicate the presence of an illicit discharge.	0.100 mg/L	IPCB Title 35, Subtitle C, Chapter 1, Part 302, Subpart D: <i>Secondary Contact and Indigenous Aquatic Life Standards</i>
Potassium	Potassium is a primary component of the most commonly used fertilizer (potassium nitrate) and is abundant in animal waste. Potassium is found at relatively high concentrations in sewage, and in extremely high concentrations in many industrial process waters. Consequently, potassium can serve as a useful indicator for industrial wastes.	20.0 mg/L	None

Section 3
Testing Locations

In the Village of Barrington Hills, three (3) sites were selected for testing:

1. SCBH1Q (Spring Creek South)

The test site is located at the point where Spring Creek passes underneath Dundee Road, just east of Healy Road. In this report, the site is considered the upstream location for Spring Creek.

2. SCBH2Q (Spring Creek Middle)

This site is located where Spring Creek passes underneath Lake Cook Road/County Line Road after flowing through Spring Lake and Mud Lake. In this report, the site is in between the upstream and downstream locations for Flint Creek.

3. SCBH3Q (Spring Creek North)

The test site is located on the east side of Spring Creek at the southeast corner of Braeburn and Algonquin Roads in Barrington Hills. The samples were taken on the south side of Algonquin Road. In this report, the site is considered downstream of for Spring Creek

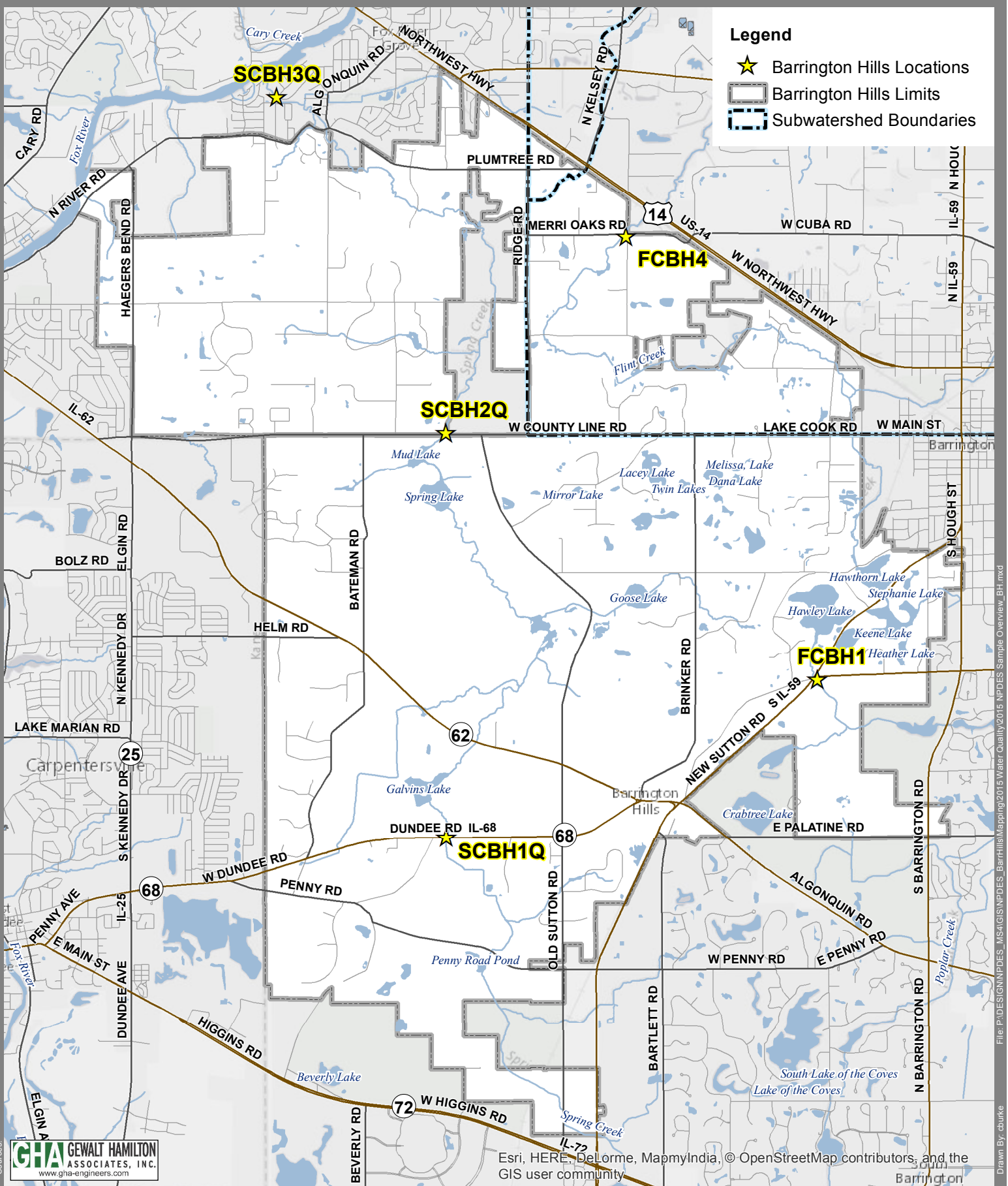
4. FCBH1 (Flint Creek South)

The test site is located on the east side of Flint Creek at the southeast corner of Dundee Road and Illinois Route 59 in Barrington Hills. The samples were taken on the south side of Dundee Road. In this report, the site is considered an upstream location for Flint Creek.

5. FCBH4 (Flint Creek North)

The test site is located on the west side of Flint Creek, north of Merri-Oaks Lane in Barrington Hills. The samples were taken on the west side of West Cuba Road. In this report, the site is considered a downstream location for Flint Creek.

Maps showing the approximate locations of the sample site are included on the following pages.



Legend

- ★ Barrington Hills Locations
- ▭ Barrington Hills Limits
- - - Subwatershed Boundaries

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1 inch = 5,000 Feet

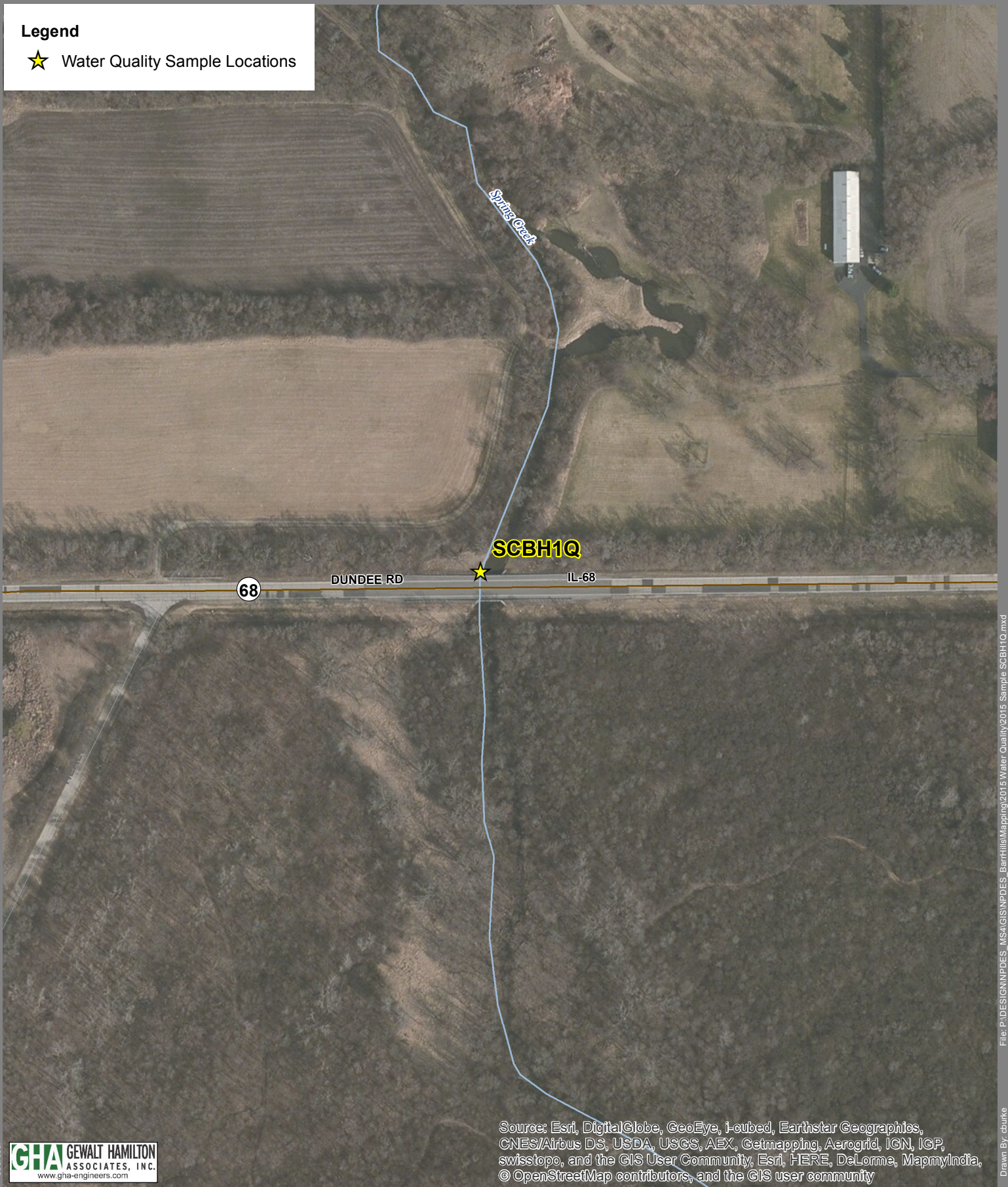
National Pollutant Discharge Elimination System

Water Sample Locations Overview
Village of Barrington Hills, Illinois

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Legend

★ Water Quality Sample Locations



Sources:



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

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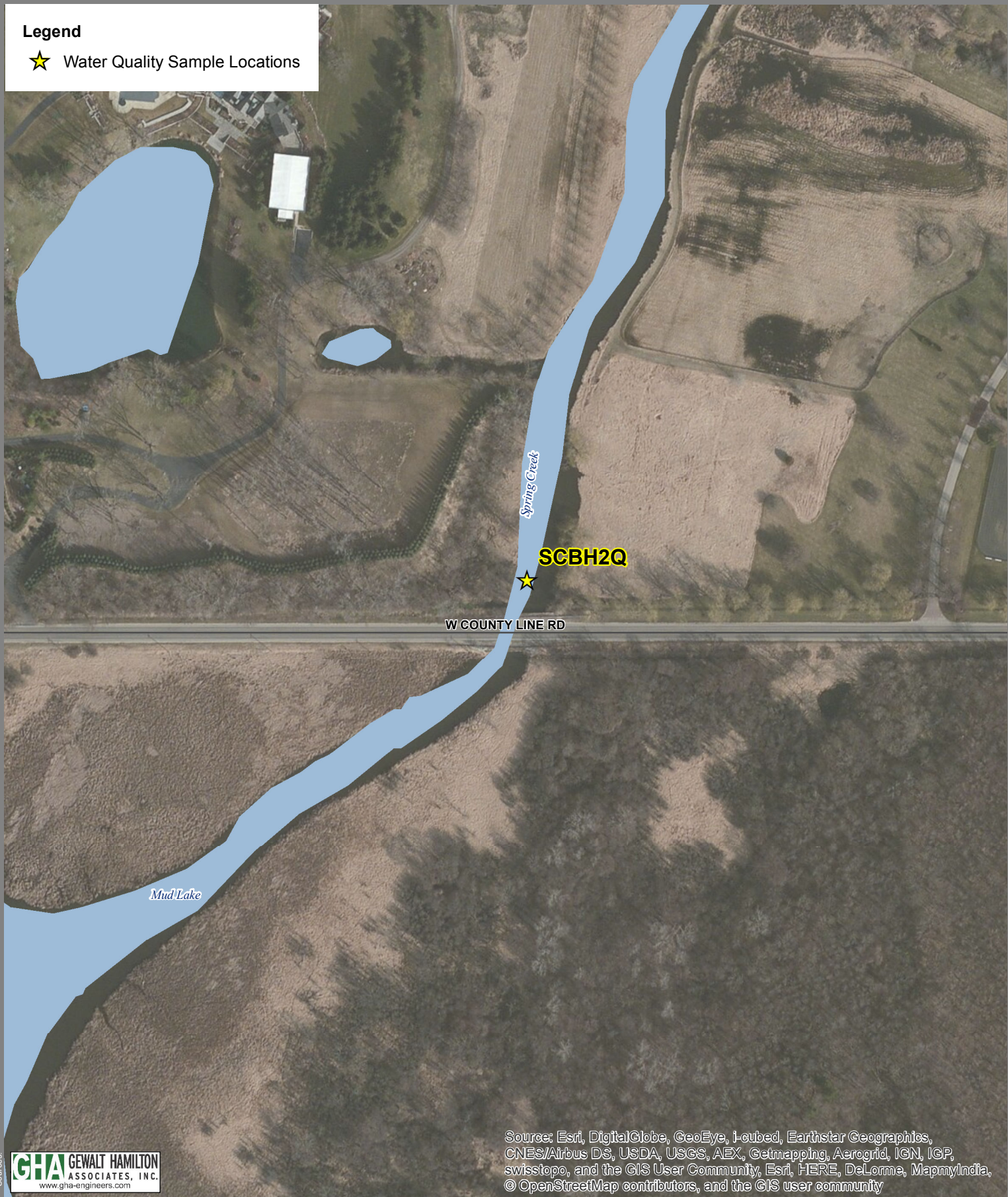
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Spring Creek South (SCBH1Q)

Upstream Water Sample Location
Village of Barrington Hills, Illinois

Legend

★ Water Quality Sample Locations



Sources:



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

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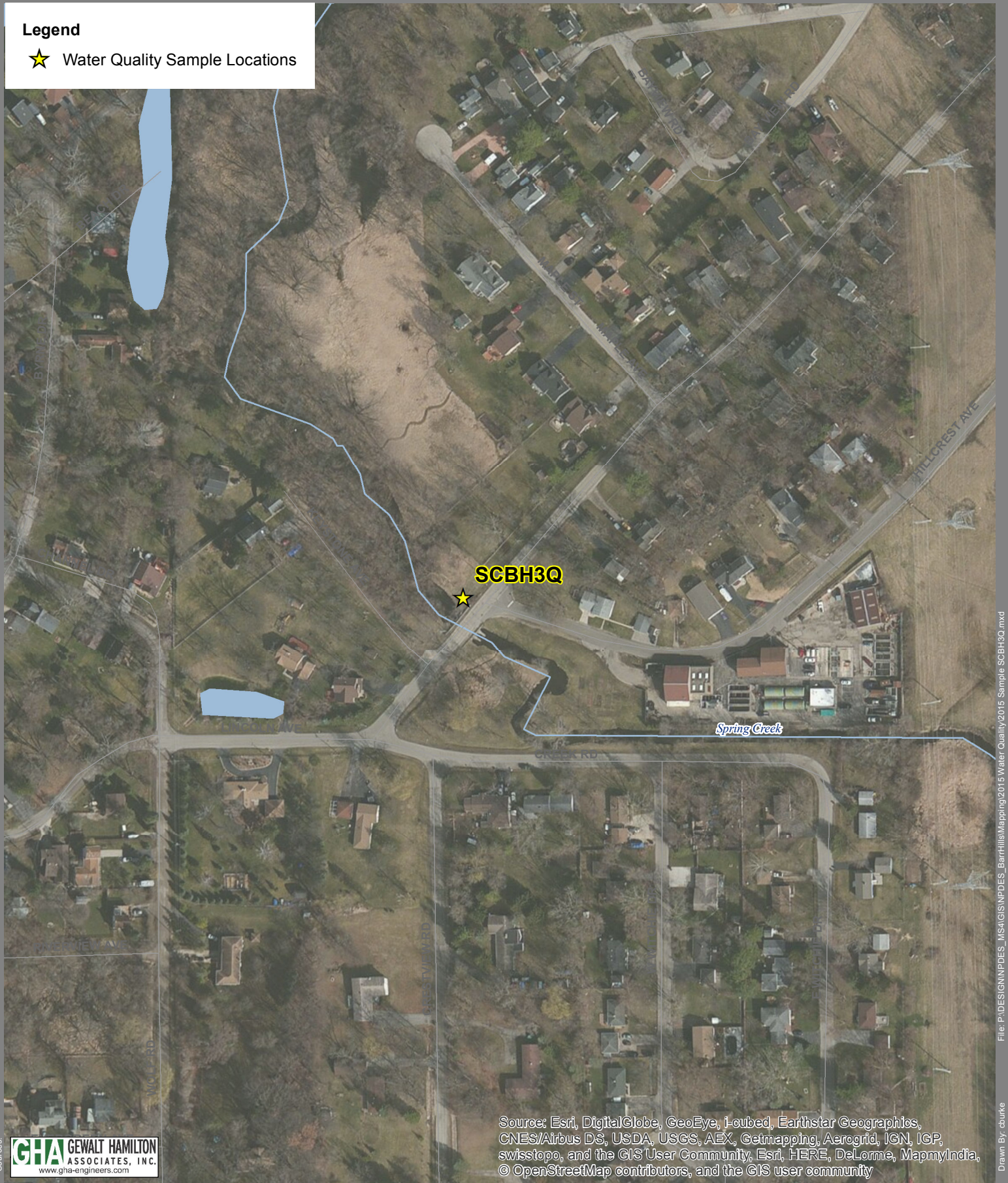
1 inch = 200 Feet

Spring Creek Middle (SCBH2Q)

Upstream Water Sample Location
Village of Barrington Hills, Illinois

Legend

★ Water Quality Sample Locations



Source: Esri, DigitalGlobe, GeoEye, I-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

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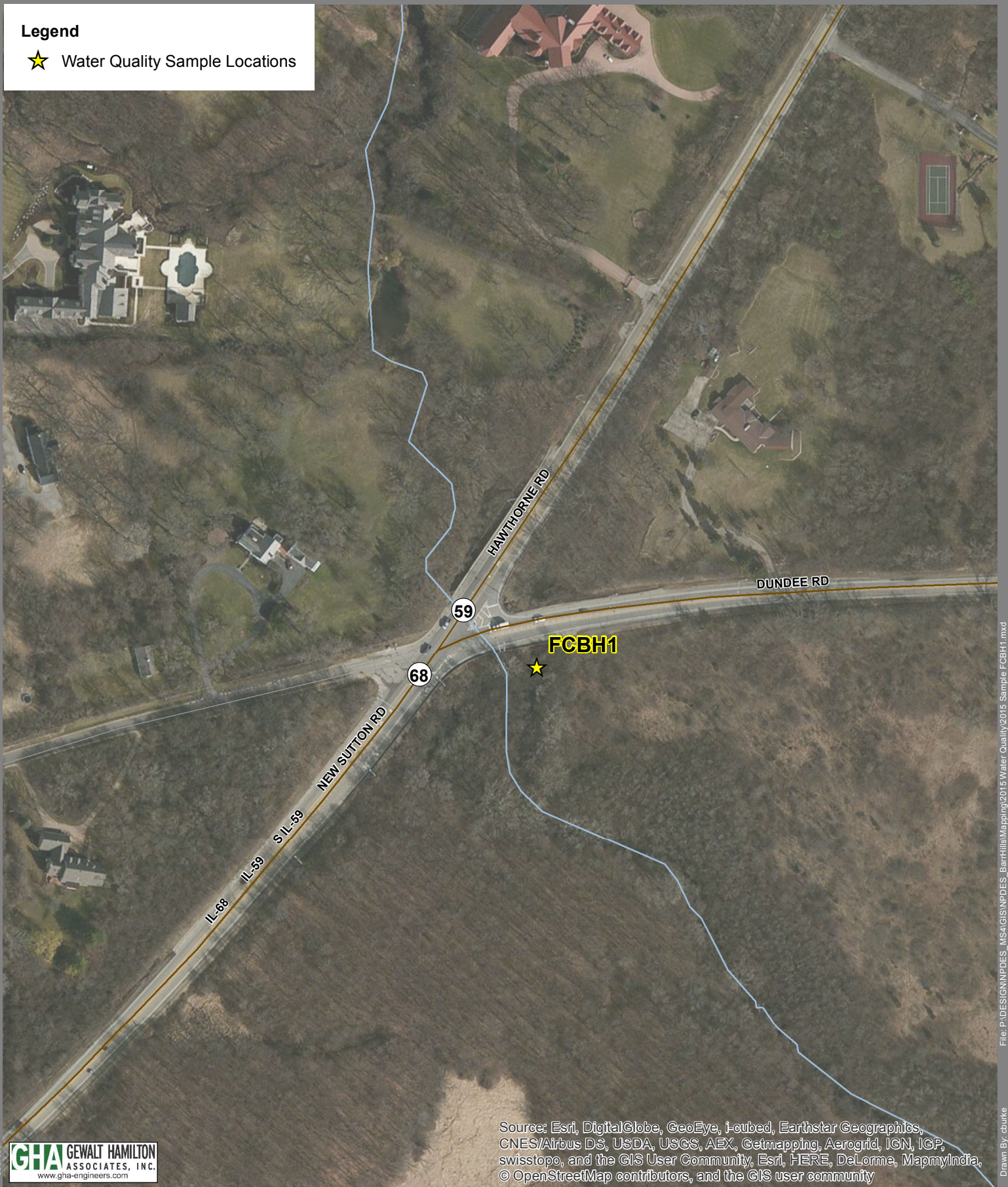
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Spring Creek North (SCBH3Q)

**Downstream Water Sample Location
Village of Barrington Hills, Illinois**

Legend

★ Water Quality Sample Locations



Sources:



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

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1 inch = 200 Feet

Flint Creek South (FCBH1)

**Upstream Water Sample Location
Village of Barrington Hills, Illinois**

Legend

★ Water Quality Sample Locations



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

Sources:



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1 inch = 200 Feet

Flint Creek North (FCBH4)

**Downstream Water Sample Location
Village of Barrington Hills, Illinois**

Section 4
Results and Recommendations

TEST RESULTS

Test results were reviewed to detect changes between upstream and downstream sampling points and also against generally accepted standards. The results of the water quality testing indicate that the majority of parameters were within the Water Quality Standards (WQS) limit for the Village of Barrington Hills. A summary table of all results is located in the Appendix.

The following table summarizes only the parameters which were outside of the accepted limits:

Testing Site	Location	Parameter	Accepted Limits	Test Results	Within Range
Spring Creek Middle (SCBH2Q)	Upstream	Dissolved Oxygen	> 3.5 ppm	0.46	N
Flint Creek South (FCBH1)	Upstream	Fecal Coliform	200 CFU/100 mL	517.2	N
		Conductivity	50-1500 µS/cm	1610.0	N
		Dissolved Oxygen	> 3.5 ppm	0.53	N
Flint Creek North (FCBH4)	Downstream	Fecal Coliform	200 CFU/100 mL	325.5	N
		Total Dissolved Solids	1000 ppm	1100.0	N
		Total Phosphorus	0.05 mg/L	0.19	N
		Total Suspended Solids	15-30 mg/L	33.0	N
		Conductivity	50-1500 µS/cm	1780.0	N

*This analysis is in no way intended to identify violations of the IPCB Standards.

The results listed in **bold** present a greater concern (due to significantly high levels), and therefore are prioritized in our recommendations to the Village. See pages 5-7 above for further description of the tested parameters.

RECOMMENDATIONS

Fecal coliform levels are relatively high at the Flint Creek South site. Fecal coliform does not pose a threat to humans unless ingested. However, high levels could indicate a problem with local sewage treatment plants or pipes that carry the water. The results suggest that the fecal coliform levels decrease between the upstream and downstream sites, which may indicate that the source is upstream of the Flint Creek South site. Since this is the first year the Village has tested for fecal coliform, these results will provide a baseline against which we can compare next year's results. If next year's results do not indicate an improvement in water quality, we would recommend additional testing to locate the potential source.

Regarding dissolved oxygen, the low levels are most likely attributable to the low flow at those sites, as noted on the field data sheets.

At the request of the Village, we will coordinate any additional recommended testing to either confirm the levels of or track the source of the various pollutants.

