Michael G. Schaefer Certified Professional Soil Scientist 138 Coomer Hill Road Dayville, CT 06241

Telephone: 860 779 1219 May 29, 2006

Paul Terwilliger, L.S. PC Survey Associates, LLC 154 S. Main Street Danielson, CT 06239

RE: N/F (remaining land of) Kingswood Estates, Church Street, Brooklyn

Dear Mr. Terwilliger:

I delineated the wetlands on the above referenced property on May 27, 2006. The wetlands on the site include four isolated pockets and wetlands associated with an intermittent stream course. Flags 1 through 21 surround a wetland near the southwest corner of the property along the road (Church Street) frontage. This wooded wetland includes an area that is subject to seasonal ponding. The periphery of this wetland is characterized by wooded swamp vegetation. Flags 1A through 27A surround a wooded, long, narrow area of poorly drained Ridgebury and Leicester extremely stony fine sandy loams. No evidence of persistent surface water or concentrated flow was present within this wetland, which from a relative standpoint is of minimal functional value.

Flags 1B through 18B and 1C through 12C surround separate shallow ponds in the southeast corner of the property and northeast section of the property, respectively. These pool areas appear to be capable of supporting a variety of amphibians and reptiles, and an effort should be made to maintain a wooded corridor between these two areas and a similar area located off the southeast corner of the property (to the south).

Lastly, an intermittent stream within a narrow band of wooded wetlands flows from west to east in the north-central potion of the property. Flags 1D through 19D and 1E through 17E flank the south and north sides of the wetlands, respectively. This stream originates north of the project site and enters onto the property near Church Street. The wetlands narrow considerably proceeding eastward because the soils transition from glacial till to outwash in this area and consequently become more permeable and freely draining.

Please feel free to contact me if you have any questions.

Michael G. Schaefer, Sr.

Sincerek

ABUTTERS WITHIN 200' OF SUBDIVISION - BELL, CHURCH STREET

MAP 35, LOT 3

TURNER JOHN F III & SAVOLIS SARAH K

92 CHURCH ST

BROOKLYN

CT 6234

MAP 35, LOT 4-15

BRAIS ERIC V & SIMONNE D

30 MALBONE LN

BROOKLYN

CT 6234

MAP 35, LOT 7-1 BRENNAN MICHELE 132 CHURCH ST

BROOKLYN

CT 6234

MAP 35, LOT 4-16

BESSETTE STEVEN W & ADRIENNE L

28 MALBONE LN

BROOKLYN

CT 6234

MAP 35, LOT 4-14

GALLAGHER MICHELLE L & BILLY JAY

26 MALBONE LN

BROOKLYN

CT 6234

MAP 35, LOT 7-8

GOYETTE PAMELA J & SCHOBER ANDREA E

136 CHURCH ST

BROOKLYN

CT 6234

MAP 35, LOT 7

F C R REALTY LLC

110 DAY ST

BROOKLYN

T 6234

MAP 35, LOT 4-9

WILLIAMS DONALD E JR & LAURA L

41 MALBONE LN

BROOKLYN

CT 6234

MAP 35, LOT 4-8 GREENE KENNETH N 38 MALBONE LN

BROOKLYN

CT 06234-2535

MAP 35, LOT 2

ENNIS JOHN F & EGGERS FREDERICK S

289 PROVIDENCE RD

BROOKLYN

CT 06234-1818

MAP 35, LOT 4-3

BELL DAVID P & NANCY M

P.O. BOX 358

BROOKLYN

CT 06234-0844

MAP 41, LOT 6

F C R REALTY LLC

110 DAY ST

BROOKLYN

CT 6234

MAP 35, LOT 4-4

BURKART THOMAS & SUSAN

PO BOX 787

BROOKLYN

CT 06234-0356

MAP 35, LOT 4-5

MURRAY DANIEL & RAINVILLE JESSIE

124 CHURCH ST

BROOKLYN

CT 6234

SUBJECT PROPERTY MAP 35, LOT 4

BELL DAVID P & NANCY M

PO BOX 358

BROOKLYN

CT 6234

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Michael G. Schaefer, Sr., CPS