BEST MANAGEMENT PRACTICES

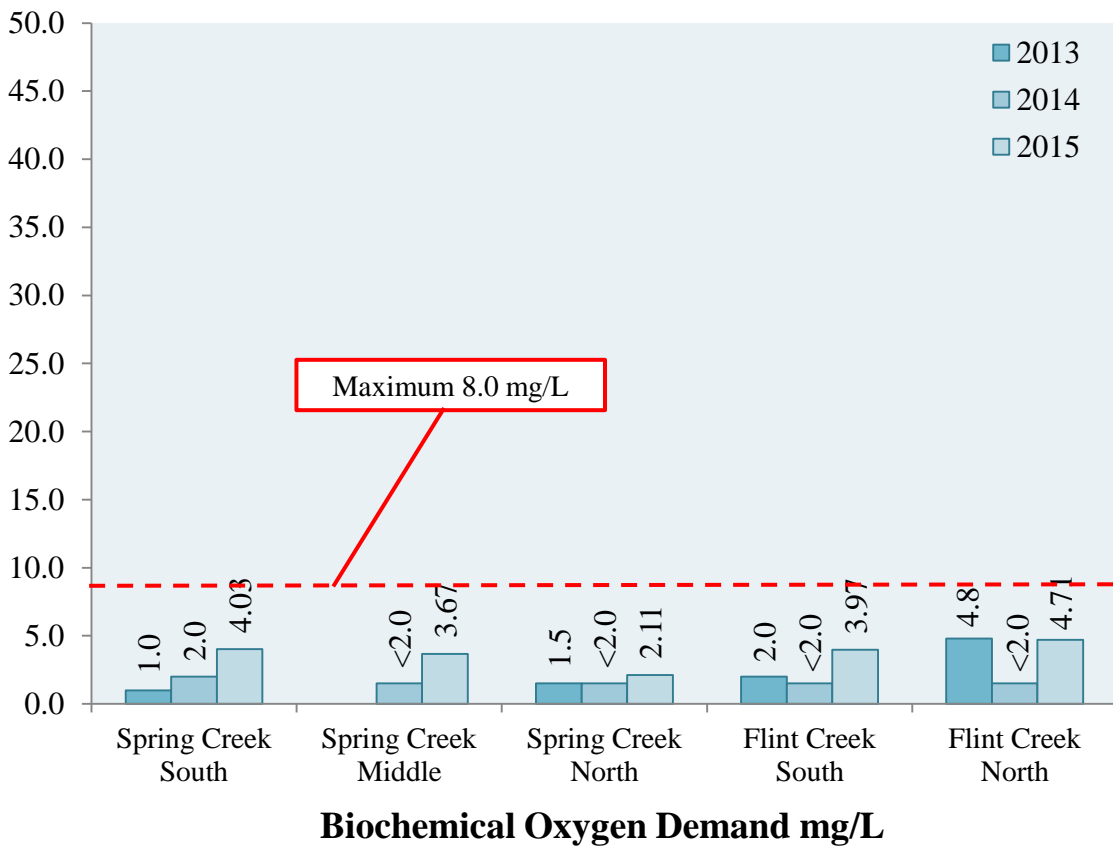
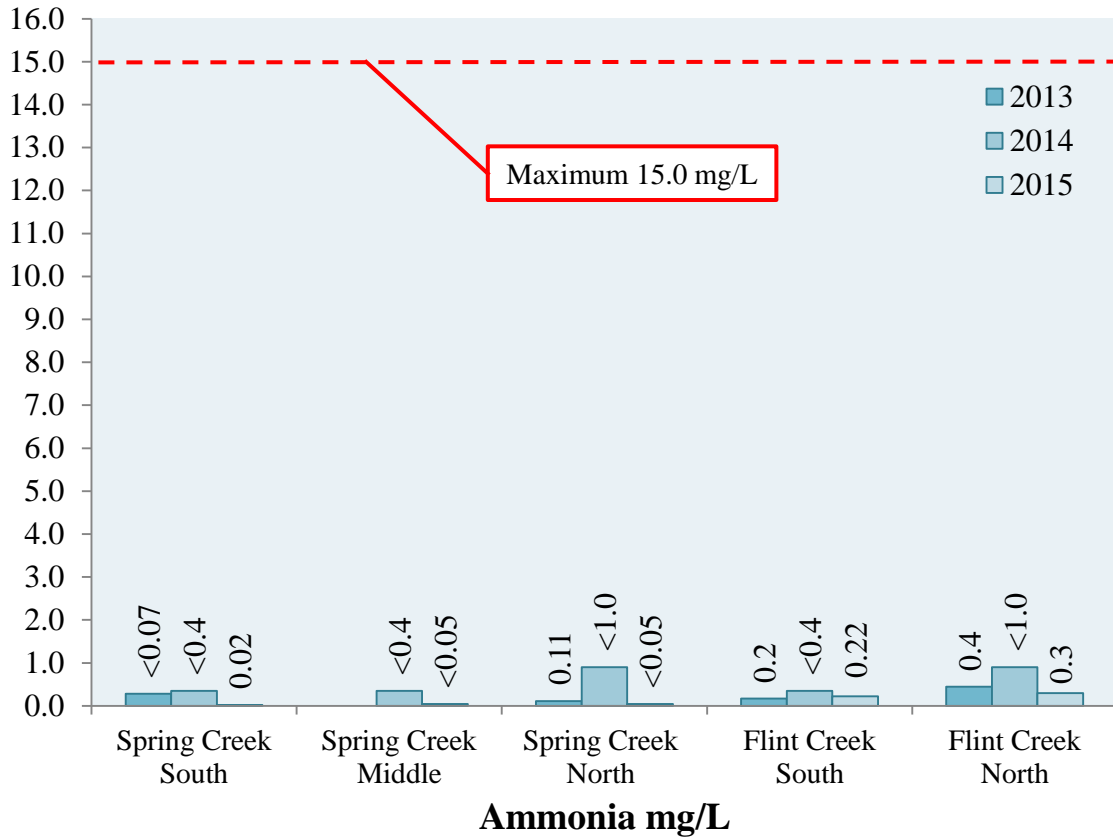
The Village of Barrington Hills can work with upstream communities and users to find solutions and reductions in pollution sources. Incorporating Best Management Practices (BMPs) such as the use of bioswales, rain gardens, filter strips, green infrastructure, reduction of de-icing salts and snow plowing, using grey water for irrigation, native

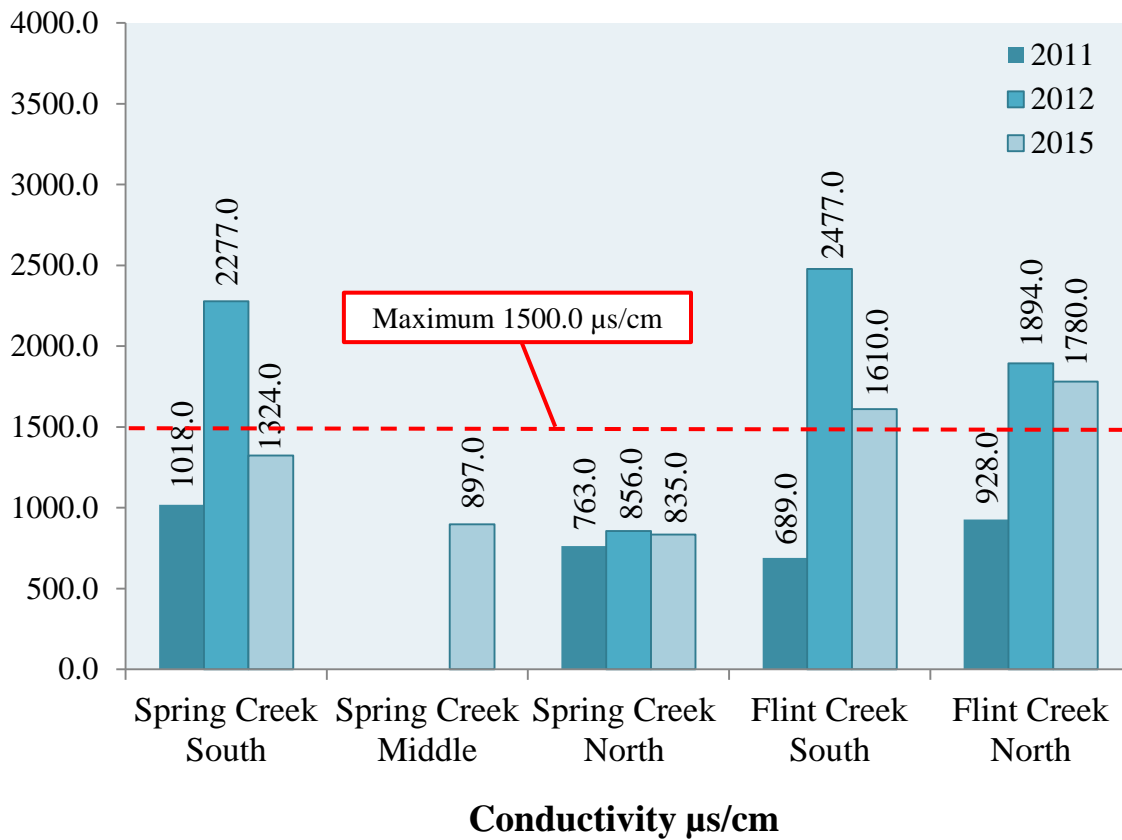
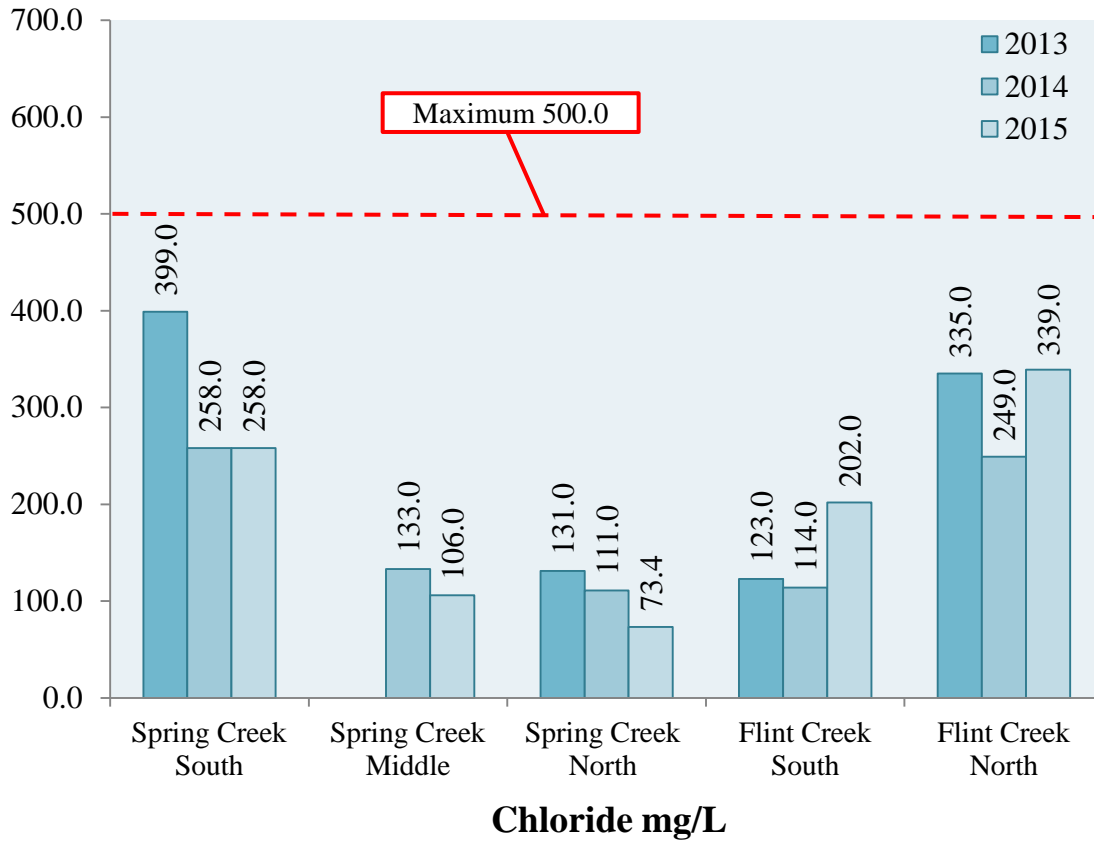
landscapes, watering restrictions, and enforcing septic regulations should be considered. We recommend using stormwater BMPs as outlined in the Village's Draft Stormwater Management Plan (SWMP) in order to reduce adverse effects of stormwater runoff on the Village's water quality.

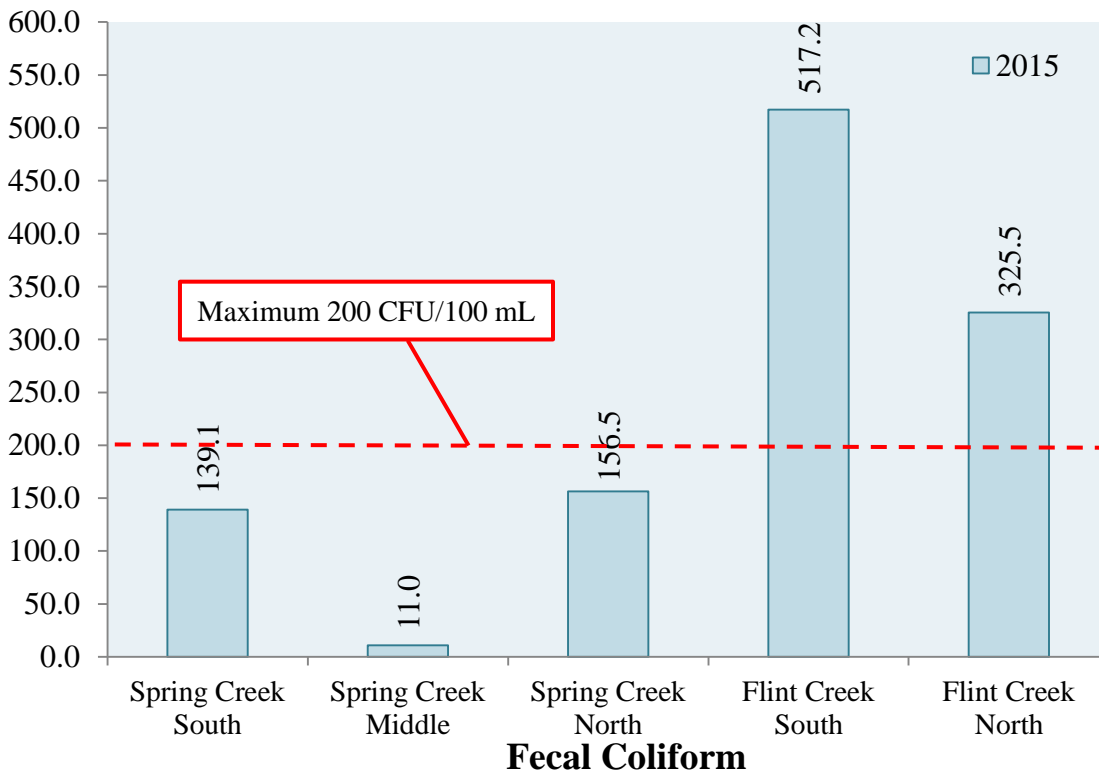
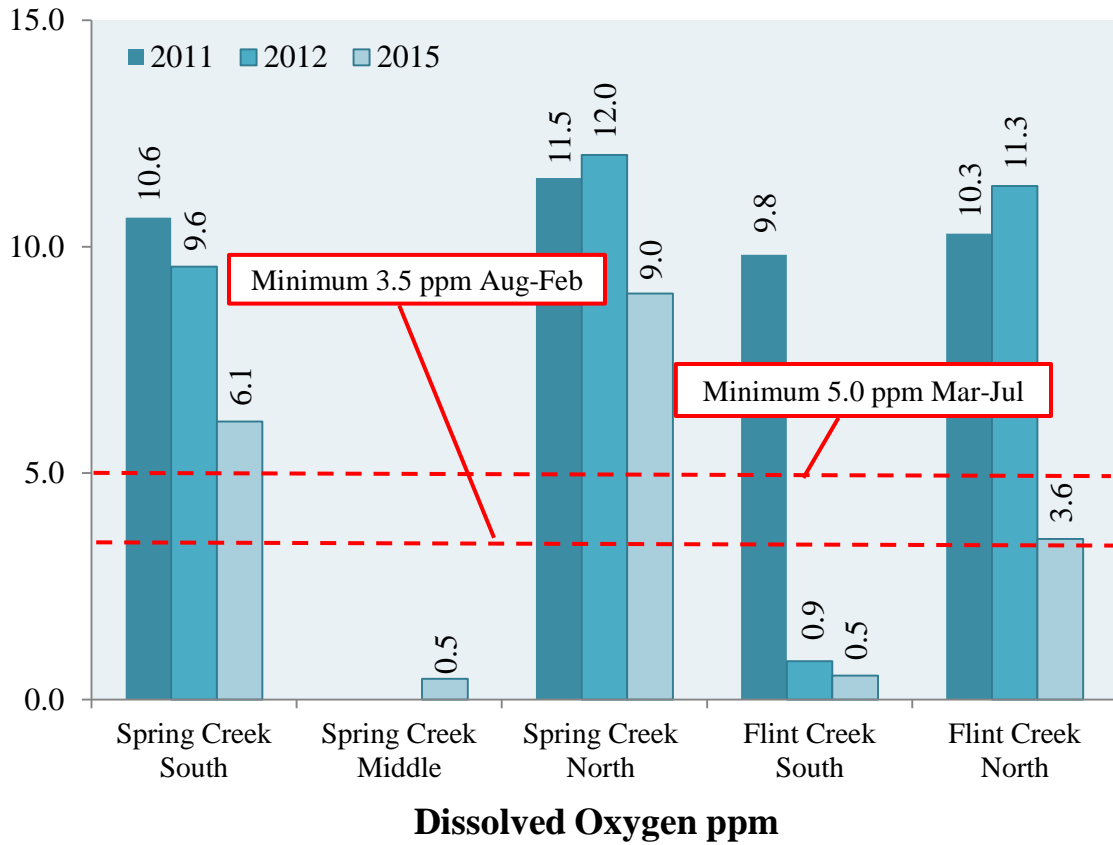
Additional educational materials to increase public awareness of pollution sources and ways to reduce these are critical to cooperative reduction in pollutants into the environment. Understanding sources of pollutants including pet waste, detergents and cleansers, fertilizers and pesticides will help residents, commercial and industry make informed choices. Supplying ideas on ways to reduce these problems and enforcing them will assist in long term reductions. For residents, these include using native landscape plantings, composting, rain barrels, reducing fertilizers and lawn watering, and reducing de-icing materials. For commercial, office and industrial, reducing de-icing salts or use of alternative materials, native landscaping, reducing or eliminating irrigation, using grey water, incorporating bioswales, rain gardens, filter strips, encouraging carpooling are ways to reduce pollutants.

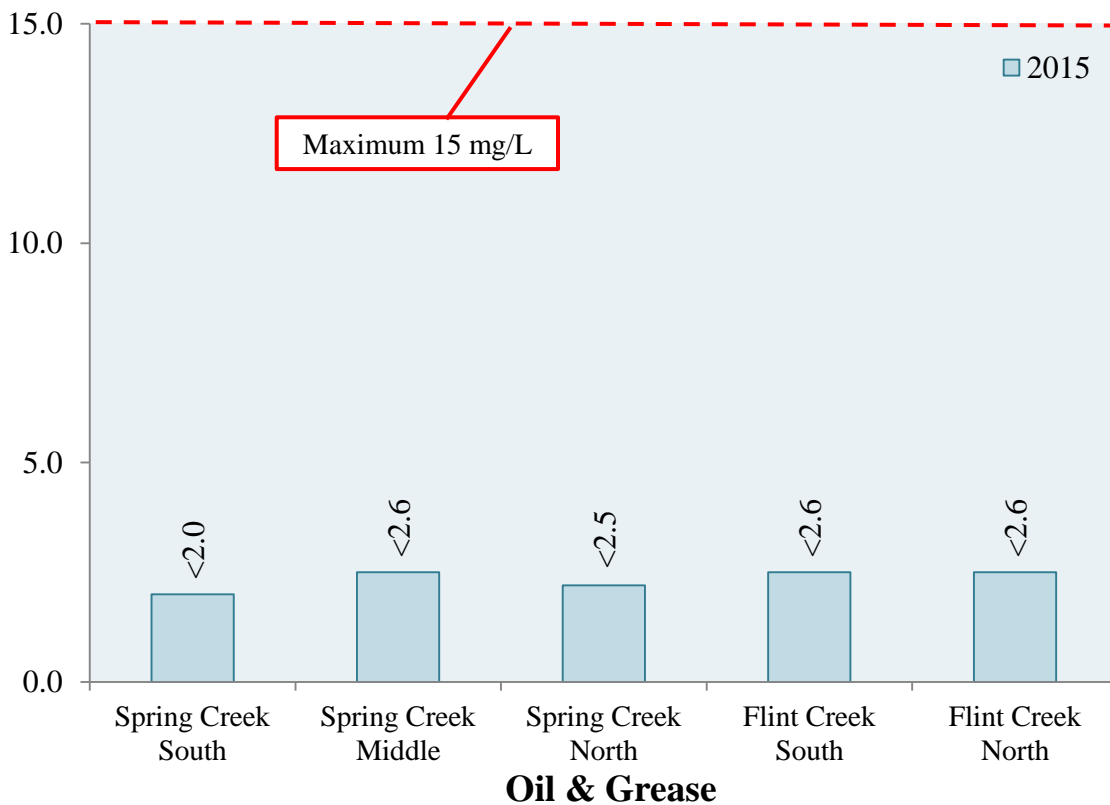
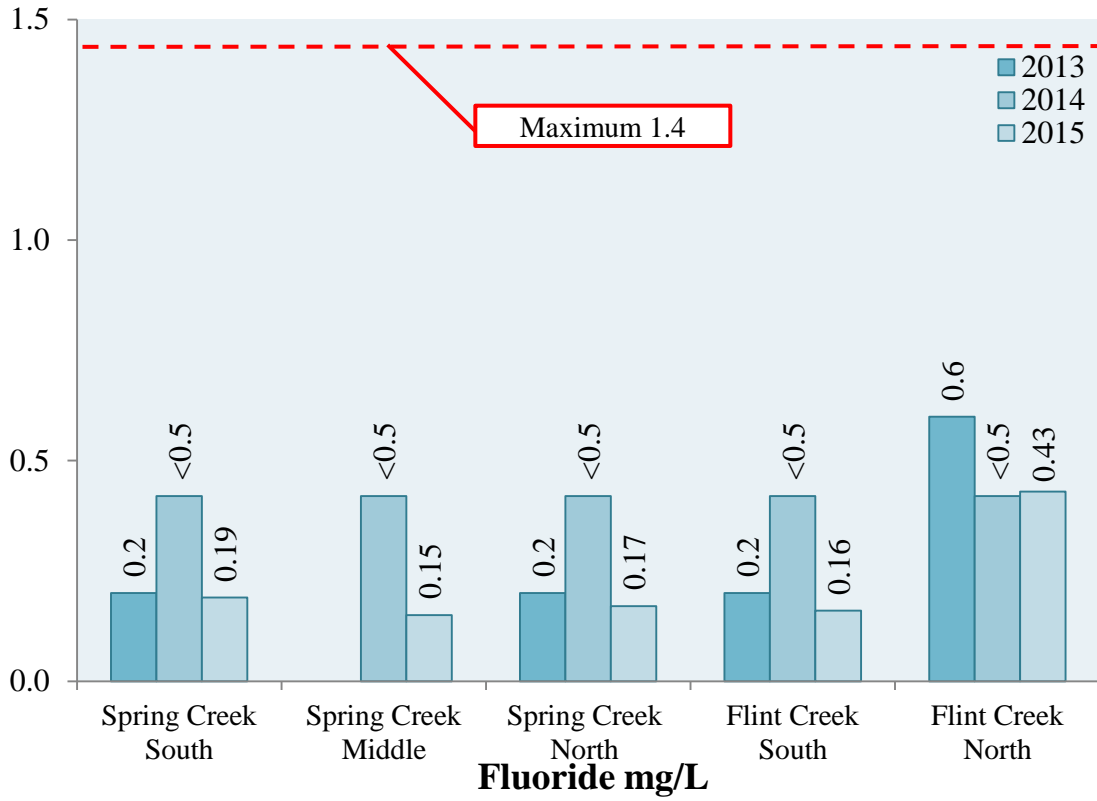
The Village should continue to compare test results each year to determine if the BMPs performed by the Village are improving water quality in the receiving waters within the Village of Barrington Hills.

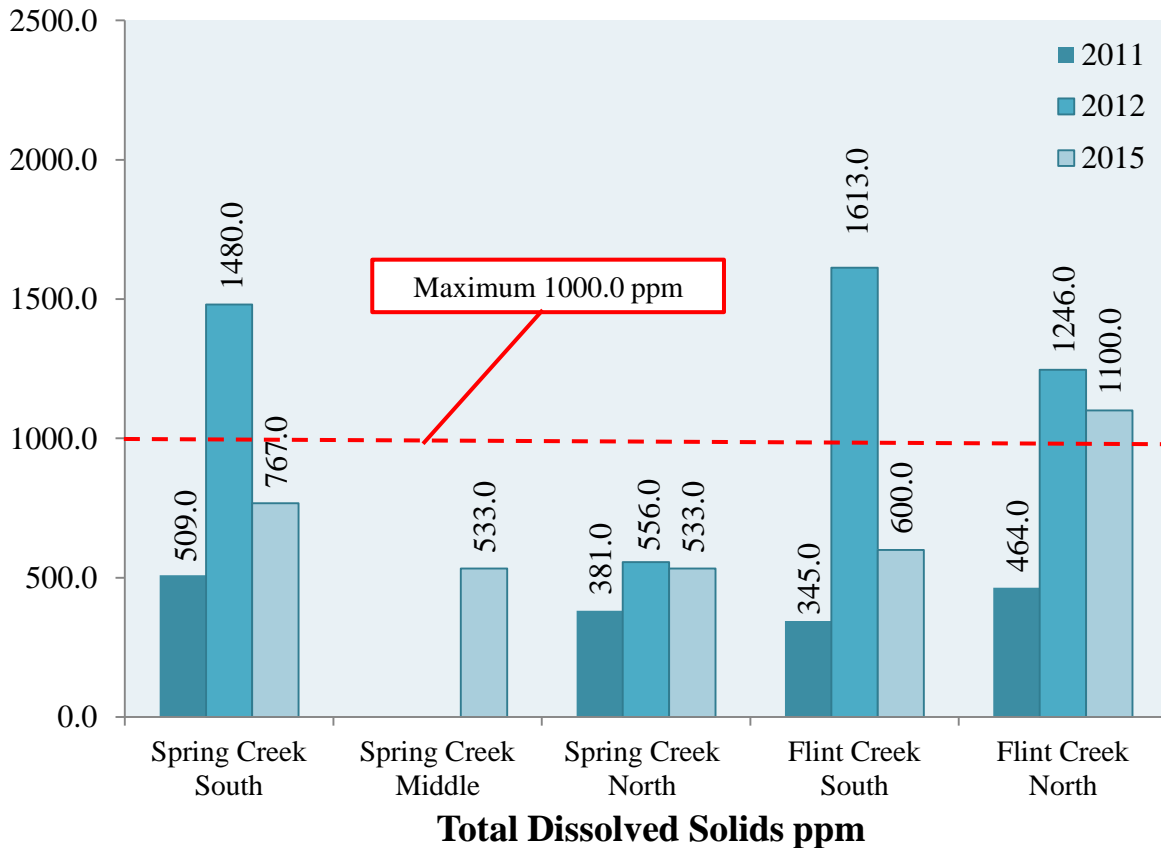
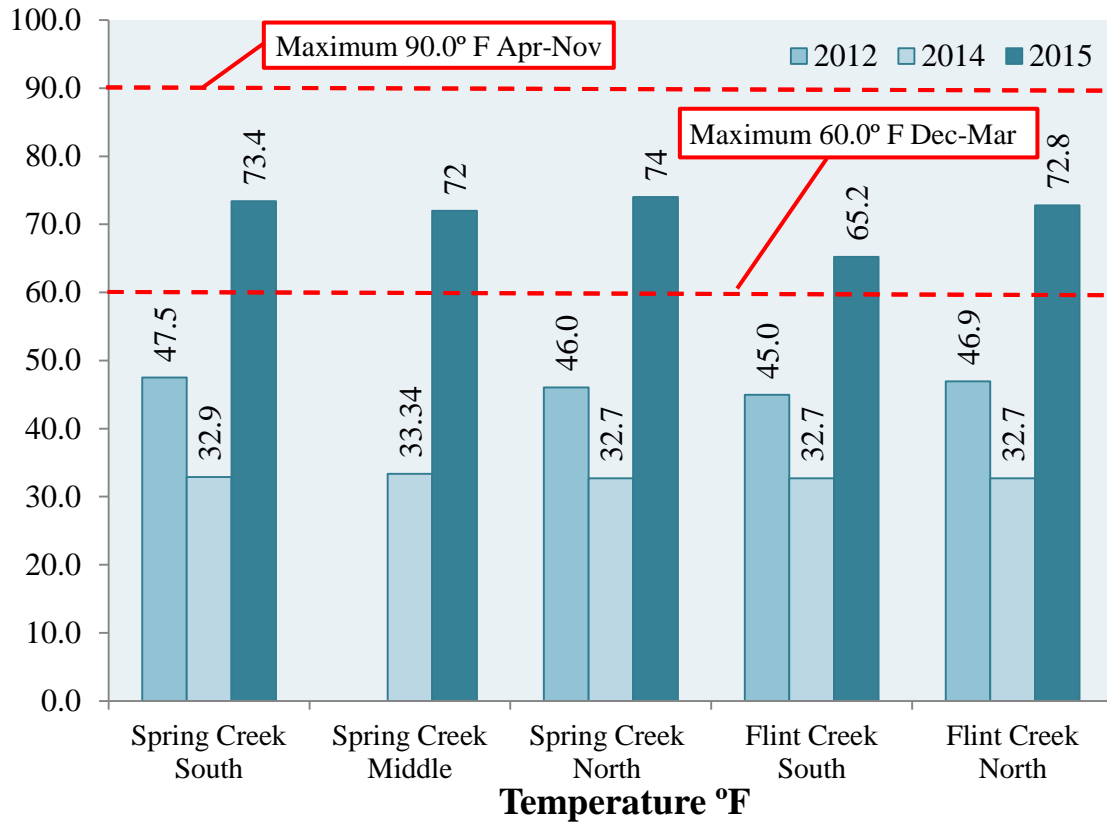
Graphs for each parameter are included on the following pages, which compare results from year to year.

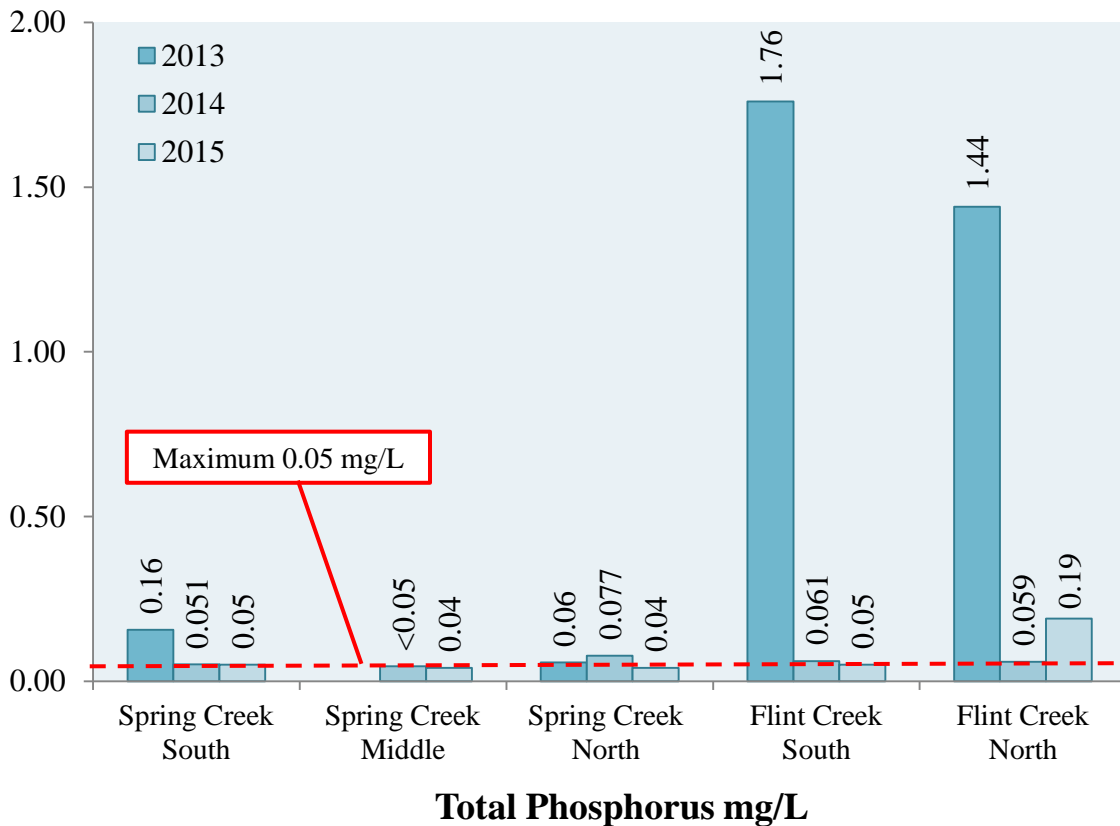
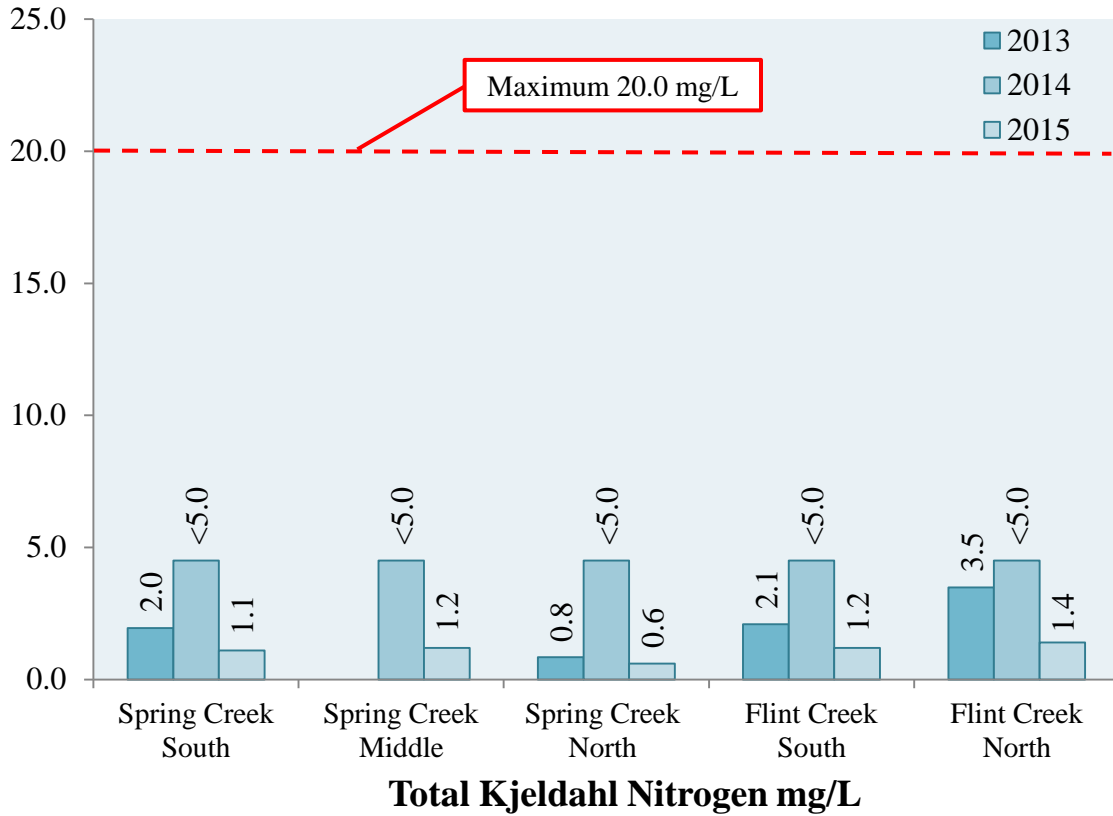


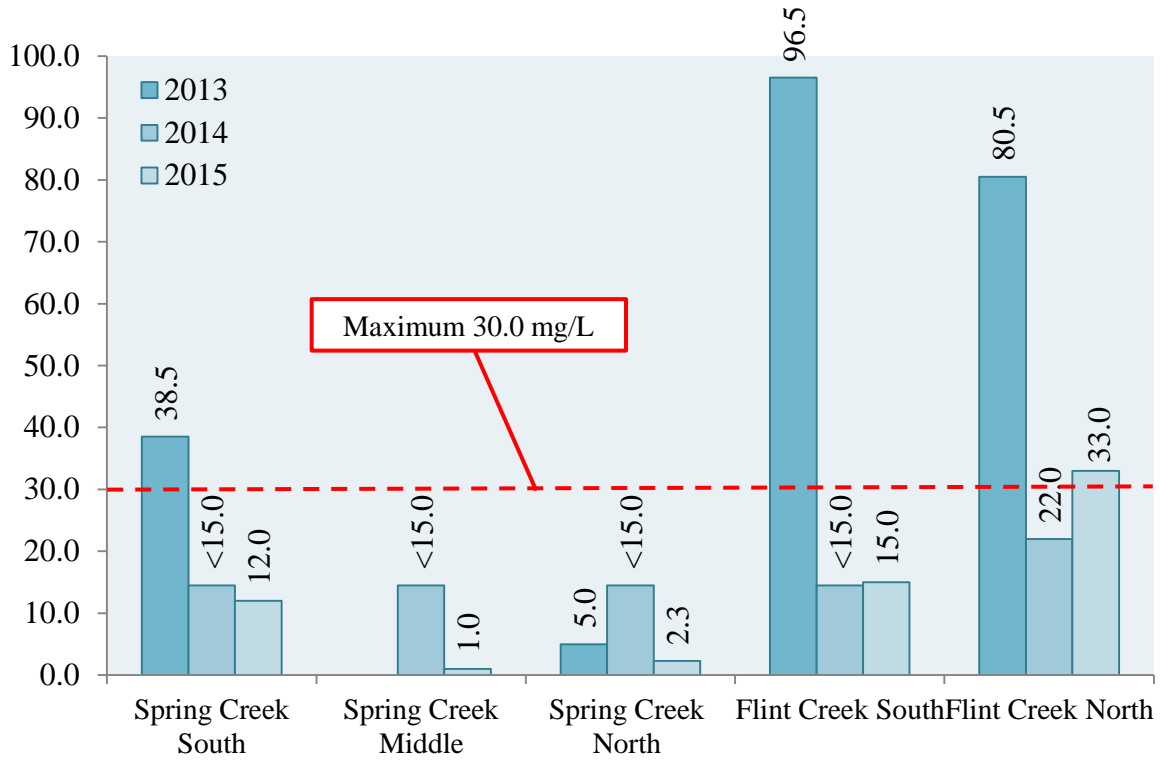




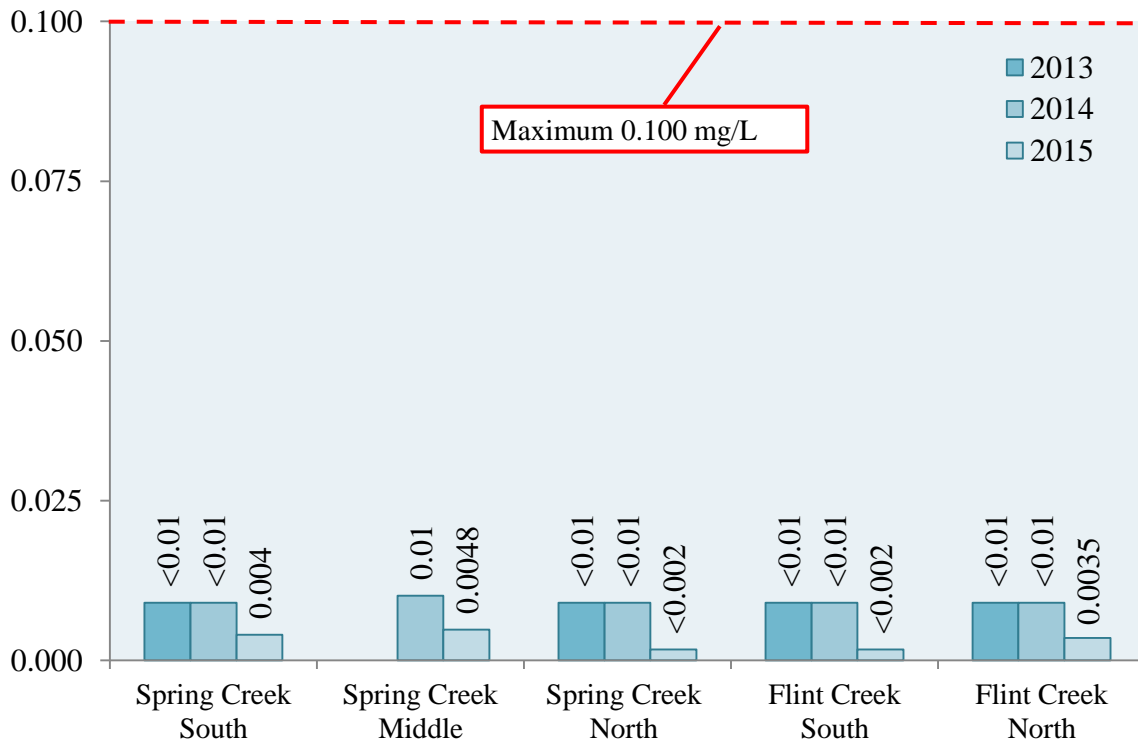




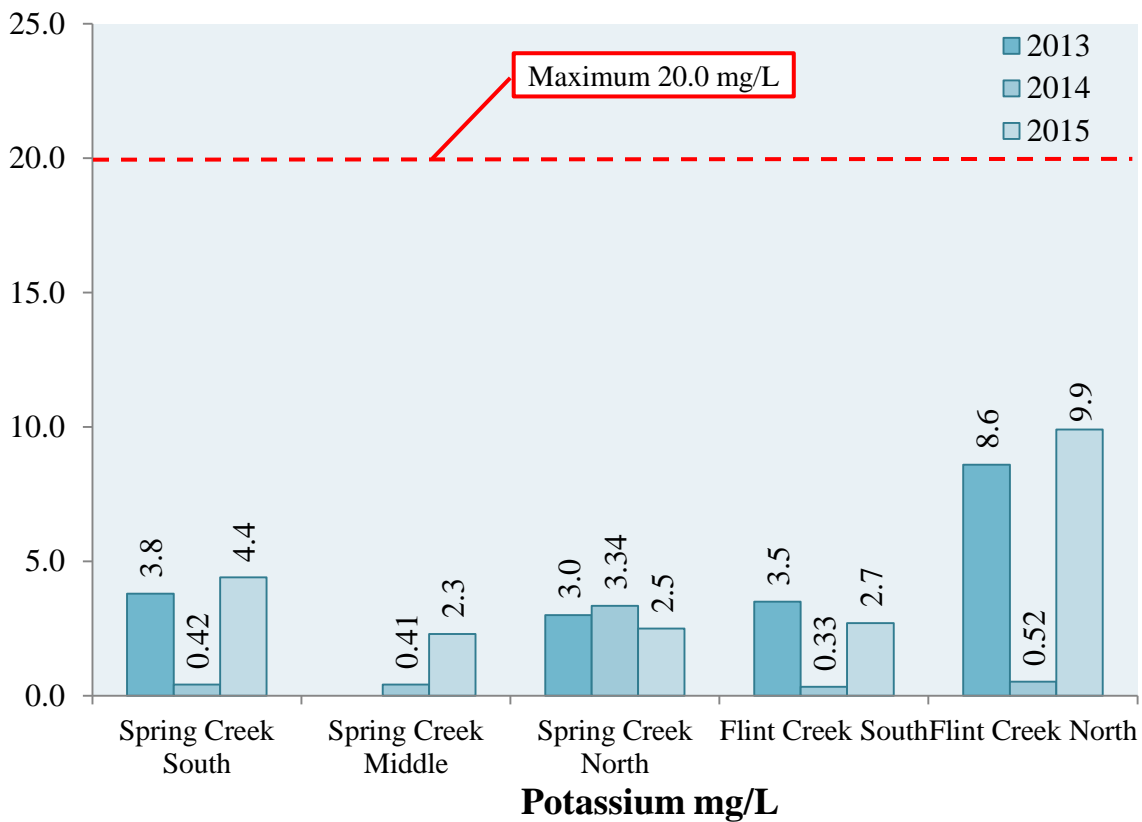
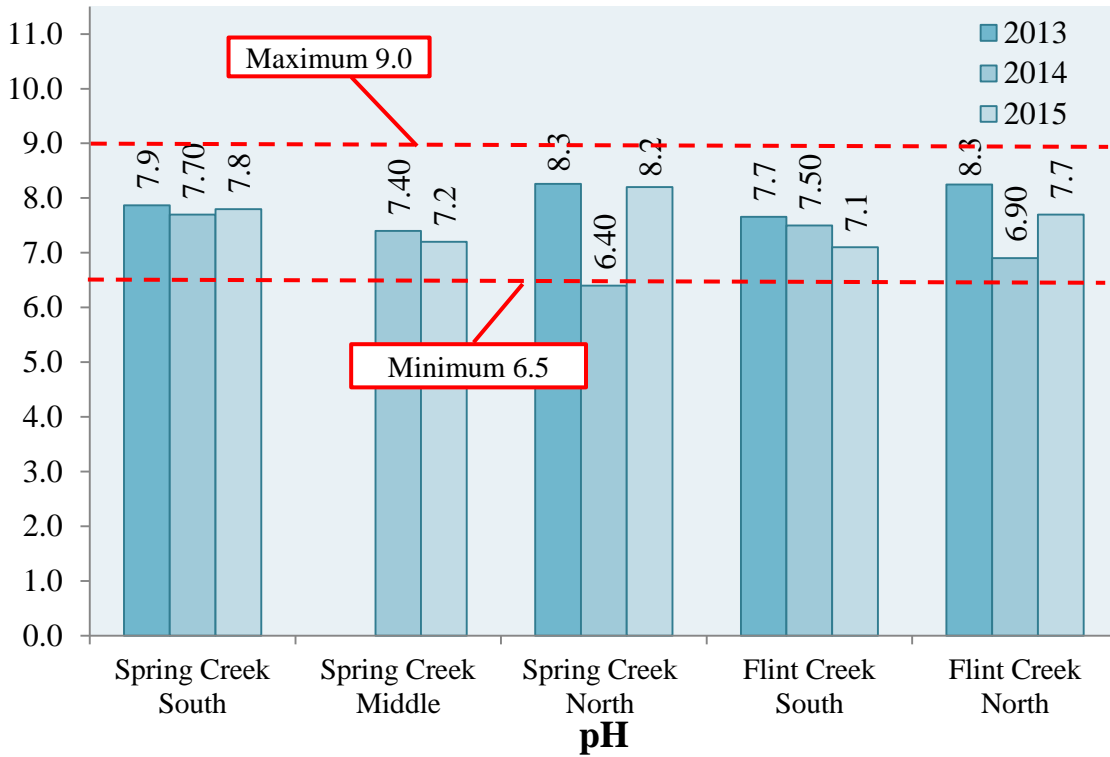




Total Suspended Solids mg/L



Phenolics mg/L



Section 5
Appendix

Village of Barrington Hills Water Quality Results 2015

	Illinois Water Pollution Control Board WQS*	IPCB Standards or Accepted Limits in mg/L	Spring Creek South (SCBH1Q)	Spring Creek Middle (SCBH2Q)	Spring Creek North (SCBH3Q)	Flint Creek South (FCBH1)	Flint Creek North (FCBH4)
Date Tested: 8/14/15							
Lab Analyses							
Ammonia	302.212	15.0	0.02	<0.05	<0.05	0.22	0.30
BOD	304 Effluent Standards	<8.0	4.03	3.67	2.11	3.97	4.71
Chloride	302.304	500.0	258.0	106.0	73.4	202.0	339.0
Fecal Coliform	302.209	200 CFU/100mL	139.1	11.0	156.5	517.2	325.5
Fluoride	302.407	1.4	0.19	0.15	0.17	0.16	0.43
Oil & Grease	302.407	15 mg/L	<2.4	<2.6	<2.5	<2.6	<2.6
Total Dissolved Solids	302.304	1000.0 ppm	767.0	533.0	533.0	600.0	1100.0
Total Kjeldahl Nitrogen	Standard Methods for the Examination of Water and Wastewater	<20.0	1.1	1.2	0.6	1.2	1.4
Phosphorous, Total	302.205	0.05	0.05	0.04	0.04	0.05	0.19
Total Suspended Solids	304 Effluent Standards	15-30.0	12.0	1.0	2.3	15.0	33.0
Phenolics	302.407	0.100	0.004	0.0048	<0.002	<0.002	0.0035
Potassium	None	20.0	4.4	2.3	2.5	2.7	9.9
Field Analyses							
Conductivity	USEPA Volunteer Stream Monitoring Manual	50.0-1500.0 µS/cm	1324.0	897.0	835.0	1610.0	1780.0
Dissolved Oxygen	302.206	March - July at least 5.0 ppm Aug -Feb at least 3.5 ppm	6.14	0.46	8.97	0.53	3.55
Temperature °F	302.211	Dec - Mar 60° F Max Apr - Nov 90° F Max	73.4	72.0	74.0	65.2	72.8
pH	302.204	6.5 - 9.0	7.8	7.2	8.2	7.1	7.7

*Title 35 Part 302 Water Quality Standards unless otherwise noted.