Sincerely

INLAND WETLANDS & WATERCOURSES COMMISSION TOWN OF BROOKLYN, CONECTICUT

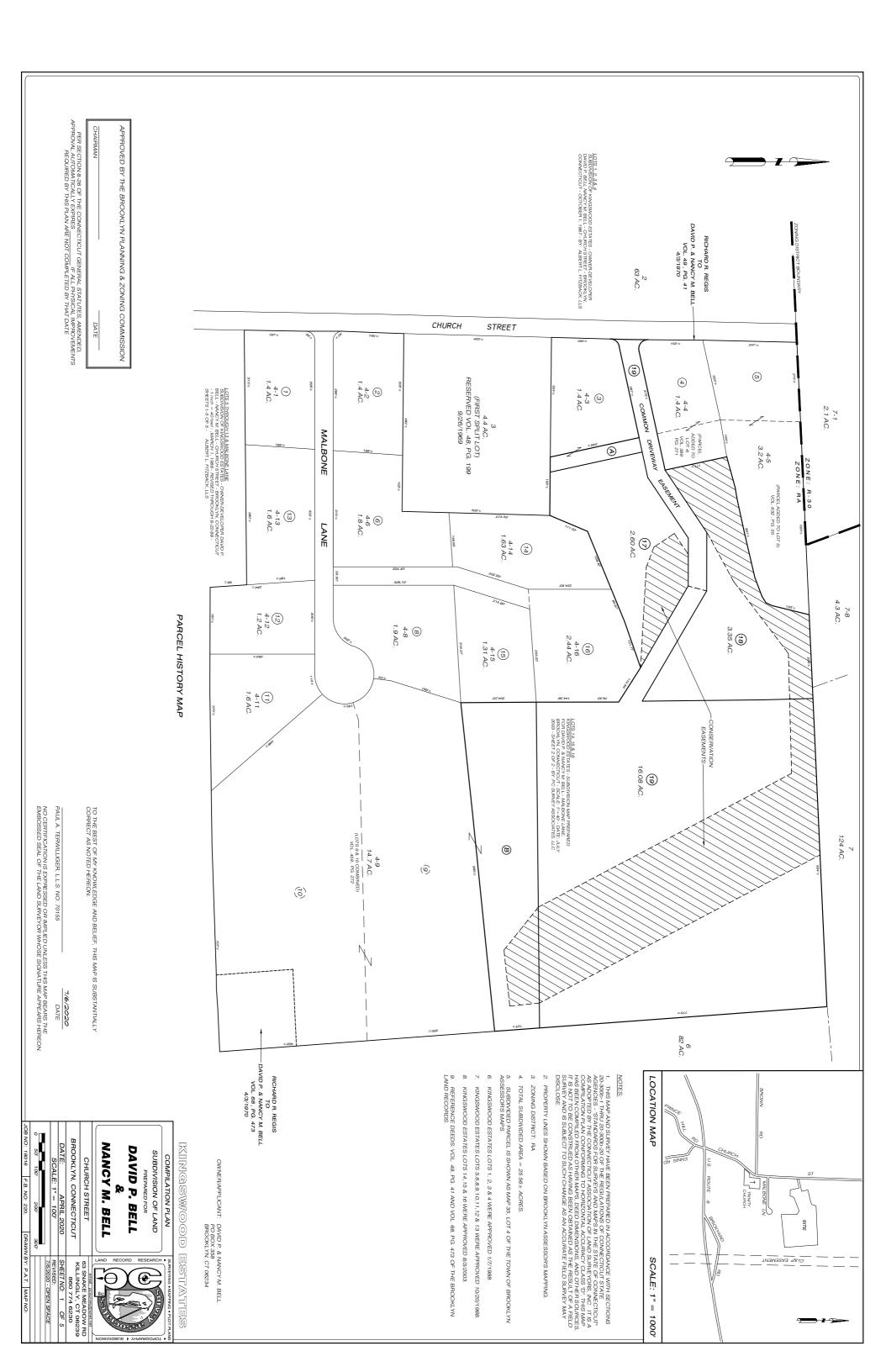
7-1-	
Date	Application #
	, ipplication ii