SXDATAWRK

Client ID	Result	Result Qualifier	Unit of Measure	Parameter Name	RDL
FCBH1	2419.60		100ml	Colilert (Quanti-Tray) Enumeration	2.2
FCBH1	517.20		100ml	Colilert (Quanti-Tray) Enumeration	2.2
FCBH1	0.16		mg/L	Fluoride by EPA 300.0 Rev. 2.1	0.35
FCBH1	8.87		mg/L	Sulfate by EPA 300.0 Rev. 2.1	1.75
FCBH1	202.00		mg/L	Chloride by Lachat 10-117-07-1-A	10.0
FCBH1	0.08		mg/L	Ortho-P by SM4500P,B,F	0.010
FCBH1	240.00		mg/L	Alkalinity by SM 2320B	4.0
FCBH1	0.05		mg/L	Total-P, Dissolved by SM4500P-F, 1999	0.010
FCBH1	3.97		mg/L	BOD by SM5210B, 2001	2.0
FCBH1	15.00		mg/L	TSS by SM2540D,1997	2.0
FCBH1	600.00		mg/L	TDS by SM2540C	20.0
FCBH1	0.22		mg/L	Nitrogen Ammonia by SM4500NH3,G -1997	0.05
FCBH1	0.16		mg/L	Total-P by SM4500P-F, 1999	0.010
FCBH1	<2.6	U	mg/L	Oil & Grease - total	6.0
FCBH1	79		mg/L	Calcium	0.050
FCBH1	1.5		mg/L	Iron	0.010
FCBH1	2.7		mg/L	Potassium	0.50
FCBH1	36		mg/L	Magnesium	0.050
FCBH1	87		mg/L	Sodium	0.50
FCBH1	0.22		mg/L	Aluminum	0.010
FCBH1	0.049		mg/L	Barium	0.0010
FCBH1	0.000084	J	mg/L	Cadmium	0.0010
FCBH1	0.0026	J	mg/L	Copper	0.0030
FCBH1	1.3		mg/L	Manganese	0.0010
FCBH1	0.00096	J	mg/L	Lead	0.0010
FCBH1	0.0099		mg/L	Zinc	0.0060
FCBH1	0.035		mg/L	Nitrate/Nitrite-N	0.020
FCBH1	<0.0020	U	mg/L	Phenolics	0.0050
FCBH1	1.2		mg/L	Total Kjeldahl Nitrogen (TKN)	1.0
FCBH1	35		mg/L	COD	6.0
FCBH4	2419.60		100ml	Colilert (Quanti-Tray) Enumeration	2.2
FCBH4	325.50		100ml	Colilert (Quanti-Tray) Enumeration	2.2
FCBH4	0.43		mg/L	Fluoride by EPA 300.0 Rev. 2.1	0.35
FCBH4	86.30		mg/L	Sulfate by EPA 300.0 Rev. 2.1	1.75
FCBH4	339.00		mg/L	Chloride by Lachat 10-117-07-1-A	10.0
FCBH4	0.43		mg/L	Ortho-P by SM4500P,B,F	0.010
FCBH4	290.00		mg/L	Alkalinity by SM 2320B	4.0
FCBH4	0.19		mg/L	Total-P, Dissolved by SM4500P-F, 1999	0.010
FCBH4	4.71		mg/L	BOD by SM5210B, 2001	2.0
FCBH4	33.00		mg/L	TSS by SM2540D,1997	2.0
FCBH4	1100.00		mg/L	TDS by SM2540C	20.0
FCBH4	0.30		mg/L	Nitrogen Ammonia by SM4500NH3,G -1997	0.05
FCBH4	0.48		mg/L	Total-P by SM4500P-F, 1999	0.020
FCBH4	<2.6	U	mg/L	Oil & Grease - total	6.0
FCBH4	100		mg/L	Calcium	0.050
FCBH4	1.0		mg/L	Iron	0.010
FCBH4	9.9		mg/L	Potassium	0.50
FCBH4	53		mg/L	Magnesium	0.050
FCBH4	210		mg/L	Sodium	0.50
FCBH4	0.59		mg/L	Aluminum	0.010
FCBH4	0.063		mg/L	Barium	0.0010
FCBH4	0.00014	J	mg/L	Cadmium	0.0010
FCBH4	0.010		mg/L	Copper	0.0030
FCBH4	0.16		mg/L	Manganese	0.0010
FCBH4	0.0029		mg/L	Lead	0.0010
FCBH4	0.025		mg/L	Zinc	0.0060
FCBH4	2.8		mg/L	Nitrate/Nitrite-N	0.10
FCBH4	0.0035	J	mg/L	Phenolics	0.0050
FCBH4	1.4		mg/L	Total Kjeldahl Nitrogen (TKN)	1.0
FCBH4	28		mg/L	COD	6.0
SCBH1Q	139.10		100ml	Colilert (Quanti-Tray) Enumeration	2.2
SCBH1Q	2419.60		100ml	Colilert (Quanti-Tray) Enumeration	2.2
SCBH1Q	0.19		mg/L	Fluoride by EPA 300.0 Rev. 2.1	0.35
SCBH1Q	60.49		mg/L	Sulfate by EPA 300.0 Rev. 2.1	1.75
SCBH1Q	258.00		mg/L	Chloride by Lachat 10-117-07-1-A	10.0
SCBH1Q	0.01		mg/L	Ortho-P by SM4500P,B,F	0.010
SCBH1Q	202.00		mg/L	Alkalinity by SM 2320B	4.0
SCBH1Q	0.02		mg/L	Total-P, Dissolved by SM4500P-F, 1999	0.010
SCBH1Q	4.03		mg/L	BOD by SM5210B, 2001	2.0
SCBH1Q	12.00		mg/L	TSS by SM2540D,1997	2.0

SXDATAWRK

SCBH1Q	0.02		mg/L	Nitrogen Ammonia by SM4500NH3,G -1997	0.05
SCBH1Q	767.00		mg/L	TDS by SM2540C	20.0
SCBH1Q	0.05		mg/L	Total-P by SM4500P-F, 1999	0.010
SCBH1Q	<2.4	U	mg/L	Oil & Grease - total	5.6
SCBH1Q	75		mg/L	Calcium	0.050
SCBH1Q	0.33		mg/L	Iron	0.010
SCBH1Q	4.4		mg/L	Potassium	0.50
SCBH1Q	34		mg/L	Magnesium	0.050
SCBH1Q	150		mg/L	Sodium	0.50
SCBH1Q	0.18		mg/L	Aluminum	0.010
SCBH1Q	0.072		mg/L	Barium	0.0010
SCBH1Q	0.000054	J	mg/L	Cadmium	0.0010
SCBH1Q	0.0029	J	mg/L	Copper	0.0030
SCBH1Q	0.085		mg/L	Manganese	0.0010
SCBH1Q	0.00041	J	mg/L	Lead	0.0010
SCBH1Q	0.0059	J	mg/L	Zinc	0.0060
SCBH1Q	0.057		mg/L	Nitrate/Nitrite-N	0.020
SCBH1Q	0.0040	J	mg/L	Phenolics	0.0050
SCBH1Q	1.1		mg/L	Total Kjeldahl Nitrogen (TKN)	1.0
SCBH1Q	31	Q2	mg/L	COD	6.0
SCBH2Q	11.00		100ml	Colilert (Quanti-Tray) Enumeration	2.2
SCBH2Q	2419.60		100ml	Colilert (Quanti-Tray) Enumeration	2.2
SCBH2Q	0.15		mg/L	Fluoride by EPA 300.0 Rev. 2.1	0.35
SCBH2Q	35.47		mg/L	Sulfate by EPA 300.0 Rev. 2.1	1.75
SCBH2Q	106.00		mg/L	Chloride by Lachat 10-117-07-1-A	10.0
SCBH2Q	0.01		mg/L	Ortho-P by SM4500P,B,F	0.010
SCBH2Q	236.00		mg/L	Alkalinity by SM 2320B	4.0
SCBH2Q	0.04		mg/L	Total-P, Dissolved by SM4500P-F, 1999	0.010
SCBH2Q	3.67		mg/L	BOD by SM5210B, 2001	2.0
SCBH2Q	1.00		mg/L	TSS by SM2540D,1997	2.0
SCBH2Q	-0.03		mg/L	Nitrogen Ammonia by SM4500NH3,G -1997	0.05
SCBH2Q	533.00		mg/L	TDS by SM2540C	20.0
SCBH2Q	0.05		mg/L	Total-P by SM4500P-F, 1999	0.010
SCBH2Q	<2.6	U	mg/L	Oil & Grease - total	6.0
SCBH2Q	75		mg/L	Calcium	0.050
SCBH2Q	0.072		mg/L	Iron	0.010
SCBH2Q	2.3		mg/L	Potassium	0.50
SCBH2Q	37		mg/L	Magnesium	0.050
SCBH2Q	67		mg/L	Sodium	0.50
SCBH2Q	0.077		mg/L	Aluminum	0.010
SCBH2Q	0.056		mg/L	Barium	0.0010
SCBH2Q	<0.000053	U	mg/L	Cadmium	0.0010
SCBH2Q	0.0012	J	mg/L	Copper	0.0030
SCBH2Q	0.23		mg/L	Manganese	0.0010
SCBH2Q	0.00016	J	mg/L	Lead	0.0010
SCBH2Q	0.0062		mg/L	Zinc	0.0060
SCBH2Q	0.071		mg/L	Nitrate/Nitrite-N	0.020
SCBH2Q	0.0048	J	mg/L	Phenolics	0.0050
SCBH2Q	1.2		mg/L	Total Kjeldahl Nitrogen (TKN)	1.0
SCBH2Q	33		mg/L	COD	6.0
FCBH4 DUP	2419.60		100ml	Colilert (Quanti-Tray) Enumeration	2.2
FCBH4 DUP	365.40		100ml	Colilert (Quanti-Tray) Enumeration	2.2
FCBH4 DUP	0.43		mg/L	Fluoride by EPA 300.0 Rev. 2.1	0.35
FCBH4 DUP	82.02		mg/L	Sulfate by EPA 300.0 Rev. 2.1	1.75
FCBH4 DUP	343.00		mg/L	Chloride by Lachat 10-117-07-1-A	10.0
FCBH4 DUP	0.43		mg/L	Ortho-P by SM4500P,B,F	0.010
FCBH4 DUP	286.00		mg/L	Alkalinity by SM 2320B	4.0
FCBH4 DUP	0.38		mg/L	Total-P, Dissolved by SM4500P-F, 1999	0.020
FCBH4 DUP	4.29		mg/L	BOD by SM5210B, 2001	2.0
FCBH4 DUP	28.00		mg/L	TSS by SM2540D,1997	2.0
FCBH4 DUP	0.29		mg/L	Nitrogen Ammonia by SM4500NH3,G -1997	0.05
FCBH4 DUP	1067.00		mg/L	TDS by SM2540C	20.0
FCBH4 DUP	0.50		mg/L	Total-P by SM4500P-F, 1999	0.020
FCBH4 DUP	<2.6	U	mg/L	Oil & Grease - total	6.1
FCBH4 DUP	100		mg/L	Calcium	0.050
FCBH4 DUP	0.82		mg/L	Iron	0.010
FCBH4 DUP	9.7		mg/L	Potassium	0.50
FCBH4 DUP	52		mg/L	Magnesium	0.050
FCBH4 DUP	210		mg/L	Sodium	0.50
FCBH4 DUP	0.45		mg/L	Aluminum	0.010
FCBH4 DUP	0.060		mg/L	Barium	0.0010

SXDATAWRK

FCBH4 DUP	0.000086	J	mg/L	Cadmium	0.0010
FCBH4 DUP	0.0072		mg/L	Copper	0.0030
FCBH4 DUP	0.15		mg/L	Manganese	0.0010
FCBH4 DUP	0.0021		mg/L	Lead	0.0010
FCBH4 DUP	0.016		mg/L	Zinc	0.0060
FCBH4 DUP	2.7		mg/L	Nitrate/Nitrite-N	0.040
FCBH4 DUP	<0.0020	U	mg/L	Phenolics	0.0050
FCBH4 DUP	1.6		mg/L	Total Kjeldahl Nitrogen (TKN)	1.0
FCBH4 DUP	15		mg/L	COD	6.0

SXDATAWRK

Client ID	Result	Result Qualifier	Unit of Measure	Parameter Name	RDL
SCBH3Q	156.50		100ml	Colilert (Quanti-Tray) Enumeration	2.2
SCBH3Q	2419.60		100ml	Colilert (Quanti-Tray) Enumeration	2.2
SCBH3Q	37.61		mg/L	Sulfate by EPA 300.0 Rev. 2.1	1.75
SCBH3Q	0.17		mg/L	Fluoride by EPA 300.0 Rev. 2.1	0.35
SCBH3Q	73.40		mg/L	Chloride by Lachat 10-117-07-1-A	1.00
SCBH3Q	0.03		mg/L	Ortho-P by SM4500P,B,F	0.010
SCBH3Q	0.04		mg/L	Total-P, Dissolved by SM4500P-F, 1999	0.010
SCBH3Q	282.00		mg/L	Alkalinity by SM 2320B	4.0
SCBH3Q	2.11		mg/L	BOD by SM5210B, 2001	2.0
SCBH3Q	-0.03		mg/L	Nitrogen Ammonia by SM4500NH3,G -1997	0.05
SCBH3Q	2.30		mg/L	TSS by SM2540D,1997	2.0
SCBH3Q	533.00		mg/L	TDS by SM2540C	20.0
SCBH3Q	0.04		mg/L	Total-P by SM4500P-F, 1999	0.010
SCBH3Q	<2.5	U	mg/L	Oil & Grease - total	5.8
SCBH3Q	76		mg/L	Calcium	0.20
SCBH3Q	0.25		mg/L	Iron	0.010
SCBH3Q	2.5		mg/L	Potassium	0.50
SCBH3Q	41		mg/L	Magnesium	0.10
SCBH3Q	41		mg/L	Sodium	1.5
SCBH3Q	0.033		mg/L	Aluminum	0.010
SCBH3Q	0.067		mg/L	Barium	0.0010
SCBH3Q	<0.000053	U	mg/L	Cadmium	0.0010
SCBH3Q	0.0015	J	mg/L	Copper	0.0030
SCBH3Q	0.017		mg/L	Manganese	0.0010
SCBH3Q	0.00013	J	mg/L	Lead	0.0010
SCBH3Q	0.0035	J	mg/L	Zinc	0.0060
SCBH3Q	0.29		mg/L	Nitrate/Nitrite-N	0.020
SCBH3Q	<0.0020	U	mg/L	Phenolics	0.0050
SCBH3Q	0.64	J	mg/L	Total Kjeldahl Nitrogen (TKN)	1.0
SCBH3Q	7.9		mg/L	COD	6.0

#	Site ID	Time	Temp°c	Cond (mS/cm)	DO	pH	ORP	Discharge cfs	Comments
1	FCNB1	8:50	18.44	1.500	6.35	7.60	-133.0	0.24	8/13/15 -Flint Creek North at Clover Hill, Very little flow
2	FCNB2	10:05	20.67	1.187	6.54	7.30	-127.3	0.04	Dog Bone trib. Pool with no flow at Miller, went downstream to 545 Miller Rd. footbridge above Flint Creek North
3	FCNB4	10:40	19.95	1.335	6.93	7.60	-133.5	0.15	Flint Creek North at Rt. 59. Narrow channel., lower level than normal. Tree clearing at Rt. 59 near site.
4	FCNB7	11:30	23.76	1.084	4.46	7.24	-123.6	0.51	Honey Lake trib at outlet to Honey Lake on Biltmore Road.
5	FCLB3Q	12:45	24.23	1.354	7.68	7.96	-136.4	2.99	Flowing into Flint Lake. Collected at downstream side of bridge.
6	FCLB4Q	1:45	20.95	1.043	6.31	7.30	-119.6	0.43	Behind house. Stream full of sediment over 1 ft thick.
7	FCLB5Q	2:45	26.33	1.318	9.40	8.07	-147.5	4.02	Downstream side of Kelsey Road bridge near bike trail. Saw 2 deer.
8	SCBH3Q	4:00	23.32	0.835	8.76	8.16	-139.2	1.52	3 culverts at Lincoln Ave. Collected samples from highest flow--left downstream culvert. Flow from each culvert
9	FCBH4	8:15	22.65	1.780	3.55	7.70	-121.9	2.90	8/14/15 - Flint Creek at Merryoaks Rd. upstream side of bridge
10	SCBH2Q	9:09	22.20	0.897	0.46	7.16	-73.1	2.17	Spring Creek at County Line Rd. Very little flow, downstream side of bridge. Duckweed and pondweeds present
11	SCBH1Q	9:58	23.01	1.324	6.14	7.79	-129.9	1.31	Spring Creek on north side of bridge at Rt. 68 (downstream). Mudflats in middle.

#	Site ID	Time	Temp°c	Cond (mS/cm)	DO	pH	ORP	Discharge cfs	Comments
12	SCSB2	10:46	21.74	1.057	2.42	7.00	-92.5	0.01	Spring Creek branch on east side of Rt. 59, upstream. Very tiny flow. Choked with reed canary grass.
13	SCSB1	11:35	23.72	1.220	7.57	7.83	-134.1	3.00	Spring Creek north of Regency on Rt. 59. Flowing well, possibly from upstream pond.
14	FCBH1	11:57	18.47	1.610	0.53	7.07	-73.4	0.05	Flint Creek at Rts. 68 & 59. Stagnant. Access is 10' below road.
15	FCB1	12.:46	22.23	2.640	2.40	7.17	-103.3	0.02	Flint Creek branch at Makray golf course. No flow. Cattails, bluegreen algae, water level very low
16	FCB3T	1:33	20.62	2.310	8.45	7.21	-86.4	7.05	Sewage treatment effluent draining into Flint Creek branch. Collected samples from effluent.
17	FCBH1Q	1:58	28.64	0.870	6.64	7.11	-75.4	0.18	Flint Creek at Lake Cook Rd. Low flow and mud flats on sides.
18	FCB4Q	2:24	21.51	2.260	8.56	7.34	-103.9	1.76	Flint Creek branch at Hart Rd. 3 culverts only left downstream had flow, others contained mudflats.
19	FCB2	9:25	23.25	0.989	1.26	7.11	-87.5	0.12	Flint Creek branch Heavily wooded, sampled downstream side of bridge. Lots of rocks.
20	FCDP5	10:00	25.16	1.176	5.70	7.80	-124.3	0.13	Flint Creek branch off Braemer Lane, culvert under railroad tracks, flowing well.
21	FCDP1	10:40	20.76	2.030	0.35	7.00	-70.2	0.00	Flint Creek branch off Bobwhite Lane, full of duckweed and cattails. No visible flow. Collected from footbridge.
22	FCDP2	11:20	19.74	1.310	1.92	7.30	-93.4	0.03	Flint Creek branch west side of Ela Rd. sampled due to debris upstream & multiple culverts. No visible flow.



Robert Kosin <rkosin@barringtonhills-il.gov>

VBH ZBA 4/18

Robert Kosin <rkosin@barringtonhills-il.gov>

Wed, Apr 6, 2016 at 9:05 AM

To: Pauline Boyle <daydreampauline@yahoo.com>

Cc: Village Clerk <clerk@barringtonhills-il.gov>, Daniel Wolfgram <dwolfgram@barringtonhills-il.gov>

Dear Ms. Boyle,

This is to advise you that the ZBA will reconvene it's meeting regarding the application from St. Mark's on Monday April 18th at 7:30PM in the MacArthur Room of the Village Hall.

At the last meeting in February, you expressed certain opinions and concerns regarding septic systems and storm water drainage. In preparation of the upcoming meeting, please provide to the Village Clerk the documents, studies or tests that you referenced in your testimony to the ZBA. Likewise you have advised the Village that the plat of survey of the St. Marks parcel is erroneous and the basis for that opinion should be forward to the Clerk.

Please provide this information by Friday April 15th so it can be distributed for the consideration of the ZBA and made part of the public record for the meeting.

www.barringtonhills-il.gov/archive/zoning/ZBA_Archive.html#2016

You need not concern yourself with copies or the format of the documents as all will be addressed through the office of the Village Clerk. Likewise the records can be delivered during regular business hours or sent by email to the address of the Clerk as copied on this email.

Sincerely,

R. Kosin
Director of Administration



Robert Kosin <rkosin@barringtonhills-il.gov>

Zoning board of appeals - St Marks Church

Pauline Boyle <daydreampauline@yahoo.com>

Fri, Apr 15, 2016 at 3:31 PM

Reply-To: Pauline Boyle <daydreampauline@yahoo.com>

To: Bob Kosin <rkosin@barringtonhills-il.gov>, Colleen Konicek <ckonicek@barringtonhills-il.gov>, "dwolfgram@barringtonhills-il.gov" <dwolfgram@barringtonhills-il.gov>, "rchambers@barringtonhills-il.gov" <rchambers@barringtonhills-il.gov>, "jroot@barringtonhills-il.gov" <jroot@barringtonhills-il.gov>, "jgoss@barringtonhills-il.gov" <jgoss@barringtonhills-il.gov>, "dbuettner@barringtonhills-il.gov" <dbuettner@barringtonhills-il.gov>, "phennelly@barringtonhills-il.gov" <phennelly@barringtonhills-il.gov>, Lake County State's Attorney <statesattorney@lakecountyil.gov>

Cc: Pauline Boyle <pauline.boyle@icloud.com>, "clerk@barringtonhills-il.gov" <clerk@barringtonhills-il.gov>

Mr. Kosin,

As of today I have yet to receive a copy of the requested letter from Gewalt Hamilton regarding the St Marks Church permit as discussed at the February Zoning Board of Appeals meeting. I have yet to receive any other materials or emails in your possession Mr. Kosin, which were requested by the zoning board of appeals during the February meeting. I did receive one packet in which the permit issued in 2014 for the rectory septic relocation was added to this special use permit submitted to the zoning board of appeals. I am glad that St. Marks Church is finally taking some positive steps to insure my property no longer is contaminated by fecal matter from their multiple septic systems however I question why it took so long and why the septic relocation was enforced only because of my opposition to the addition to the rectory. Could you please explain? I would very much appreciate you forwarding all materials relevant to this issue that are in your possession so that I may prepare for Monday evenings meeting.

Additionally I am unable to provide at this time, due to an unforeseen emergency, all of my documentation - however I promise to provide copies to all members of the zoning board of appeals and the trustee liaison Colleen Konicek Harrigan (minus Steiper who had recused himself of these proceedings) copies of same via email before Sunday afternoon April 17, 2016. I apologize for the inconvenience.

I am also providing below a series of emails between administrator Kosin and myself. Please review and note that at the St. Marks Church property there exists two separate septic systems - one for the church/school and one for the rectory. Both are located on the same parcel which is identified as a 5 acre parcel (?). This is another very important factor and was not discussed during the February meeting. I also have asked repeatedly - without response - the FAR (floor area ratio) of that property. Special use does not negate the FAR to be considered and enforced.

If the continued rhetoric and consensus of the village and Gewalt Hamilton further believes the FAR does not apply (as stated or alluded to by Kosin) - I ask as a long time tax paying resident of this village that this very same exact sentence be put to writing by the village administrator, the village engineer (Gewalt Hamilton) and also the village attorney.

I thank you in advance for the additional time I need to present documentation and look forward to my complete copy of the village and engineers reports as well as the FAR issue.

Regards
Pauline Boyle

To
[Bob Kosin](mailto:rkosin@barringtonhills-il.gov)

CC
clerk@barringtonhills-il.gov clerk@barringtonhills-il.gov dwolfgram@barringtonhills-il.gov
BCC
statesattorney@lakecountyil.gov
Apr 6 at 10:54 AM

Additionally Mr. Kosin - the property located at St. Marks Church has two septic systems - one for the church/school and one for the rectory. After reviewing the septic structure location provided in the packet - it is apparent that the church/school septic system was left off of this document. Can you please provide the missing documentation and amend the septic location map to include the church/school septic system location and size as this should be included. Thank you

To
[Bob Kosin](#)
CC
clerk@barringtonhills-il.gov clerk@barringtonhills-il.gov dwolfgram@barringtonhills-il.gov
BCC
[Lake County State's Attorney](#)
Apr 6 at 10:43 AM

Thank you for the reminder and please keep me apprised of any time changes - I was neglected being informed last time and arrived hours earlier than the scheduled meeting not knowing the time had been changed.

At the last meeting when I expressed 'certain opinions' I had not been informed of this hearing let alone provided any documents regarding same. Recently I was provided several documents which NOW include structures that were not listed on previous surveys I have in my possession. I will be happy to provide further documentation before the deadline as requested.

Again I am awaiting the FAR calculation for the property located at St Mark Church. I respectfully request that this calculation include building square footage and also to secretly calculate the square footage of paring lot and driveway.

I have noticed the addition of the septic changes to the rectory - obviously there is already questions arising our of septic and stormwater contamination and run off. Can you explain why this was not addressed and included in the first packet?

Thank you and I look forward to receiving your reply
Pauline Boyle

On Apr 6, 2016, at 9:05 AM, Robert Kosin <rkosin@barringtonhills-il.gov> wrote:

Dear Ms. Boyle,
This is to advise you that the ZBA will reconvene it's meeting regarding the application from St. Mark's on Monday April 18th at 7:30PM in the MacArthur Room of the Village Hall.
At the last meeting in February, you expressed certain opinions and concerns regarding septic systems and storm water drainage. In preparation of the upcoming meeting, please provide to the Village Clerk the documents, studies or tests that you referenced in your testimony to the ZBA. Likewise you have advised the Village that the plat of survey of the St. Marks parcel is erroneous and the basis for that opinion should be forward to the Clerk. Please provide this information by Friday April 15th so it can be distributed for the consideration of the ZBA and made part of the public record for the meeting.

www.barringtonhills-il.gov/archive/zoning/ZBA_Archive.html#2016

You need not concern yourself with copies or the format of the documents as all will be addressed through the office of the Village Clerk. Likewise the records can be delivered during regular business hours or sent by email to the address of the Clerk as copied on this email.

Sincerely,
R. Kosin
Director of Administration

President Martin J. McLaughlin
Trustee Colleen Konicek Hannigan
Trustee Fritz Gohl
Trustee Michael Harrington
Trustee Bryan C. Croll
Trustee Michelle Nagy Maison
Trustee Brian D. Cecola



112 Algonquin Road
Barrington Hills, IL 60010
847.551.3000

village@vbhil.gov
www.vbhil.gov

POSTED NOTICE - ZONING BOARD OF APPEALS

The Zoning Board of Appeals, in acting upon variations, special uses, amendments of the zoning ordinance, or appeals from action taken by the Zoning Enforcement Officer, hears all such cases at a public hearing at which neighboring property owners have a right to be heard.

If the subject to the hearing, as stated below, is of concern to you, you will have an opportunity to fully express your opinions whether for or against. For your guidance, a copy of the Zoning Ordinance is available in the Village Hall and online.

If it is inconvenient for you to appear at the hearing, you may file your opinion by letter or email to clerk@vbhil.gov, giving the street and lot number of the property owned by you and for what it is now used. Please state fully what your position is regarding the subject.

You are, by this posting, notified that the subject stated below will be heard at a public hearing at the Village Hall of Barrington Hills. 112 Algonquin Road, Barrington Hills, Illinois 60010-5199.

Date and Time of Hearing: Monday, April 18, 2016 at 7:30 pm

Applicant: Community School District 220 - Countryside Elementary School

Address: 205 W. County Line, Barrington Hills, IL

Subject: Application for the issuance of a special use to permit an exterior non-illuminated asphalt pavement basketball court and remove and replace the existing non-illuminated monument sign.

Chairman Dan Wolfgram
Zoning Board of Appeals
Village of Barrington Hills
Publication Date: March 30, 2016

5-10-7: SPECIAL USES:

(A) Purpose: The development and execution of a zoning ordinance is based upon the division of the Village into districts, within which districts the use of land and buildings and the bulk and location of buildings and structures in relation to the land are substantially uniform. It is recognized, however, that there are special uses which, because of their unique characteristics, cannot be properly classified in any particular district or districts without consideration, in each case, of the impact of those uses upon neighboring land and of the public or private need for the particular use at the particular location. Such special uses fall into two (2) categories:

1. Uses publicly operated or traditionally affected with a public interest.
2. Uses entirely private in character but of such an unusual nature that their operation may give rise to unique problems with respect to their impact upon neighboring property or public facilities.

(B) Initiation of Special Use: An application for a special use may be made by the owner of the subject property, or by another person having an interest therein with the written concurrence of the owner thereof, to use said property for one or more of the special uses provided for in this Zoning Title in the zoning district in which the land is situated.

(C) Application for Special Use: An application for a special use shall be filed in writing with the Enforcing Officer. The application shall contain such information as the Zoning Board of Appeals may from time to time, by rule, require. Notice of the time and place of such public hearing shall be published at least once, not less than fifteen (15) days nor more than thirty (30) days before the hearing in a newspaper of general circulation in the Village. The published notice may be supplemented by such additional form of notice as the Board, by rule, may require.

(D) Authorization: For each application for a special use the Zoning Board of Appeals shall report to the Board of Trustees of the Village its findings and recommendations, including the stipulations of additional conditions and guarantees that such conditions will be complied with when they are deemed necessary for the protection of the public interest.

The Board of Trustees may grant or deny any application for a special use; provided, however, that in the event of written protest against any proposed special use, signed and acknowledged by the owners of twenty percent (20%) of the property adjacent to the property proposed for a special use, and filed with the Village Clerk, such special use shall not be granted except by the favorable vote of two-thirds (2/3) of all the members of the Board of Trustees.

(E) Standards: No special use shall be recommended by the Zoning Board of Appeals unless said Board shall find:

1. That the establishment, maintenance or operation of the special use will not be detrimental to or endanger the public health, safety, morals, comfort or general welfare.
2. That the special use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminish and impair property values within the neighborhood.

5-10-7: SPECIAL USES:

3. That the establishment of the special use will not impede the normal and orderly development and improvement of surrounding property for uses permitted in the district.

4. That adequate utilities, access roads, drainage and/or other necessary facilities have been or are being provided.

5. That adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets and roads.

6. That the special use shall in all other respects conform to the applicable regulations of the district in which it is located, except as such regulations may in each instance be modified by the board of trustees pursuant to the recommendation of the zoning board of appeals.

(F) Conditions And Guaranties: Prior to the granting of any special use, the zoning board of appeals may recommend, and the board of trustees shall stipulate, such conditions and restrictions upon the establishment, location, construction, maintenance and operation of the special use as deemed necessary for the protection of the public interest and to secure compliance with the standards and requirements specified in subsection (E) of this section. In all cases in which special uses are granted, the board of trustees shall require such evidence and guaranties as it may deem necessary as proof that the conditions stipulated in connection therewith are being, and will be, complied with.

(G) Effect Of Denial Of A Special Use: No application for a special use which has been denied wholly or in part by the board of trustees shall be resubmitted for a period of one year from the date of said order of denial, except on the grounds of new evidence or proof of changed conditions found to be valid by the zoning board of appeals and the board of trustees.

(H) Revocation: In any case where a special use has not been established within six (6) months after the date of granting thereof, then without further action by the zoning board of appeals or the board of trustees, the special use authorization shall be null and void. The zoning board of appeals may, upon application filed within said six (6) months, and for good cause, extend said time an additional six (6) months.

(I) Special Uses On Historical Sites: An applicant may request as a unique historical use any permitted and/or special use allowed in any zoning district to be allowed in any other zoning district, subject to compliance with the following conditions:

1. Proof that the subject property or the improvements thereon are of historic value or significance and that preservation of the same will be enhanced, maintained or assisted by permitting the unique use as proposed.

2. Proof that permitting the unique use will be of some affirmative benefit, from a land use or preservation standpoint, to the subject property, the surrounding properties and neighborhood, and the village.

5-10-7: SPECIAL USES:

3. The application shall have the burden of presenting clear and convincing proof that the unique use is justified and proper.

PUBLIC HEARING
Before the Zoning Board of
Appeals,
Village of Barrington Hills
Re: 205 W. County Line
Road

Notice is hereby given that a Public Hearing will be held on Monday April 18, 2016 at 7:30 p.m. or as soon thereafter as the matter may be heard by the Zoning Board of Appeals of the Village of Barrington Hills in the MacArthur Room of the Village Hall, 112 Algonquin Road, concerning the application for an amendment of a Special Use being an educational institution at 205 W. County Line Road ("Subject Property"), subject to the provisions of Section 5-10-7 of the Zoning Ordinance.

The application concerns an amendment of an existing Special Use for Countryside Elementary School as submitted by Community Unit School District 220 to permit the installation of an exterior non-illuminated, asphalt pavement basketball court and remove and replace the existing non-illuminated monument sign.

Pursuant to Section 5-5-3 of the Village Code, Special Uses may be allowed subject to the issuance of a Special Use Permit or an amendment thereof. An application for the amendment for the basketball court and signage has been filed to address the provisions of Section 5-10-7 of the Zoning Ordinance containing there in the legal description of the Subject Property generally at the Southwest corner of Brinker and County Line Roads being approximately 15.2 acres and having the common postal address of 205 W. County Line Road [REIN 01-03-100-005 and 01-03-100-011].

A copy of the application to amend the Special Use is available for examination at the office of the Village Clerk at Barrington Hills Village Hall during the customary hours of operation. All interested parties are invited to attend the Public Hearing and will be given an opportunity to be heard.

Daniel Wolfgram, Chairman

Zoning Board of Appeals
Village of Barrington Hills
Published in Daily Herald
March 30, 2016 (4436523)

CERTIFICATE OF PUBLICATION

Paddock Publications, Inc.

Daily Herald

Corporation organized and existing under and by virtue of the laws of the State of Illinois, DOES HEREBY CERTIFY that it is the publisher of the **DAILY HERALD**. That said **DAILY HERALD** is a secular newspaper and has been circulated daily in the Village(s) of Algonquin, Antioch, Arlington Heights, Aurora, Barrington, Barrington Hills, Lake Barrington, North Barrington, South Barrington, Bartlett, Batavia, Buffalo Grove, Burlington, Campton Hills, Carpentersville, Cary, Deer Park, Des Plaines, South Elgin, East Dundee, Elburn, Elgin, Elk Grove Village, Fox Lake, Fox River Grove, Geneva, Gilberts, Grayslake, Green Oaks, Gurnee, Hainesville, Hampshire, Hanover Park, Hawthorn Woods, Hoffman Estates, Huntley, Inverness, Island Lake, Kildeer, Lake Villa, Lake in the Hills, Lake Zurich, Libertyville, Lincolnshire, Lindenhurst, Long Grove, Mt. Prospect, Mundelein, Palatine, Prospect Heights, Rolling Meadows, Round Lake, Round Lake Beach, Round Lake Heights, Round Lake park, Schaumburg, Sleepy Hollow, St. Charles, Streamwood, Tower Lakes, Vernon Hills, Volo, Wauconda, Wheeling, West Dundee, Wildwood, Sugar Grove, North Aurora

County(ies) of Cook, Kane, Lake, McHenry

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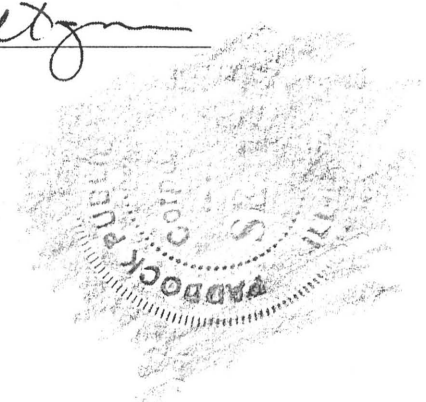
I further certify that the **DAILY HERALD** is a newspaper as defined in "an Act to revise the law in relation to notices" as amended in 1992 Illinois Compiled Statutes, Chapter 7150, Act 5, Section 1 and 5. That a notice of which the annexed printed slip is a true copy, was published March 30, 2016 in said **DAILY HERALD**.

IN WITNESS WHEREOF, the undersigned, the said **PADDOCK PUBLICATIONS, Inc.**, has caused this certificate to be signed by, this authorized agent, at Arlington Heights, Illinois.

PADDOCK PUBLICATIONS, INC.
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BY *Danula Baltz*
Authorized Agent

Control # 4436523



PART SIX CERTIFIED MAIL RECEIPTS / NOTIFICATION SIGN

Section Includes:

- The District has mailed certified notification letters to the surrounding property owners not more than 30 days and not less than 15 days prior to the Village of Barrington Hills Board meeting.
(Copies of the Certified Mail Receipts are attached.)
- The District placed a Notification Sign on the subject property on March 31, 2016.
(Photograph of the sign is attached.)

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Street and Apt. No., or PO Box No. <u>507 Audubon Blvd. #301</u>		
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<p>1. Article Addressed to:</p> <p style="text-align: center;">Nam S. Hug 231 W. County Line Road Barrington Hills, IL 60010</p>		
 9590 9402 1270 5246 3559 54	<p>3. Service Type</p> <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery	
<p>2. Article Number (Transfer from service label)</p> <p>7015 1520 0003 0365 7601</p>	<p>Restricted Delivery</p>	
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<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Harlan Miller</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery <i>Harlan Miller</i> <i>3/2</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>1. Article Addressed to:</p> <p style="text-align: center;">Harlan Miller 11 W. County Line Road Barrington, IL 60010</p>		
 9590 9402 1270 5246 3559 23	<p>3. Service Type</p> <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery	
<p>2. Article Number (Transfer from service label)</p> <p>7015 1520 0003 0365 7557</p>	<p>Restricted Delivery</p>	
PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt		

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Richard Panichi</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>1. Article Addressed to:</p> <p style="text-align: center;">Richard Panichi 215 W. County Line Road Barrington, IL 60010</p>		
 9590 9402 1270 5246 3558 31	<p>3. Service Type</p> <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery	
<p>2. Article Number (Transfer from service label)</p> <p>7015 1520 0003 0365 7502</p>	<p>Restricted Delivery</p>	
PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt		

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Thomas E. Allaway</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>1. Article Addressed to:</p> <p style="text-align: center;">Thomas E. Allaway 7 Brinker Road Barrington, IL 60010</p>		
 9590 9402 1270 5246 3559 09	<p>3. Service Type</p> <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery	
<p>2. Article Number (Transfer from service label)</p> <p>7015 1520 0003 0365 7571</p>	<p>Restricted Delivery</p>	
PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt		

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY												
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>X</p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p style="text-align: right;">3/31/16</p>												
<p>1. Article Addressed to:</p> <p style="text-align: center;">Pagnotta LLC 320 Oak Knoll Road Barrington, IL 60010</p>  <p style="text-align: center;">9590 9402 1270 5246 3559 47</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p style="text-align: center;"><i>[Handwritten Signature]</i></p>												
<p>2. Article Number (Transfer from service label)</p> <p style="text-align: center;">7015 1520 0003 0365 7618</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input checked="" type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input checked="" type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®												
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™												
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery												
<input type="checkbox"/> Certified Mail Restricted Delivery	<input checked="" type="checkbox"/> Return Receipt for Merchandise												
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™												
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery												
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>													

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<p>1. Article Addressed to:</p> <p style="text-align: center;">John & Maria Kuechmann 229 W. County Line Road Barrington, IL 60010</p>  <p style="text-align: center;">9590 9402 1270 5246 3559 16</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>												
<p>2. Article Number (Transfer from service label)</p> <p style="text-align: center;">7015 1520 0003 0365 7564</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input checked="" type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input checked="" type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®												
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™												
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery												
<input type="checkbox"/> Certified Mail Restricted Delivery	<input checked="" type="checkbox"/> Return Receipt for Merchandise												
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™												
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery												
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>													

SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3.
Print your name and address on the reverse so that we can return the card to you.
Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Presbyterian Church of Barrington
6 Brinker Road
Barrington Hills, IL 60010



Article Number (Transfer from service label)

7015 1520 0003 0365 7519

Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
[Signature] Agent Addressee
B. Received by (Printed Name) *[Signature]* C. Date of Delivery *3/25/16*

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Adult Signature Priority Mail Express®
 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3.
Print your name and address on the reverse so that we can return the card to you.
Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Stella F. Wenner Trust
567 Audubon Blvd. #301
Naples, FL 34110



2. Article Number (Transfer from service label)

7015 1520 0003 0365 7540

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
[Signature] Agent Addressee
B. Received by (Printed Name) *F. WENNER* C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Adult Signature Priority Mail Express®
 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3.
Print your name and address on the reverse so that we can return the card to you.
Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Michael J. Miller
11 Steeplechase Road
Barrington Hills, IL 60010-0363



Article Number (Transfer from service label)

7015 1520 0003 0365 7595

Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
[Signature] Agent Addressee
B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Adult Signature Priority Mail Express®
 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3.
Print your name and address on the reverse so that we can return the card to you.
Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Nicholas Isaacson
1 Bellwood Drive
Barrington, IL 60010-2653



2. Article Number (Transfer from service label)

7015 1520 0003 0365 7588

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
[Signature] Agent Addressee
B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Adult Signature Priority Mail Express®
 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

R. J. Cashmore
 9 Brinker Road
 Barrington, IL 60010



9590 9402 1270 5246 3558 93

2. Article Number (Transfer from service label)

7015 1520 0003 0365 7526

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *[Handwritten Signature]* Agent Addressee

B. Received by (Printed Name) C. Date of Delivery
Parndon Marcus *4/5/16*

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

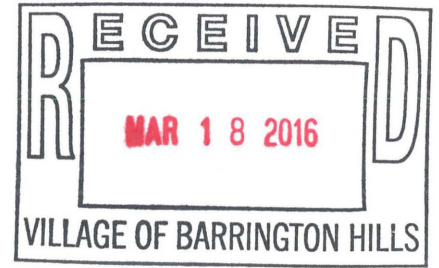
3. Service Type
- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input checked="" type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input checked="" type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |

Restricted Delivery



VILLAGE OF BARRINGTON HILLS
**Notice
of a
Public
Hearing**
will be held at 7:30 p.m. April 18, 2016,
at Barrington Hills Village Hall,
111 Algonquin Road
Regarding an amendment of an existing
Special Use for Community Elementary School
RZIN 01-05-100-007
RZIN 01-05-100-011
By Community Use School District 229 before
the Zoning Board of Appeals (VZ02, 5-10-83)
Daniel Wolfgram
Chairman, ZBA
847-511-5000

**Petition to Amend
Special Use Permit**
Village of Barrington Hills



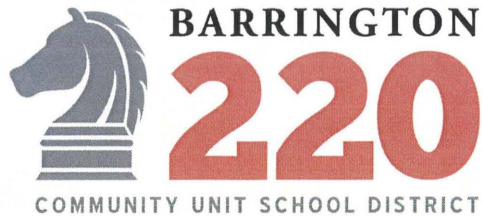
Subject Property:
Countryside Elementary School
205 W. County Line Road
Barrington Hills, Illinois 60010

Submitted By:
Community Unit School District 220
310 James Street
Barrington, Illinois 60010



Issue Date:
March 18, 2016

Prepared By:
Barrington Community Unit School District 220
Cashman Stahler Group
Gewalt Hamilton Associates, Inc.



March 18, 2016

Village of Barrington Hills
112 Algonquin Road
Barrington Hills, Illinois 60010

RE: Petition to Amend Special Use Permit
Countryside School
205 West County Line Road
Barrington Hills, Illinois

Dear Members of the Zoning Board:

Community Unit School District 220 has prepared this submittal to Amend the Special Use Permit. This submission seeks the Village of Barrington Hills' approval to amend the current Special Use Permit for Countryside School in Barrington Hills, Illinois.

The District is contemplating the following site improvements:

1. Construction of a new asphalt pavement basketball court.
2. Removal and replacement of the existing monument sign presently located on the property with a new monument sign.

We look forward to working with the Village as we endeavor to improve the existing site to enhance student services.

Sincerely,

A handwritten signature in black ink, appearing to read "Timothy Neubauer". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Timothy Neubauer
Assistant Superintendent for Business Services

TN:jv

Table of Contents

Part 1	Application
Part 2	List and Map of Surrounding Property Owners
Part 3	Property Legal Description / Current Legal Plat of Survey
Part 4	Project Summary
Part 5	Project Drawings
Part 6	Certified Mail Receipts
Part 7	Zoning Map

Supplemental Exhibits (Full-Scale Drawings)

Plat of Survey
Site Plan - Existing Conditions
Site Plan - Proposed Conditions

PART ONE APPLICATION

Section Includes:

- Special Use Application Worksheet
- Affidavit of Ownership
- Application Fee (Copy of Payment)
(An application fee has been submitted separate from this application. A copy of the payment has been included.)

PART ONE SPECIAL USE APPLICATION WORKSHEET

- 1. The establishment, maintenance or operation of the special use will not be detrimental to or endanger the public health, safety, morals, comfort or general welfare.**

The District's continuous presence at the site indicates that the establishment, maintenance, and operation of the present school as a Special Use has not been, nor will it be, detrimental to nor endanger the public health, safety, comfort, morals or general welfare.

The new proposed site improvements, which are similar in character, use and quality to the present site improvements, will not detrimentally impact, or materially alter the existing Special Use that has been established, maintained and in continuous operation on the property.

- 2. The special use will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, not substantially diminished and impair property values within the neighborhood.**

The purpose of the new asphalt basketball court site improvement is for the enhancement of the present instructional services uses afforded the students. The additional paved play surface is an expansion of present site play surfaces available to the students.

The replacement of the existing site monument sign is for the purposes of upgrading the condition and character of the existing sign to match the District's exterior sign program in place at the other District properties in the surrounding communities.

The site improvements will not be injurious to the use and enjoyment of other property in the immediate vicinity nor substantially diminish or impair property values within the neighborhood.

- 3. The establishment of the special use will not impede the normal and orderly development and improvement of surrounding property for uses permitted in the district.**

The existing school and school property are essential elements of the community and neighborhood. The new site improvements are similar in character to existing site improvements presently on the school property. As such they will not impede the normal and orderly development and improvement of surrounding property for uses permitted in the district.

4. Adequate utilities, access roads, drainage and/or other necessary facilities have been or are being provided.

All existing utilities (i.e., electrical service, gas service, well and domestic water service, septic field and sanitary service) for the building are adequate and will be unchanged by the proposed improvements.

All existing access roads will be unchanged by the proposed improvements.

The existing storm water management system design for the existing site and building impervious areas will be materially unchanged. The proposed new impervious asphalt surface will have no adverse affects on the surrounding properties and will be in compliance with local governing authority regulations.

5. Adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets and roads.

The proposed site improvements will not necessitate the modification of the existing, established vehicular and pedestrian traffic ingress and egress to the property, or traffic circulation patterns or congestion in the public streets and roads surrounding the property.

6. The special use shall in all other respects conform to the applicable regulations of the district in which it is located, except as such regulations may in each instance be modified by the Board of Trustees pursuant to the recommendation of the zoning board of appeals.

The proposed site modifications will conform with all applicable regulations.

Therefore, the Barrington Community Unit School District 220 requests the Village of Barrington Hills amend the Countryside School Special Use and grant the District permission to build a new asphalt basketball court and replace the existing site monument sign.

The undersigned confirms to have read the foregoing application and acknowledges to the best of their knowledge that all information contained within this request to amend the Special Use is true and accurate.