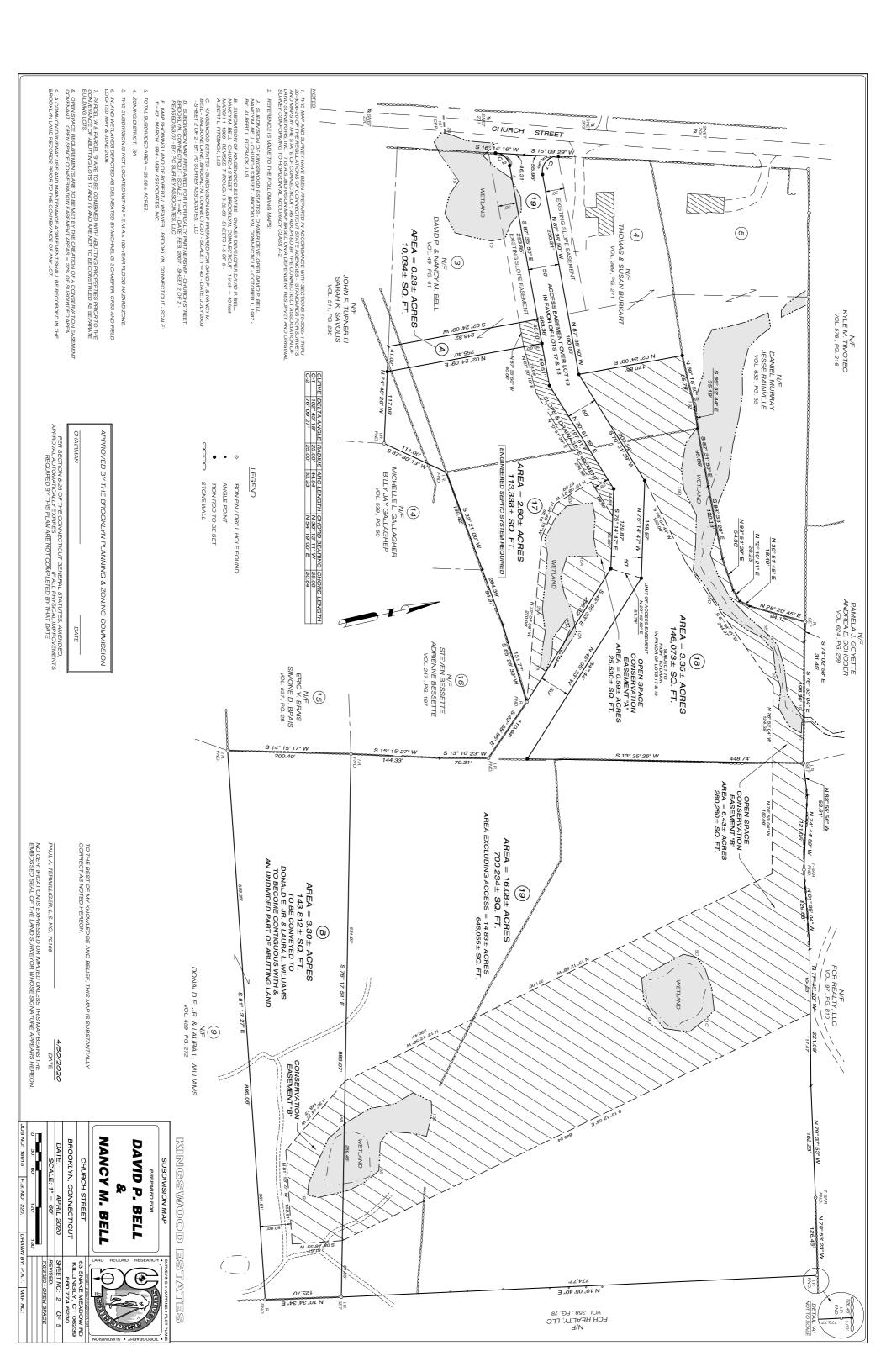
APPLICATION -- INLAND WETLANDS & WATERCOURSES

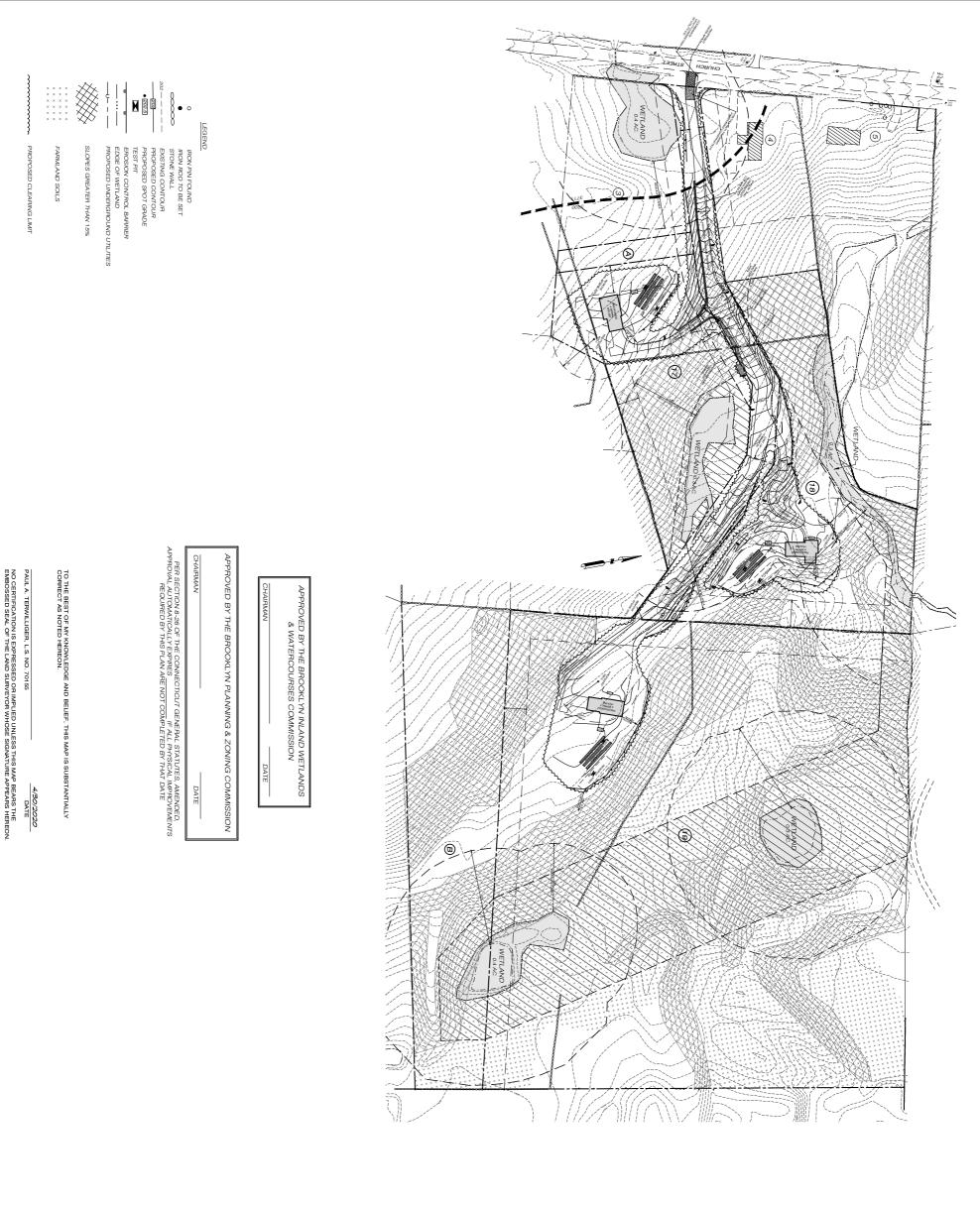
APPLICANT David & Nancy Bell MAILING ADDRESS PO Box 358, Brooklyn, CT 06234
APPLICANT'S INTEREST IN PROPERTY OWNER PHONE 860 774 3838 EMAIL
PROPERTY OWNER IF DIFFERENT SAME PHONE PHO
Engineer/Surveyor (if any)pc survey associates, Ilc Attorney (if any)
PROPERTY LOCATION/ADDRESS Church Street MAP # 35 LOT # _ 4 ZONE RA TOTAL ACRES 25.56 ACRES OF WETLANDS ON PROPERTY 2
PURPOSE AND DESCRIPTION OF THE ACTIVITY 3 Lot Subdivision
WETLANDS EXCAVATION AND FILL: FILL PROPOSED
MITIGATION MEASURES (IF REQUIRED): WETLANDS/WATERCOURSES CREATED: CY SQFT ACRES
IS PARCEL LOCATED WITHIN 500FT OF AN ADJOINING TOWN? <u>no</u> IF YES, WHICH TOWN(S)
THE OWNER AND APPLICANT HEREBY GRANT THE BROOKLYN IWWC, THE BOARD OF SELECTMAN AND THEIR AUTHORIZED AGENTS PERMISSION TO ENTER THE SUBJECT PROPERTY FOR THE PURPOSE OF INSPECTION AND ENFORCEMENT OF THE IWWC REGULATIONS OF THE TOWN OF BROOKLYN. IF THE COMMISSION DETERMINES THAT OUTSIDE REVIEW IS REQUIRED, APPLICANT WILL PAY CONSULTING FEE.
NOTE: DETERMINATION THAT THE INFORMATION PROVIDED IS INACCURATE MAY INVALIDATE THE IWWC DECISION AND RESULT IN ENFORCEMENT ACTION. APPLICANT:
OWNER: X Duil DATE 7-6-20