Signature



Date

Mr. Timothy Neubauer
Assistant Superintendent for Business Service
Barrington Community Unit School District 220
310 James Street
Barrington, Illinois 60010

AFFIDAVIT OF OWNERSHIP

COUNTY OF Lake)
) SS

STATE OF ILLINOIS)

I, Timothy Neubauer, under oath, state that I
am
(Print Name)

- the sole owner of the property
- an owner of the property
- an authorized officer for the owner of the property

commonly described as Countryside Elementary School
205 W. County Line Road
Barrington Hills, IL 60010

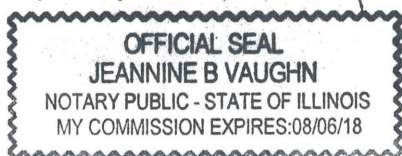
and that such property is owned by Barrington Community Unit as of
 this date. School District 220

[Handwritten Signature]
 (Signature)

SUBSCRIBED AND SWORN TO BEFORE ME THIS

14th DAY OF March, 2016

[Handwritten Signature]
 (Notary Public)





Cashman Stahler Group
1910 S. Highland Ave. Suite 310
Lombard, IL 60148
(630) 889-8800

JPMORGAN CHASE BANK, NA
Chicago, IL 60670
02-001/710

8444

3/18/2016

PAY TO THE ORDER OF Village of Barrington Hills

\$ **200.00

Two Hundred and 00/100 ***** DOLLARS

Village of Barrington Hills

▲ TAMPER RESISTANT TONER AREA ▲

MEMO
Countryside School Special Use Permit

⑈008444⑈

CASHMAN STAHLER GROUP

8444

Village of Barrington Hills
Legal & Professional Services:Architectur

3/18/2016

200.00

CSG Checking Countryside School Special Use Permit

200.00

CASHMAN STAHLER GROUP

8444

Village of Barrington Hills
Legal & Professional Services:Architectur

3/18/2016

200.00

PAYMENT RECORD

CSG Checking Countryside School Special Use Permit

200.00



© 2011 INTUIT INC. # 1725 1-800-433-8810

PART TWO LIST AND MAP OF SURROUNDING PROPERTY OWNERS

Section Includes:

- Surrounding Property Owners Notification Map
- List of Surrounding Property Owners

Legend

- Project Location
- 250' Buffer
- Parcels within 250'
- Parcel Boundaries

PIN: 1334300008
 Site Addr: 1 BELLWOOD DR
 BARRINGTON, IL 60010-2653
 Owner: NICHOLAS ISAACSON

PIN: 1334302005
 Site Addr: 10 STEEPLECHASE RD
 BARRINGTON, IL 60010
 Owner: STEPHEN V & KIMBERLY A D'AMORE

PIN: 1334300009
 Site Addr: 9 STEEPLECHASE RD
 BARRINGTON HILLS, IL 60010
 Mail Addr: 567 AUDUBON BLVD #301
 NAPLES, FL 34110
 Owner: STELLA F WENNER TRUST

PIN: 1334301009
 Site Addr: 11 STEEPLECHASE RD
 BARRINGTON HILLS, IL 60011-0363
 Owner: MICHAEL J MILLER

PIN: 1334300010
 Site Addr: 27676 W COUNTY LINE RD
 BARRINGTON HILLS, IL 60010
 Mail Addr: 11 W COUNTY LINE RD
 BARRINGTON, IL 60010
 Owner: HARLAN MILLER

PIN: 0103100012
 Site Addr: 218 W COUNTY LINE RD
 BARRINGTON, IL 60010
 Owner: RICHARD PANICHI

PIN: 0103100011
 Site Addr: 205 W COUNTY LINE RD
 BARRINGTON, IL 60010
 Owner: EXEMPT
 BARRINGTON COUNTRYSIDE
 ELEMENTARY SCHOOL DIST. 220

PIN: 0103100005
 Site Addr: 205 W COUNTY LINE RD
 BARRINGTON, IL 60010
 Owner: EXEMPT
 BARRINGTON COUNTRYSIDE
 ELEMENTARY SCHOOL DIST. 220

PIN: 0103101022
 Site Addr: 409 W COUNTY LINE RD
 BARRINGTON HILLS, IL 60010
 Mail Addr: 320 OAK KNOLL RD
 BARRINGTON, IL 60010
 Owner: PAGNOTTA LLC

PIN: 0103101037
 Site Addr: 3 BRINKER RD
 BARRINGTON HILLS, IL 60010
 Mail Addr: 320 OAK KNOLL RD
 BARRINGTON, IL 60010
 Owner: PAGNOTTA LLC

PIN: 0103100007
 Site Addr: 229 W COUNTY LINE RD
 BARRINGTON, IL 60010
 Owner: JOHN & MARIA KUECHMANN

PIN: 0103100009
 Site Addr: 6 BRINKER RD
 BARRINGTON HILLS, IL 60010
 Owner: (EXEMPT) PRESBYTERIAN CHURCH OF BARRINGTON

PIN: 0103101036
 Site Addr: 7 BRINKER RD
 BARRINGTON, IL 60010
 Owner: THOMAS E ALLAWAY

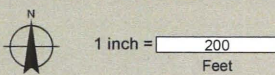
PIN: 0103100039
 Site Addr: 231 W COUNTY LINE RD
 BARRINGTON HILLS, IL 60010
 Owner: NAM S HUH

PIN: 0103101035
 Site Addr: 9 BRINKER RD
 BARRINGTON, IL 60010
 Owner: R J CASHMORE

Source: Cook County GIS, Lake County GIS, ESRI World Imagery



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Geomatics, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Notification Map

Countryside School
 Barrington Hills, IL

Map Center: -88.17701 42.15310

Date: 2/19/2016 Project: 3613.000

Drawn By: gnewton File: G:\3600\3613\GIS\NotificationMap.mxd

PART TWO LIST OF SURROUNDING PROPERTY OWNERS

PIN: 1334300008

1 BELLWOOD DR
BARRINGTON, IL 60010-2653
Owner: NICHOLAS ISAACSON

PIN: 1334300009

9 STEEPLECHASE RD
BARRINGTON HILLS, IL 60010

Mailing Address

567 AUDUBPN BLVD #301
NAPLES, FL 34110
Owner: STELLA F WENNER TRUST

PIN: 1334302005

10 STEEPLECHASE RD
BARRINGTON, IL 60010
Owner: STEPHEN V & KIMBERLY A D'AMORE

PIN: 1334301009

11 STEEPLECHASE RD
BARRINGTON HILLS, IL 60011-0363
Owner: MICHAEL J MILLER

PIN: 1334300010

27676 W COUNTY LINE RD
BARRINGTON HILLS, IL 60010

Mailing Address

11 W COUNTY LINE RD
BARRINGTON, IL 60010
Owner: HARLAN MILLER

PIN: 0103100012

215 W COUNTY LINE RD
BARRINGTON, IL 60010
Owner: RICHARD PANICHI

PIN: 0103100011

205 W COUNTY LINE RD
BARRINGTON, IL 60010
Owner: EXEMPT
BARRINGTON SCHOOL DIST. 220

PIN: 0103100005
205 W COUNTY LINE RD
BARRINGTON, IL 60010
Owner: EXEMPT
BARRINGTON SCHOOL DISTRICT 220

PIN: 0103100039
231 W COUNTY LINE RD
BARRINGTON HILLS, IL 60010
Owner: NAM S HUH

PIN: 0103100007
229 W COUNTY LINE RD
BARRINGTON, IL 60010
Owner: JOHN & MARIA KUECHMANN

PIN: 0103100009
6 BRINKER RD
BARRINGTON HILLS, IL 60010
Owner: (EXEMPT) PRESBYTERIAN CHURCH OF BARRINGTON

PIN: 1334301009
11 STEEPLECHASE RD
BARRINGTON HILLS, IL 60011-0363
Owner: MICHAEL J MILLER

PIN: 1334300010
27676 W COUNTY LINE RD
BARRINGTON HILLS, IL 60010

Mailing Address
11 W COUNTY LINE RD
BARRINGTON, IL 60010
Owner: HARLAN MILLER

PIN: 0103101022
409 W COUNTY LINE RD
BARRINGTON HILLS, IL 60010

Mailing Address
320 OAK KNOLL RD
BARRINGTON, IL 60010
Owner: PAGNOTTA LLC

PIN: 0103101037

3 BRINKER RD
BARRINGTON HILLS, IL 60010
Mailing Address
320 OAK KNOLL RD
BARRINGTON, IL 60010
Owner: PAGNOTTA LLC

PIN: 0103101036

7 BRINKER RD
BARRINGTON, IL 60010
Owner: THOMAS E ALLAWAY

PIN: 0103101035

9 BRINKER RD
BARRINGTON, IL 60010
Owner: R J CASHMORE

PART THREE

**CURRENT PROPERTY LEGAL DESCRIPTION AND
PLAT OF SURVEY**

Section Includes:

- Current Property Legal Description
(An enlargement version of the Legal Description noted on the Plat of Survey)
- Current Legal Plat of Survey (Reduced Scale)
(A full-size Plat of Survey with the Legal Description for this property has been issued as an attachment to this document.)

PART THREE

CURRENT PROPERTY LEGAL DESCRIPTION

PARCEL 1:

THAT PART OF THE WEST 1/2 OF THE NORTHWEST 1/4 OF SECTION 3, TOWNSHIP 42 NORTH, RANGE 9, EAST OF THE THIRD PRINCIPAL MERIDIAN DESCRIBED AS FOLLOWS: BEGINNING ON THE NORTH LINE OF SAID NORTHWEST 1 /4, 505.3 FEET EAST OF THE NORTHWEST CORNER THEREOF; THENCE EAST ON THE NORTH LINE OF SAID NORTHWEST 1/4, 800 FEET TO THE CENTER LINE OF PUBLIC ROAD EXTENDING SOUTH FROM COUNTY LINE ROAD; THENCE SOUTH ON CENTER LINE OF SAID NORTH AND SOUTH PUBLIC ROAD, 660 FEET; THENCE WEST PARALLEL WITH THE NORTH LINE OF SAID NORTHWEST 1 /4, 800 FEET TO A POINT 506.4 FEET EAST OF THE WEST LINE OF SAID NORTHWEST 1/4 (AS MEASURED ON A LINE PARALLEL WITH THE NORTH LINE THEREOF) ; THENCE NORTH ON A STRAIGHT LINE, 660 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

PARCEL 2:

THAT PART OF THE WEST 1/2 OF THE NORTHWEST 1/4 OF SECTION 3, TOWNSHIP 42 NORTH, RANGE 9, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF THE NORTHWEST 1/4 OF SAID SECTION AND RUNNING THENCE NORTH 89 DEGREES, 51 MINUTES, 30 SECONDS EAST ALONG THE NORTH LINE THEREOF 505.3 FEET TO THE POINT OF BEGINNING: THENCE SOUTH 00 DEGREES, 08 MINUTES, 30 SECONDS EAST ON A STRAIGHT LINE, 660 FEET TO A POINT WHICH IS 506.40 FEET EAST OF THE WEST LINE OF SAID SECTION; THENCE WEST AND PARALLEL WITH THE NORTH LINE OF SAID SECTION 219 FEET; THENCE NORTH 0 DEGREES, 8 MINUTES, 30 SECONDS WEST, 660 FEET TO THE NORTH LINE OF SAID 1 /4 SECTION; THENCE EAST ALONG THE NORTH LINE OF SAID 1 /4 SECTION TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS:

PART FOUR PROJECT SUMMARY

Basketball Court

The Barrington Community Unit School District 220 is proposing the installation of an exterior asphalt basketball court. The specifics of the new court are as follows:

- Maximum Court Size: Fifty (50) feet by ninety four (94) feet.
- Maximum New Hard Surface: Sixty (60) feet by one hundred four (104) feet.
- The basketball court will be non-illuminated.
- The basketball court will increase the existing impervious site area by 0.14 acres.
- The basketball court storm water will sheet drain to the existing detention basin located on the east side of the property. In accordance with the Village of Barrington Hills storm water management requirements, the proposed increase in the impervious site area does not exceed the threshold required to provide additional storm water detention on the project site.

Exterior Monument Sign

The School District is proposing the replacement of the existing wood and stone monument sign with a new “District standard” monument sign similarly located on property. The specifics of the new sign are as follows:

- The sign will be a non-illuminated, two-sided, fixed monument sign.
- Sign base construction will include, concrete footing/foundation, brick veneer and stone cap masonry monument base.
- Sign cabinet will be an aluminum frame and aluminum face panel cabinet assembly. Sign cabinet finish color will be dark anodized bronze. Lettering and graphics will be black, white and red.
- Lower portion of sign cabinet panel faces will incorporate an attraction display board with manually changeable reflective lettering to post relevant community and school events. Overall area of sign attraction display board is twenty (20) square feet.
- Upper portion of sign cabinet faces will incorporate District and School identification and logo display. Overall area of sign identification and logo display face is twenty-four (24) square feet.
-

PART FIVE DRAWINGS

Section Includes:

New Basketball Court

- Existing Conditions Site Plan
- Proposed Conditions Site Plan

New Monument Sign

- Proposed Sign Location
- Proposed Sign Elevation
- Proposed Sign Foundation Construction
- Proposed Sign Cabinet Construction
- District Standard Sign Photograph
- Existing Sign Photograph

PN: 13-34-300-008
 ADDRESS: 1 BELLWOOD DR
 BARRINGTON, IL 60010
 MAIL ADDRESS: 1 BELLWOOD DR
 BARRINGTON, IL 60010
 OWNER: NICHOLAS ISAACSON

PN: 13-34-300-009
 ADDRESS: 8 STEEPLCHASE RD
 BARRINGTON HILLS, IL 60010
 MAIL ADDRESS: 267 ADDISON BLVD #301
 NAPLES, FL 34110
 OWNER: STELLA F. WOHNER TRUST

PN: 13-34-302-005
 ADDRESS: 10 STEEPLCHASE ROAD
 BARRINGTON, IL 60010
 MAIL ADDRESS: 10 STEEPLCHASE ROAD
 BARRINGTON, IL 60010
 OWNER: STEPHEN V & KIMBERLY A D'AMORE

PN: 13-34-301-009
 ADDRESS: 11 STEEPLCHASE RD
 BARRINGTON HILLS, IL 60011
 MAIL ADDRESS: 11 STEEPLCHASE RD
 BARRINGTON HILLS, IL 60011
 OWNER: MICHAEL J. MILLER

PN: 13-34-300-010
 ADDRESS: 17678 W COUNTY LINE RD
 BARRINGTON HILLS, IL 60010
 MAIL ADDRESS: 17 W COUNTY LINE RD
 BARRINGTON, IL 60010
 OWNER: HARLAN WELER

PN: 01-03-100-012
 ADDRESS: 215 W COUNTY LINE RD
 BARRINGTON, IL 60010
 MAIL ADDRESS: 215 W COUNTY LINE RD
 BARRINGTON, IL 60010
 OWNER: RICHARD PANICH

PN: 01-03-101-024
 ADDRESS: 409 W COUNTY LINE RD
 BARRINGTON HILLS, IL 60010
 MAIL ADDRESS: 233 ONE OAKLAND ROAD
 BARRINGTON, IL 60010
 OWNER: PAGOITA LLC

PN: 01-03-101-037
 ADDRESS: 1 BARRINGER RD
 BARRINGTON, IL 60010
 MAIL ADDRESS: 133 ONE OAK ROAD
 BARRINGTON, IL 60010
 OWNER: PAGOITA LLC

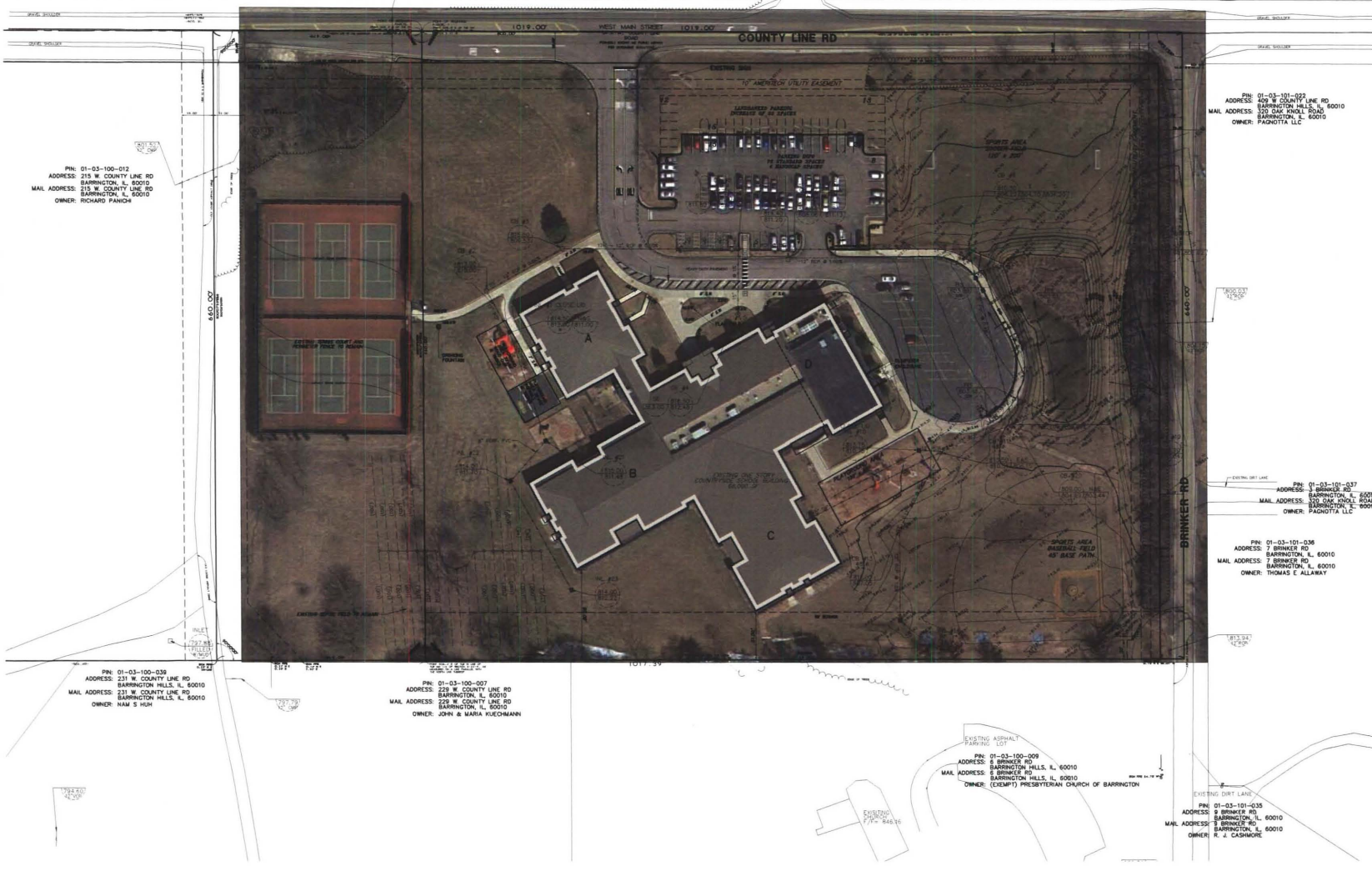
PN: 01-03-101-038
 ADDRESS: 7 BRINKER RD
 BARRINGTON, IL 60010
 MAIL ADDRESS: 7 BRINKER RD
 BARRINGTON, IL 60010
 OWNER: THOMAS E ALLAWAY

PN: 01-03-100-039
 ADDRESS: 231 W COUNTY LINE RD
 BARRINGTON HILLS, IL 60010
 MAIL ADDRESS: 231 W COUNTY LINE RD
 BARRINGTON HILLS, IL 60010
 OWNER: NAM S HUH

PN: 01-03-100-007
 ADDRESS: 228 W COUNTY LINE RD
 BARRINGTON, IL 60010
 MAIL ADDRESS: 228 W COUNTY LINE RD
 BARRINGTON, IL 60010
 OWNER: JOHN & MARIA KUCIEMAN

PN: 01-03-100-009
 ADDRESS: 6 BRINKER RD
 BARRINGTON HILLS, IL 60010
 MAIL ADDRESS: 6 BRINKER RD
 BARRINGTON HILLS, IL 60010
 OWNER: (EXEMPT) PRESBYTERIAN CHURCH OF BARRINGTON

PN: 01-03-101-035
 ADDRESS: 9 BRINKER RD
 BARRINGTON, IL 60010
 MAIL ADDRESS: 9 BRINKER RD
 BARRINGTON, IL 60010
 OWNER: R. J. CASHMIRE



GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive • Vernon Hills, IL 60061
 TEL 847.478.9700 • FAX 847.478.9701

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EXISTING CONDITIONS
 COUNTRYSIDE SCHOOL
 BARRINGTON COMMUNITY UNIT SCHOOL DISTRICT 220
 VILLAGE OF BARRINGTON HILLS, ILLINOIS

NO.	DATE	REVISION

FILE: 3613-Countryside-Bldg-2015.dwg	SHEET NUMBER
DRAWN BY: WED	GHA PROJECT #
DATE: 2-23-16	3616.000
CHECKED BY:	SCALE
DATE:	1"=50'
	OF 2 SHEETS

1

PN: 13-34-300-008
 ADDRESS: 1 BELWOOD DR
 BARRINGTON, IL 60010
 MAIL ADDRESS: 1 BELWOOD DR
 BARRINGTON, IL 60010
 OWNER: NICHOLAS GRASZON

PN: 13-34-300-009
 ADDRESS: 9 STEEPLCHASE RD
 BARRINGTON HILLS, IL 60010
 MAIL ADDRESS: 867 AUDUBON BLVD #301
 BARRINGTON, IL 60010
 OWNER: STELLA F WENNER TRUST

PN: 13-34-302-001
 ADDRESS: 10 STEEPLCHASE ROAD
 BARRINGTON, IL 60010
 MAIL ADDRESS: 10 STEEPLCHASE ROAD
 BARRINGTON, IL 60010
 OWNER: STEPHEN V & ANIBERLY A D'AMORE

PN: 13-34-301-009
 ADDRESS: 11 STEEPLCHASE RD
 BARRINGTON HILLS, IL 60011
 MAIL ADDRESS: 11 STEEPLCHASE RD
 BARRINGTON HILLS, IL 60011
 OWNER: MICHAEL J MILLER

PN: 13-34-300-010
 ADDRESS: 217A W COUNTY LINE RD
 BARRINGTON HILLS, IL 60010
 MAIL ADDRESS: 11 W COUNTY LINE RD
 BARRINGTON, IL 60010
 OWNER: HARLAN MILLER

PN: 01-03-100-012
 ADDRESS: 215 W COUNTY LINE RD
 BARRINGTON, IL 60010
 MAIL ADDRESS: 215 W COUNTY LINE RD
 BARRINGTON, IL 60010
 OWNER: RICHARD PANCH

PN: 01-03-101-027
 ADDRESS: 428 W COUNTY LINE RD
 BARRINGTON HILLS, IL 60010
 MAIL ADDRESS: 370 OAK KNOLL ROAD
 BARRINGTON, IL 60010
 OWNER: PAGNOTTA LLC

PN: 01-03-101-037
 ADDRESS: 8 BRINCKER RD
 BARRINGTON, IL 60010
 MAIL ADDRESS: 333 OAK KNOLL ROAD
 BARRINGTON, IL 60010
 OWNER: PAGNOTTA LLC

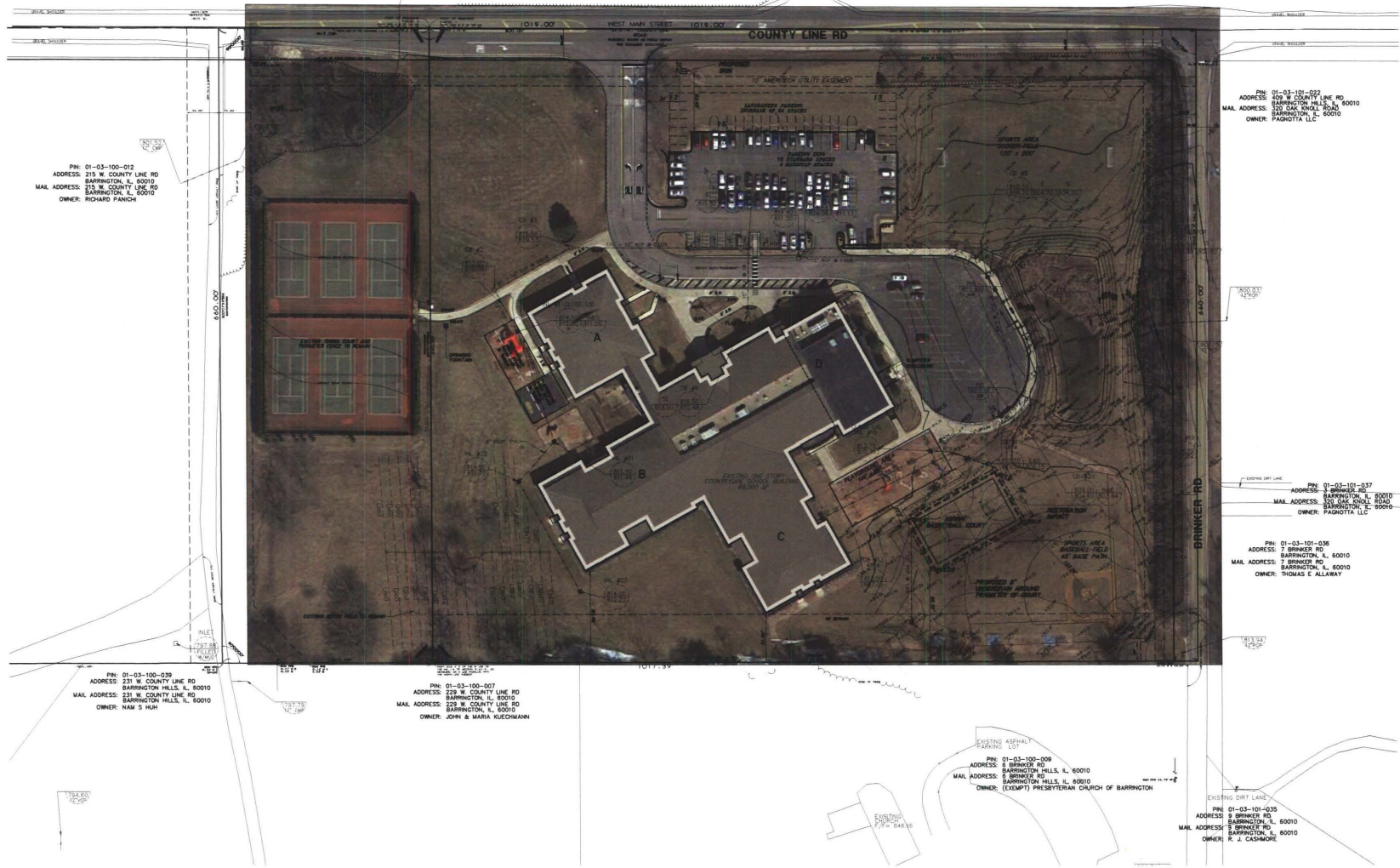
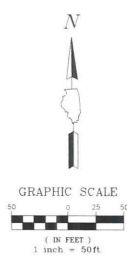
PN: 01-03-101-036
 ADDRESS: 7 BRINCKER RD
 BARRINGTON, IL 60010
 MAIL ADDRESS: 7 BRINCKER RD
 BARRINGTON, IL 60010
 OWNER: THOMAS E ALLAWAY

PN: 01-03-100-039
 ADDRESS: 231 W COUNTY LINE RD
 BARRINGTON HILLS, IL 60010
 MAIL ADDRESS: 231 W COUNTY LINE RD
 BARRINGTON HILLS, IL 60010
 OWNER: NAM S HUH

PN: 01-03-100-007
 ADDRESS: 228 W COUNTY LINE RD
 BARRINGTON, IL 60010
 MAIL ADDRESS: 228 W COUNTY LINE RD
 BARRINGTON, IL 60010
 OWNER: JOHN & MARIA KUECHMANN

PN: 01-03-100-009
 ADDRESS: 8 BRINCKER RD
 BARRINGTON HILLS, IL 60010
 MAIL ADDRESS: 8 BRINCKER RD
 BARRINGTON HILLS, IL 60010
 OWNER: (COUNTY) PRESBYTERIAN CHURCH OF BARRINGTON

PN: 01-03-101-035
 ADDRESS: 8 BRINCKER RD
 BARRINGTON, IL 60010
 MAIL ADDRESS: 8 BRINCKER RD
 BARRINGTON, IL 60010
 OWNER: R. J. CASHMIRE



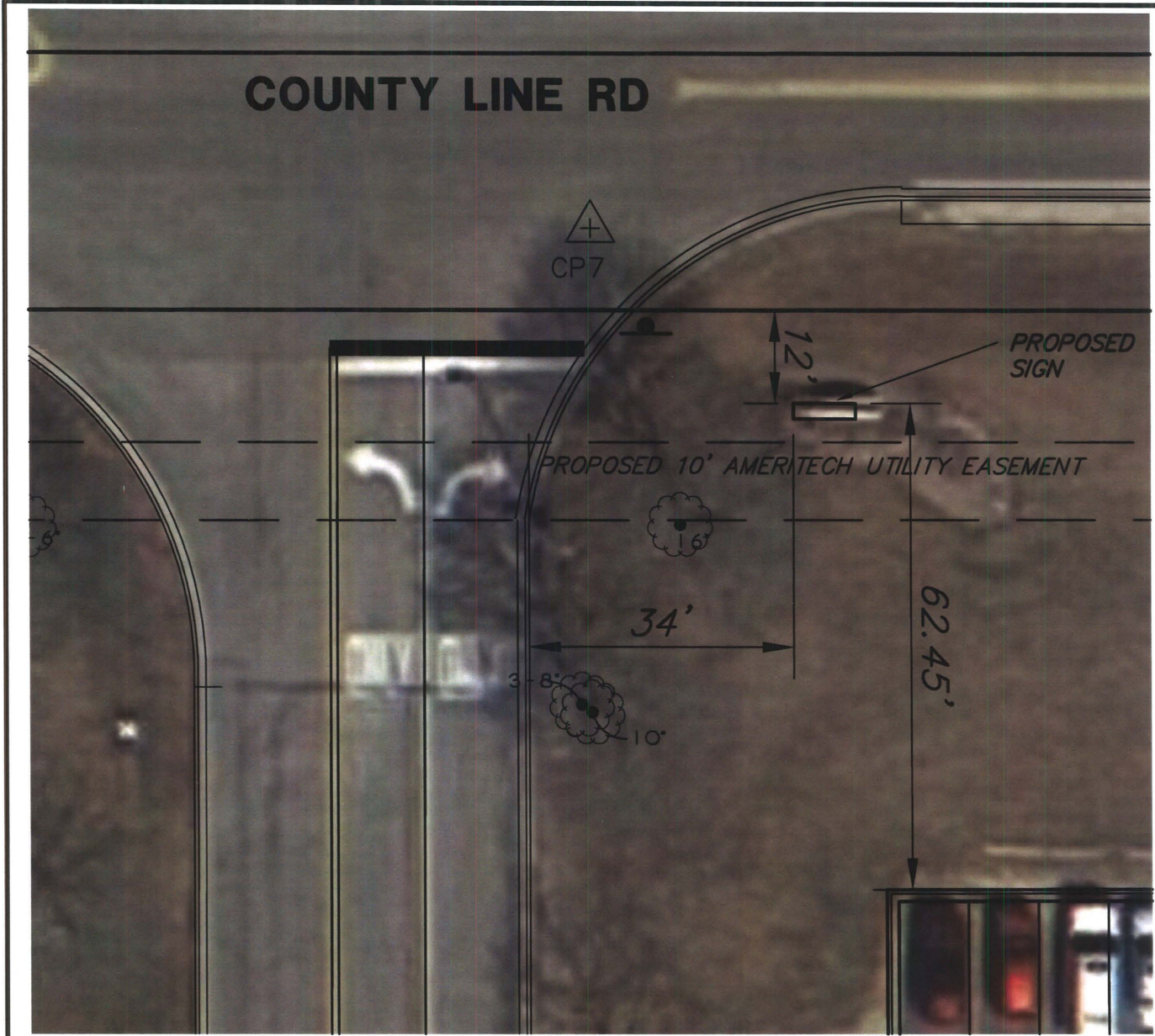
GHA GEWALT HAMILTON ASSOCIATES, INC.
 625 Forest Edge Drive ■ Vernon Hills, IL 60061
 TEL 847.478.9700 ■ FAX 847.478.9701

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PROPOSED CONDITIONS
COUNTRYSIDE SCHOOL
BARRINGTON COMMUNITY UNIT SCHOOL DISTRICT 220
VILLAGE OF BARRINGTON HILLS, ILLINOIS

NO.	DATE	REVISION

FILE: 3613-County.yxdw-08/11-2015.rvt	SHEET NUMBER
DRAWN BY: RES	2
DATE: 2-23-16	GHA PROJECT #
	3516.000
CHECKED BY:	SCALE: 1"=50'
DATE:	OF 2 SHEETS



GRAPHIC SCALE



(IN FEET)
1 inch = 20ft.

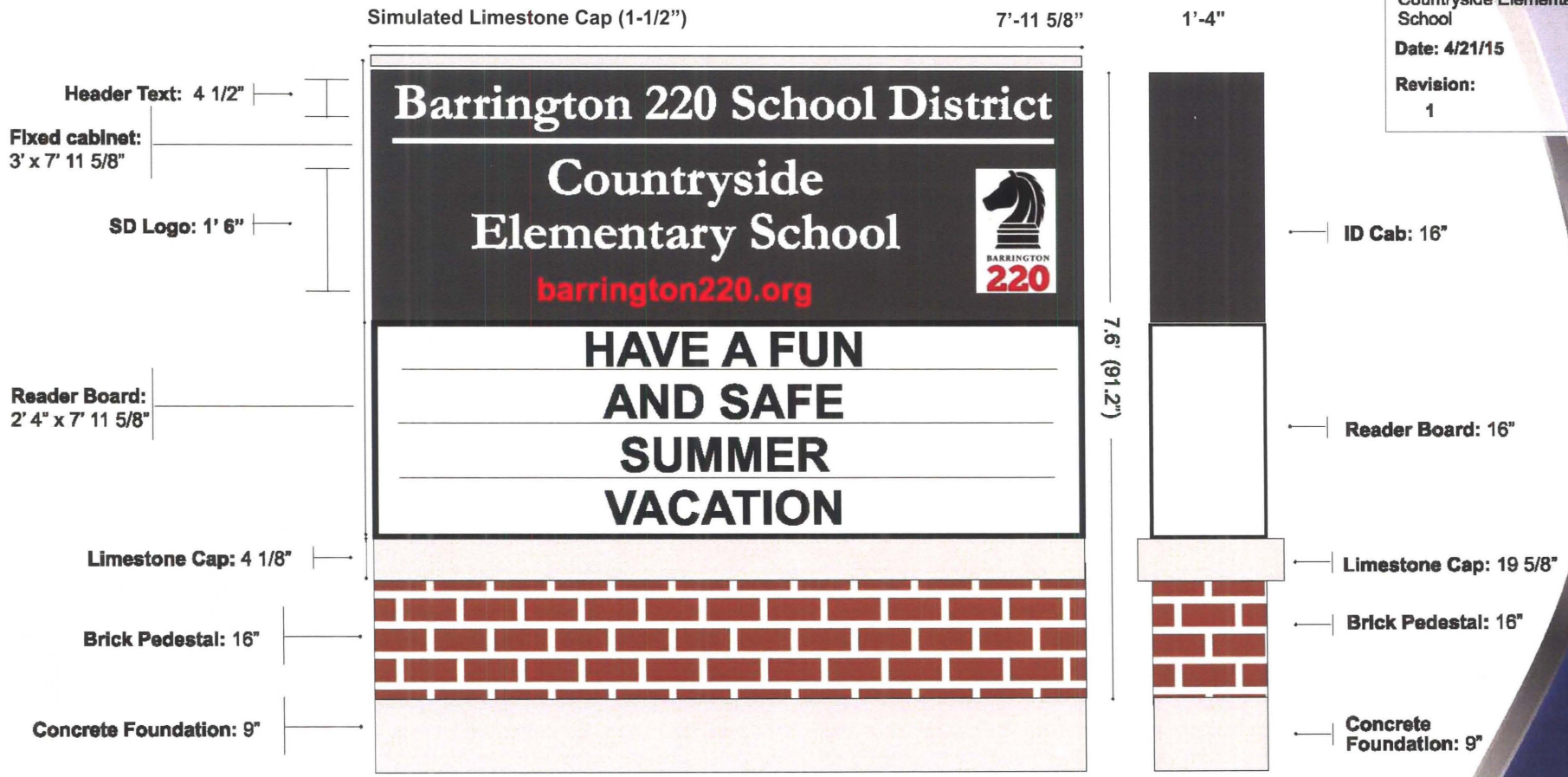
GHA GEWALT HAMILTON
ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL. 60061
TEL 847.478.9700 ■ FAX 847.478.9701

PROPOSED SIGN LOCATION
COUNTRYSIDE ELEMENTARY SCHOOL
COMMUNITY UNIT SCHOOL DISTRICT 220
VILLAGE OF BARRINGTON, ILLINOIS

FILE: Countryside School 2014.dwg	
DRAWN BY: WEG	GHA PROJECT #
DATE 7-6-15	3613.000
CHECKED BY:	SCALE 1"=20'

Specifications

Drawing No: 126727
File Name:
 Countryside Elementary School
Date: 4/21/15
Revision:
 1







SIGN OFF / APPROVAL

Approval: _____

Print Name: _____

Date: _____

Color Detail:

 3M Vinyl White 7725-10	 3M Vinyl 7725-53 Cardinal Red	 Spraylat Custom	 7725-12 Blk 7725-10 Wht 7725-53 Red
School Name	Internet address	Cabinet	Maacot Symbol

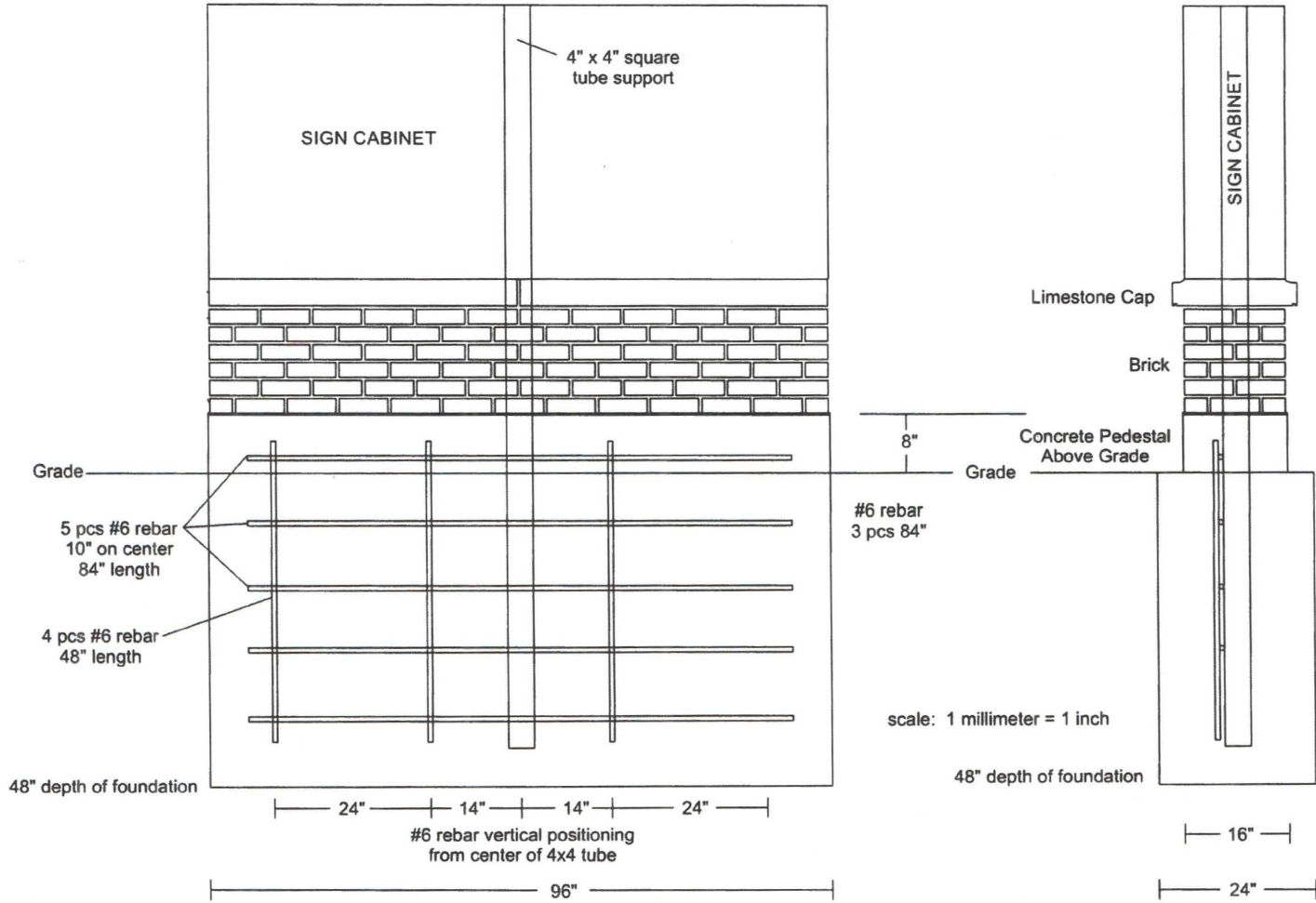
Brick Detail:

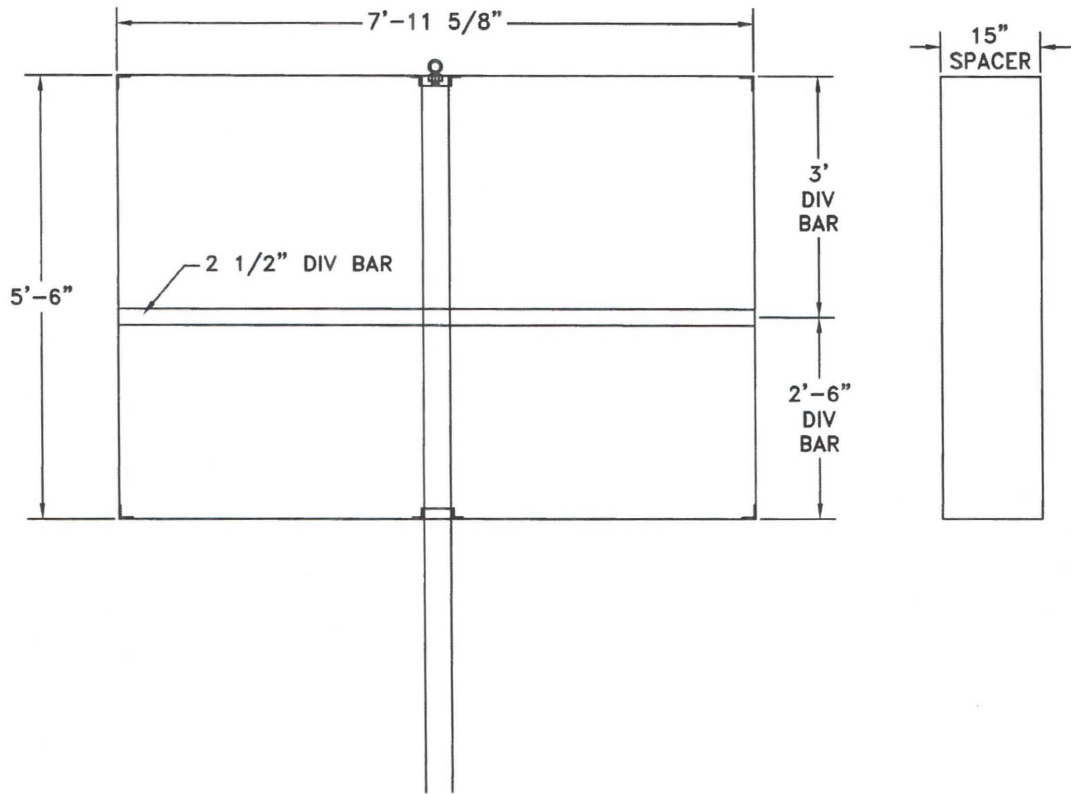
Typeface: Garamond Bold & Arial Bold

This colored sketch is provided as an example of color. There is no exact match between ink and paint. Signs Plus does not guarantee such. ALL MEASUREMENTS ARE NOMINAL. © COPYRIGHT 2013 ALL RIGHTS RESERVED REPRODUCTION EXPRESSLY PROHIBITED

SIGNS PLUS
 NEW IDEAS - NEW TECHNOLOGY, INC.
 4242 McIntosh Lane
 Sarasota, FL 34232
 800-848-4262
 www.signsplusleds.com

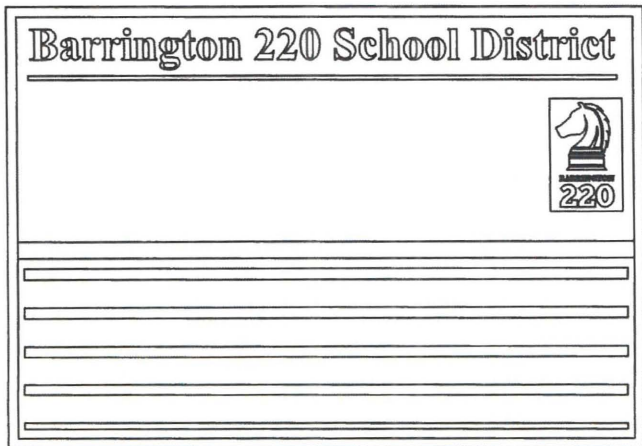
Foundation





1- 1/2" EYEBOLT WITH FILLER BOLT

S	2	66" M2
S	2	95 5/8" M2
AAI	4	14 7/8" - 2 X 3/16
AAI	4	14 7/8" - 1 1/2 X 3/16
AI	4	4 1/8" - 1 1/2" X 3/16"
STRAP	4	14 7/8" - 1 1/2 X 1/4
DIV BAR	2	92 5/8" - 2 1/2"
TUBE	1	137" - 4" X 1/8" SQ.