REQUIREMENTS APPLICATION FEE \$_____ STATE FEE (\$60.00) COMPLETION OF CT DEEP REPORTING FORM ORIGINAL PLUS COPIES OF ALL MATERIALS REQUIRED - NUMBER TO BE DETERMINED BY STAFF PRE-APPLICATION MEETING WITH THE WETLANDS AGENT IS RECOMMENDED TO EXAMINE THE SCOPE OF THE ACTIVITY ____ SITE PLAN SHOWING LOCATION OF THE WETLANDS WITH EXISTING AND PROPOSED CONDITIONS. APPLICANT MAY BE REQUIRED TO HAVE A CERTIFIED SOIL SCIENTIST IDENTIFY THE WETLANDS. COMPLIANCE WITH THE CONNECTICUT EROSION & SEDIMENTATION CONTROL MANUAL IF THE PROPOSED ACTIVITY IS DEEMED TO BE A "SIGNIFICANT IMPACT ACTIVITY" A PUBLIC HEARING IS REQUIRED ALONG WITH THE FOLLOWING INFORMATION: O NAMES AND ADDRESSES OF ABUTTING PROPERTY OWNERS ADDITIONAL INFORMATION AS CONTAINED IN IWWC REGULATIONS ARTICLE 7.6 ADDITIONAL INFORMATION/ACTION NEEDED: OTHER APPLICATIONS MAY BE REQUIRED. CONTACT THESE AGENCIES FOR FURTHER INFORMATION: APPLICATION TO STATE OF CONNECTICUT DEEP INLAND WATER RESOURCES DIVISION 79 ELM ST. HARTFORD, Ct. 06106 1-860-424-3019 DEPARTMENT OF THE ARMY CORPS OF ENGINEERS 696 VIRGINIA ROAD CONCORD, MA. 01742 1-860-343-4789 STAFF USE ONLY: __ DECLARATORY RULING: AS OF RIGHT & NON-REGULATED USES (SEE IWWC REGULATIONS SECTION 4) PERMIT REQUIRED: _ AUTHORIZED BY STAFF/CHAIR (NO ACTIVITY IN WETLANDS/WATERCOURSE AND MINIMAL IMPACT) CHAIR, BROOKLYN IWWC WETLANDS OFFICER **AUTHORIZED BY IWWC** _____ SIGNIFICANT ACTIVITY/PUBLIC HEARING NO PERMIT REQUIRED _____OUTSIDE OF UPLAND REVIEW AREA ____ NO IMPACT CHAIR, BROOKLYN IWWC WETLANDS OFFICER

TIMBER HARVEST







1. THIS MAP AND SURVEY HAVE BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20:000-1 THEN J20:000-20 OF THE RESULUTIONS OF CONNECTICUT STATE AGENCIES - STANDARDS FOR SAMES AND MAPS IN THE STATE OF CONNECTICUT, AS A DOPERED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. IT IS A ADMINISTRATION OF THE STATE OF CONNECTICUT, AS ADMINISTRATION OF LAND SURVEYORS, INC. IT IS A ADMINISTRATION OF THE SAME SURVEYORS AND CONNECTICUT OF SURVEYORS AND CONFORMATION, TOPOGRAPHIC FOR THE SURVEYORS AND CONFORMATION, TOPOGRAPHIC FOR THE SURVEY A SELECT ON THE SURVEYORS AND CONFORMATION OF THE S

2. ZONING DISTRICT: RA

PROPOSED IMPROVEMENTS ARE CONCEPTUAL LOCATIONS TO SHOW LOT SUITABILITY ONLY.

5. THE INLAND WETLANDS & WATERCOURSES WERE FIELD DELINEATED. BY MICHAEL O. SCHAEFER. SOIL SCIENTIST AND FIELD LOCATED BY FC SURVEY ASSOCIATES, LLC. IN MAY AND UNIE 2006.

MAXIMUM DRIVEWAY GRADE PERMITTED IS 12%. GRADES OF 10% OR GREATER ARE TO BE PAVED. PROPOSED DRIVEWAY GRADES DEPICTED ARE AT LESS THAN 10%

SOILS WITHIN DEVELOPOMENT AREAS
CHARTLION-CHATFIELD COMPLEX, 0-15% SLOPES, VERY ROCKY
FINE SANDY LOAM TO GRAVELLY FINE SANDY LOAM
WELL DRAINED, WATER TABLE GREATER THAN 80°, BEDROCK 20° - 80° SUTTON, 0-8% SLOPES, VERY STONY FINE SANDY LOAM TO GRAVELLY SANDY LOAM MODERATELY WELL DRAINED, WATER TABLE 12-27"

FARMLAND SOILS ON SUBDIVIDED PROPERTY

UNINGRET FINE SANDY LOAM, 0-3% SLOPES
CANTON & CHARLTON 15-116 SANDY LOAMS, 3-8% SLOPES
HINKLEY LOAMY SAND, 3-116 SANDPES
WALPOLE LOAMY SAND, 0-3% SLOPES