TOP ALUM FACE: 35 3/4" X 95 3/8" (FINISH SIZE)

FOLD 1" TABS
ON ALL SIDES
(TO REDUCE GAP
IN LIP OPENING)

TRIM BTM POLY FACE: 29 3/4" X 95 3/8"

ITEM NUMBERS	JOB #'S	CAMP PLATES	REVISIONS (DESCRIPTION)	BY	DATE
SSP-CUFRMODDF			A		
SSP-CUFAO			B		
SSP-CUFAV			C		
MISC-PAINTPINT-C			D		
			E		
			F		
			G		



Distributed by Sign Up Company
P.O. BOX 210 700 21st Southwest
Watertown, SD 57201 (605) 882-2244

DRAWING #	DRAWN BY
157011C	JDK 6/13/14

Barrington 220 School District

Arnett C. Lines
Elementary School

barrington220.org



LINES SCHOOL WELCOMES
OUR NEW PRINCIPAL
DR. HILLBERG



Existing Sign to be Removed

PART SIX CERTIFIED MAIL RECEIPTS

Section Includes:

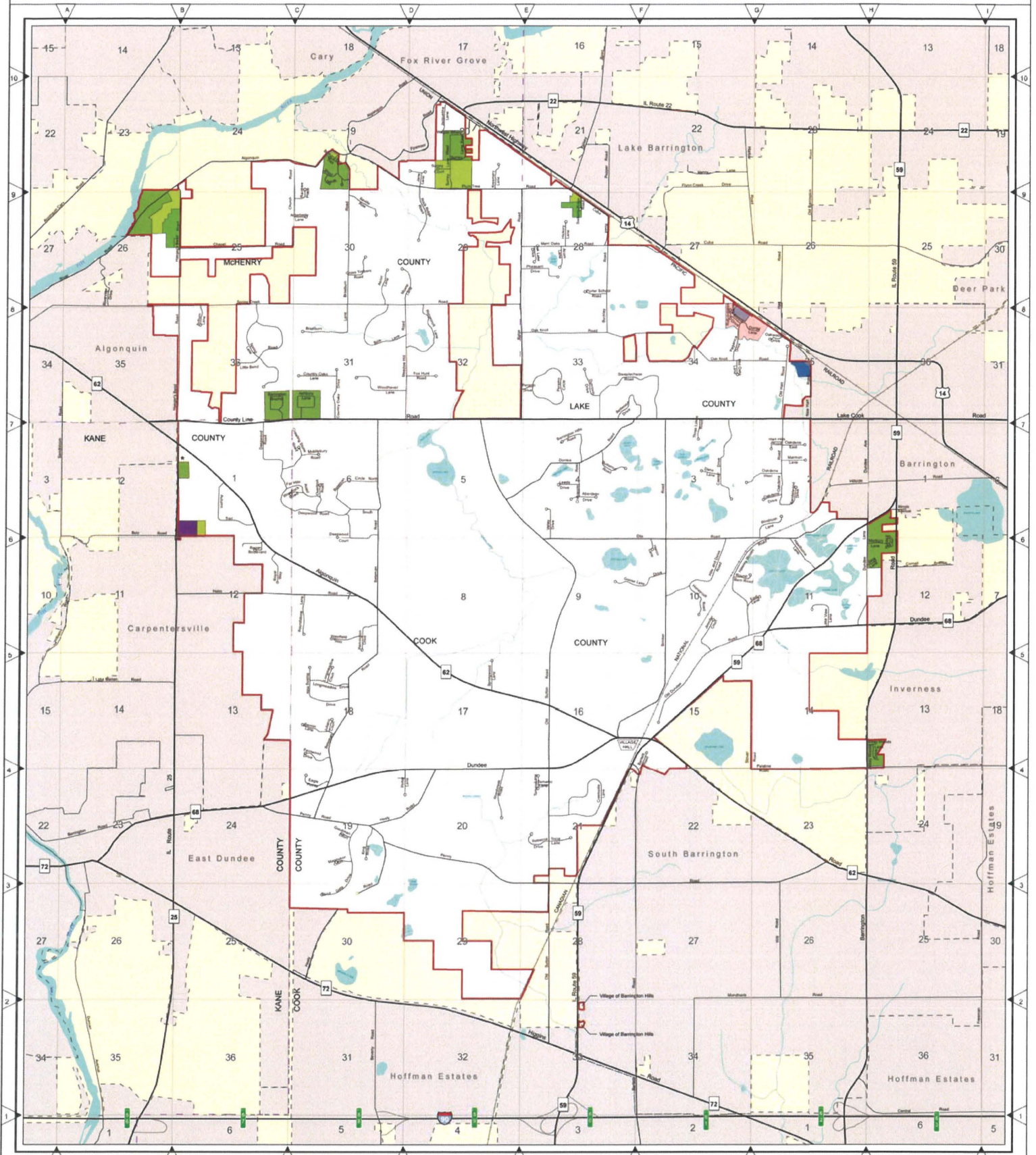
- The District will send certified notification letters to the surrounding property owners not more than 30 days and not less than 15 days prior to the Village of Barrington Hills Board meeting.
(Copies of the Certified Mail Receipts will subsequently be inserted in this section of the submission to the Village of Barrington Hills.)

PART SEVEN ZONING MAP

Section Includes:

- Village of Barrington Hills Zoning Map

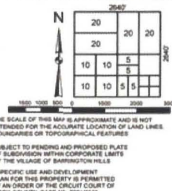
VILLAGE OF BARRINGTON HILLS ZONING MAP - 2016



- SINGLE FAMILY RESIDENCE DISTRICTS**
- R-1 5 ACRES
 - R-2 3 ACRES
 - R-3 2 ACRES
 - R-4 1 ACRES
 - R-4 PLANNED UNIT DEVELOPMENT

- LEGEND**
- BUSINESS DISTRICTS**
- B-1 RESTRICTED BUSINESS DISTRICT
 - B-2 RESTRICTED SERVICE DISTRICT
 - B-3 GENERAL BUSINESS DISTRICT
 - B-4 GENERAL SERVICE DISTRICT
 - BP BUSINESS PARK DISTRICT
 - LID LIGHT INDUSTRIAL DISTRICT

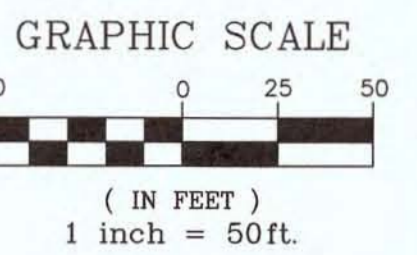
- SYMBOLS**
- COUNTY LINE
 - SECTION LINE
 - CORPORATE LIMITS - BARRINGTON HILLS
 - CORPORATE LIMITS - OTHER
 - 99 STATE / INTERSTATE / MILE MARKER
 - 14 COUNTY / LOCAL / PRIVATE ROUTE
 - 66 ROUTE W/ITERMINUS
 - LAKE/STREAM
 - 99 RAILROAD



VILLAGE OF BARRINGTON HILLS
112 ALGONQUIN ROAD
BARRINGTON HILLS, ILLINOIS 60010-5199
(847) 261-2000
<http://www.barringtonhills-il.gov>
Revised February 2nd, 2016
Map Code: ZM1614

DRAFT

THE SCALE OF THIS MAP IS APPROXIMATE AND IS NOT INTENDED FOR THE ACCURATE LOCATION OF A LOT LINES, BOUNDARIES OR DIMENSIONS.
SUBJECT TO PENDING AND PROPOSED PLATS OF SUBDIVISION WITHIN CORPORATE LIMITS OF THE VILLAGE OF BARRINGTON HILLS.
* SPECIFIC USE AND DEVELOPMENT PLANS FOR THIS PROPERTY IS PERMITTED BY AN ORDER OF THE CIRCUIT COURT OF COOK COUNTY CASE NO. 1709826



PIN: 13-34-300-008
ADDRESS: 1 BELLWOOD DR
BARRINGTON, IL 60010
MAIL ADDRESS: 1 BELLWOOD DR
BARRINGTON, IL 60010
OWNER: NICHOLAS ISAACSON

PIN: 13-34-300-009
ADDRESS: 9 STEEPLCHASE RD
BARRINGTON HILLS, IL 60010
MAIL ADDRESS: 567 AUDUBON BLVD #301
NAPLES, FL 34110
OWNER: STELLA F WENNER TRUST

PIN: 13-34-302-005
ADDRESS: 10 STEEPLCHASE ROAD
BARRINGTON, IL 60010
MAIL ADDRESS: 10 STEEPLCHASE ROAD
BARRINGTON, IL 60010
OWNER: STEPHEN V & KIMBERLY A D'AMORE

PIN: 13-34-301-009
ADDRESS: 11 STEEPLCHASE RD
BARRINGTON HILLS, IL 60011
MAIL ADDRESS: 11 STEEPLCHASE RD
BARRINGTON HILLS, IL 60011
OWNER: MICHAEL J MILLER

PIN: 13-34-300-010
ADDRESS: 27676 W COUNTY LINE RD
BARRINGTON HILLS, IL 60010
MAIL ADDRESS: 11 W COUNTY LINE RD
BARRINGTON, IL 60010
OWNER: HARLAN MILLER

PIN: 01-03-100-012
ADDRESS: 215 W. COUNTY LINE RD
BARRINGTON, IL 60010
MAIL ADDRESS: 215 W. COUNTY LINE RD
BARRINGTON, IL 60010
OWNER: RICHARD PANICHI

PIN: 01-03-101-022
ADDRESS: 409 W COUNTY LINE RD
BARRINGTON HILLS, IL 60010
MAIL ADDRESS: 320 OAK KNOLL ROAD
BARRINGTON, IL 60010
OWNER: PAGNOTTA LLC

PIN: 01-03-101-037
ADDRESS: 3 BRINKER RD
BARRINGTON, IL 60010
MAIL ADDRESS: 320 OAK KNOLL ROAD
BARRINGTON, IL 60010
OWNER: PAGNOTTA LLC

PIN: 01-03-101-036
ADDRESS: 7 BRINKER RD
BARRINGTON, IL 60010
MAIL ADDRESS: 7 BRINKER RD
BARRINGTON, IL 60010
OWNER: THOMAS E ALLAWAY

PIN: 01-03-100-039
ADDRESS: 231 W. COUNTY LINE RD
BARRINGTON HILLS, IL 60010
MAIL ADDRESS: 231 W. COUNTY LINE RD
BARRINGTON HILLS, IL 60010
OWNER: NAM S HUH

PIN: 01-03-100-007
ADDRESS: 229 W. COUNTY LINE RD
BARRINGTON, IL 60010
MAIL ADDRESS: 229 W. COUNTY LINE RD
BARRINGTON, IL 60010
OWNER: JOHN & MARIA KUECHMANN

PIN: 01-03-100-009
ADDRESS: 6 BRINKER RD
BARRINGTON HILLS, IL 60010
MAIL ADDRESS: 6 BRINKER RD
BARRINGTON HILLS, IL 60010
OWNER: (EXEMPT) PRESBYTERIAN CHURCH OF BARRINGTON

PIN: 01-03-101-035
ADDRESS: 9 BRINKER RD
BARRINGTON, IL 60010
MAIL ADDRESS: 9 BRINKER RD
BARRINGTON, IL 60010
OWNER: R. J. CASHMORÉ



GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL 60061
TEL 847.478.9700 ■ FAX 847.478.9701

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PROPOSED CONDITIONS
COUNTRYSIDE SCHOOL
BARRINGTON COMMUNITY UNIT SCHOOL DISTRICT 220
VILLAGE OF BARRINGTON HILLS, ILLINOIS

NO.	BY	DATE	REVISION

FILE: 3613-Countryside-Bball-2015.dwg	SHEET NUMBER
DRAWN BY: WEG	GHA PROJECT #
DATE: 2-23-16	3616.000
CHECKED BY:	SCALE
DATE:	1"=50'
	OF 2 SHEETS

2

PLAT OF SURVEY
 OF

- LEGEND**
- AR = AIR CONDITIONING UNIT
 - CLP = CHAIN-LINK FENCE
 - CMP = CORRUGATED METAL PIPE
 - CO = CLEAN OUT
 - CS = DOWN SPURT
 - DU = DESTINATION UNKNOWN
 - E = ELECTRIC
 - HT = FINISHED FLOOR
 - HT = HAND HOLE
 - LHT = LIGHT
 - LSP = LANDSCAPE PERIMETER
 - MTL = METAL
 - MTR = METER
 - N = NORTH
 - OHV = OVERHEAD WIRES
 - OP = ORANGE PAINT
 - PEST = TELEPHONE PEDESTAL
 - POST = POST
 - RCP = REINFORCED CONCRETE PIPE
 - S = SOUTH
 - ST = STORM
 - T/F = TOP OF FOUNDATION
 - TRNS = TRANSFORMER
 - UW = UNDERGROUND WIRE
 - VCP = VITRIFIED CLAY PIPE
 - W = WEST
 - YP = YELLOW PAINT
- = MANHOLE
 - ⊙ = ROUND OPEN GRATE MANHOLE
 - ⊕ = GAS B-BOX (BUFFALO BOX)
 - ⊖ = FLARED END SECTION
 - = UTILITY POLE
 - = SIGN WITH SIGN NOTE NUMBER
 - = LIGHT ON T ARM ON UTILITY POLE
 - = 24" CONCRETE CURBING
 - = 24" CONCRETE CURBING
 - = DEPRESSED CURBING
 - = CONCRETE
 - = BRICK
 - = BROOKLYN VARIETY WITH TRUNK DIAMETER IN INCHES
 - = 2-7" INDICATES MULTIPLE TRUNKS
 - = EVERGREEN VARIETY WITH UMBRELLA WIDTH IN FEET
 - = TELEPHONE PIN FLAG (AMERITECH)

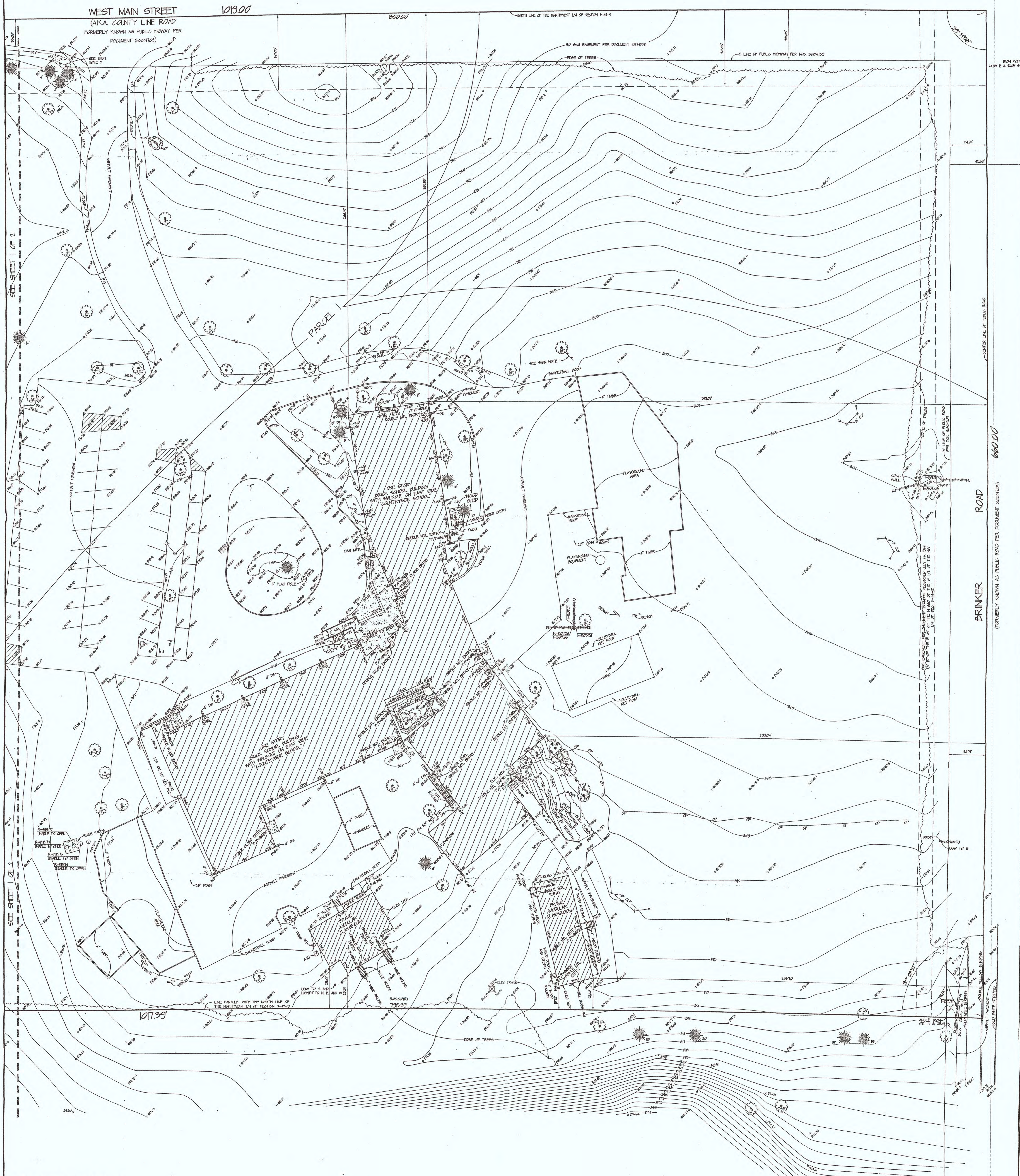
- SIGN NOTES:**
- "WELCOME TO THE COUNTRYSIDE SCHOOL PLAYGROUND", "TODAY'S FRIENDS-BARRINGTON HILLS PARK DISTRICT, THE REILLYS", "COTY TOPPING", "THE WANDERS FAMILY"
 - "COUNTRYSIDE SCHOOL"
 - "NO PARKING, FIRE LANE"
 - HANDICAPPED PARKING SIGN
 - "STUDENT DROP-OFF AND PICK-UP AREA"
 - ARROW PHOTOGRAPH TO LEFT, "PUEBS", ARROW PHOTOGRAPH TO RIGHT, "CAR"
 - "SARAH PARKER CIRCLE"
 - TWO SIGNS ON ONE POST, "VISITORS, PLEASE USE MAIN ENTRANCE AND REGISTER AT OFFICE", "SCHOOL GROUNDS CLOSED AFTER DARK, NO TRESPASSING"
 - TWO SIGNS ON ONE POST, STOP SIGN "STOP AT LINE"
- PENCH MARK:**
 VILLAGE OF ARLINGTON HEIGHTS MONUMENT IS NICHOLS A 9" DIAMETER BRONZE DISK PLACED IN CONCRETE STAMPED VILLAGE OF ARLINGTON HEIGHTS PENCHMARK MONUMENT IS 1/4" OUT OF SOUTHWEST CORNER OF WALK ON NORTHWEST CORNER OF NICHOLS ROAD AND KENNICOTT AVENUE. ELEVATION=729.81 NAD 23 DATUM

A JULIE LOCATE FOR THIS SITE WAS REQUESTED AND ASSIGNED DIO IN PARCEL 1. UNDERGROUND UTILITIES WITH THE EXCEPTION OF MUNICIPAL STORM SEWER, SANITARY SEWER AND WATERMAIN HAVE BEEN MARKED BY JULIE REPRESENTATIVES. SAID MARKINGS WERE FIELD LOCATED AND THIS PLAT/MP INTENDS TO SHOW ONLY THOSE UNDERGROUND UTILITIES THAT HAVE BEEN MARKED BY JULIE. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST THAT DO NOT FALL UNDER THE JURISDICTION OF JULIE OR UTILITIES MAY BE PRESENT THAT WERE NOT MARKED PRIOR TO DATE OF FIELD SURVEY. CALL JULIE 1-800-892-2123 PRIOR TO DESIGN, OR FOR ADDITIONAL INFORMATION. MEMBER COMPANIES PER JULIE: AMERITECH, NIGOR GAS, TCI, COLED.

NOTE:
 ALL PARKING STRIPES IS SOLID YELLOW UNLESS OTHERWISE NOTED.

PARCEL 1:
 THAT PART OF THE WEST 1/2 OF THE NORTHWEST 1/4 OF SECTION 3, TOWNSHIP 42 NORTH, RANGE 9, EAST OF THE THIRD PRINCIPAL MERIDIAN DESCRIBED AS FOLLOWS: BEGINNING ON THE NORTH LINE OF SAID NORTHWEST 1/4, 505.3 FEET EAST OF THE NORTHWEST CORNER THEREOF; THENCE EAST ON THE NORTH LINE OF SAID NORTHWEST 1/4, 800 FEET TO THE CENTER LINE OF PUBLIC ROAD EXTENDING SOUTH FROM COUNTY LINE ROAD; THENCE SOUTH ON CENTER LINE OF SAID NORTH AND SOUTH PUBLIC ROAD, 660 FEET; THENCE WEST PARALLEL WITH THE NORTH LINE OF SAID NORTHWEST 1/4, 800 FEET TO A POINT 506.4 FEET EAST OF THE WEST LINE OF SAID NORTHWEST 1/4 (AS MEASURED ON A LINE PARALLEL WITH THE NORTH LINE THEREOF); THENCE NORTH ON A STRAIGHT LINE, 660 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

PARCEL 2:
 THAT PART OF THE WEST 1/2 OF THE NORTHWEST 1/4 OF SECTION 3, TOWNSHIP 42 NORTH, RANGE 9, EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF THE NORTHWEST 1/4 OF SAID SECTION AND RUNNING THENCE NORTH 89 DEGREES, 51 MINUTES, 30 SECONDS EAST ALONG THE NORTH LINE THEREOF 505.3 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 00 DEGREES, 08 MINUTES, 30 SECONDS EAST ON A STRAIGHT LINE, 660 FEET TO A POINT WHICH IS 506.40 FEET EAST OF THE WEST LINE OF SAID SECTION; THENCE WEST AND PARALLEL WITH THE NORTH LINE OF SAID SECTION 219 FEET; THENCE NORTH 0 DEGREES, 8 MINUTES, 30 SECONDS WEST, 660 FEET TO THE NORTH LINE OF SAID 1/4 SECTION; THENCE EAST ALONG THE NORTH LINE OF SAID 1/4 SECTION TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.



Hey and Associates, Inc.

Engineering, Ecology and Landscape Architecture

MILWAUKEE, WISCONSIN

26575 W. COMMERCE DRIVE, SUITE 601

VOLO, ILLINOIS 60073

PHONE (847) 740-0888

FAX (847) 740-2888

CHICAGO, ILLINOIS

April 14, 2016

Mr. Robert Kosin
Director of Administration
Village of Barrington Hills
112 Algonquin Road
Barrington Hills, IL 60010

Project No.: 16-0121

Re: Review Services – Countryside School
Barrington Hills, Illinois

Dear Mr. Kosin:

Hey and Associates, Inc. (Hey) has reviewed the following

- Stormwater and Traffic Impact Letter prepared by Gewalt Hamilton Associates, Inc. dated March 29, 2016
- Existing Conditions Plans prepared by Gewalt Hamilton Associates, Inc. dated February 23, 2016
- Proposed Sign Location Plan prepared by Gewalt Hamilton Associates, Inc. dated July 16, 2015
- Petition to Amend Special Unit Permit for Countryside Elementary School prepared by Barrington Community Unit School District 220 dated March 18, 2016

Additional information was requested and received from Gewalt Hamilton Associates, Inc. and is referenced below.

Sign Location Plan

We have reviewed the sign location plan with respect to the Illinois Department of Transportation (IDOT) Bureau of Design and Environment Manual, revised March 2016. While we found discrepancies with the distance used for the driver's eye, as well as some discrepancies between drawn and labeled distances on the plan, the location of the sign is not within the clear sight triangle recommended for this driveway design. Therefore, the sign does not pose an impediment to visibility.

Stormwater Detention Approach

We have reviewed the stormwater approach outlined in Gewalt Hamilton Associates, Inc's., as well as the associated plan and the original stormwater plan and report from 2001. The review of

the stormwater management is complicated by the fact that the original improvements were constructed in approximately 2001 under a different ordinance than is now in effect. Our focus is only on stormwater management for the proposed new basketball and not on any other plan or submittal elements. We offer the following comments:

- The project is located in Cook County.
- The site was redeveloped (same land use, but new building and parking) in approximately 2001 and was reviewed and permitted under the Cook County stormwater regulations in effect at the time.
- Our understanding is that County Line Road was improved at a later date, and as part of a separate project, so was not subject to the 2001 stormwater calculations and is thus not considered here.
- The Village adopted the Lake County Watershed Development Ordinance (WDO) for use throughout the Village in 2012.
- The proposal is to add a 4,700 square-foot (sf) basketball court that is tributary to the existing detention basin.
- The permitted 2001 plan accounts for 66,000 sf for the new building and 88,733 sf for parking, walks, etc. In addition, three (3) building additions totaling 11,349 sf were included in the plan, making the total impervious area subject to the 2001 detention calculations 166,082 sf (66,000+88,733+11,349) or 3.81 acres. The total tributary area to the detention is 7.97 acres (47.8% impervious) according to the calculations.
- Of the 166,082 sf of permitted impervious area, the three (3) building additions (11,349 sf) and approximately 9,400 sf of parking totaling 20,749 sf were not constructed. A separate small asphalt playground totaling 1,200 sf was built within the footprint of one of the additions. This yields a net 19,549 sf (11,349+9,400-1,200) of impervious area that was permitted but not constructed.
- Subtracting the proposed 4,700 sf basketball court from the impervious balance of 19,549 sf leaves a balance of 14,849 sf of impervious area that could still be constructed under the original permit.
- There is excess volume of approximately 0.32 acre-feet in the detention pond when comparing the required volume that was permitted in 2001 and the volume that is available based on the Gewalt Hamilton Associates, Inc. *As-Constructed Grading* plan dated December 12, 2002. We note that the high water level of the pond is 808.48 based on the as-constructed grading versus the permitted value of 808.0

It is our opinion, therefore, that no further action is required on the applicant's part relative to stormwater detention other than to maintain an ongoing accounting of total impervious area. If additional impervious area exceeding the remaining balance of 14,489 sf is planned, then the amount of new impervious area that exceeds that balance would be subject to the detention and other relevant portion of the WDO. We note that the value for the unconstructed parking area is approximate only and should be verified if additional impervious area beyond the basketball court is proposed.

Mr. Robert Kosin
16-0121
April 14, 2016
Page 3

We have sought input from the Lake County Stormwater Management Commission on this approach and they have concurred.

Please feel free to contact us should you have any other questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'T. Polzin', with a long horizontal flourish extending to the right.

Thomas L. Polzin, P.E., CFM, CPESC
President