AREA OF FARMLAND SOILS: 10± ACRES

RIDGEBURY & LEICESTER WALPOLE WETLAND SOILS ON SUBDIVIDED PROPERTY

SOILS INFORMATION AS TAKEN FROM USDA NRCS WEBSITE

KINGSWOOD ESTATES

COMPILATION MAP

NANCY M. BELL DAVID P. BELL LOT DEVELOPMENT AREAS
SUBDIVISION OF LAND PREPARED FOR



BROOKLYN, CONNECTICUT DATE: APRIL 2020 SCALE: 1" = 80' GRINE DEMONSTRATION

GRINALE MEADOW RD

KILLINGLY, CT 06239

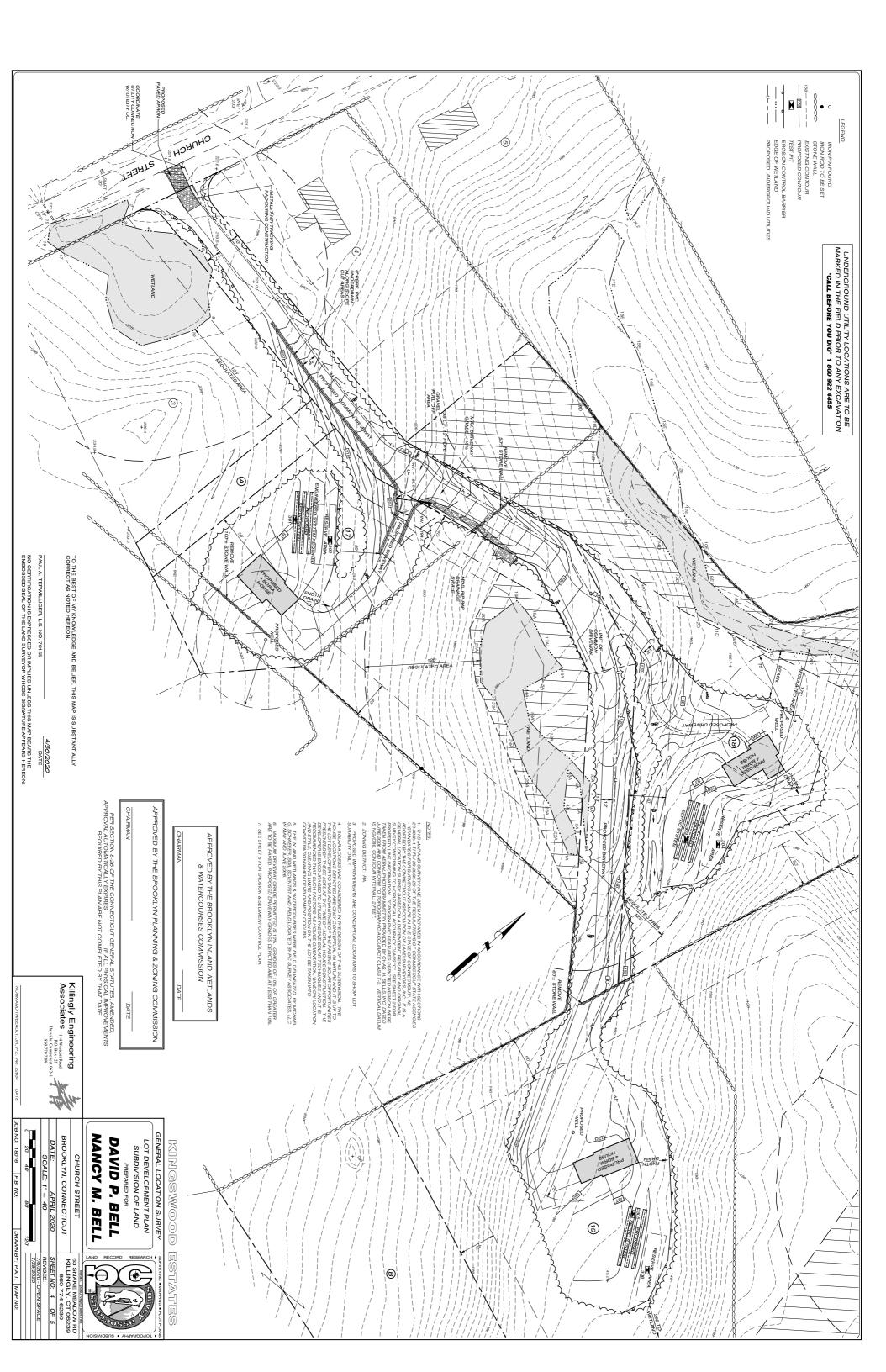
860 774 6230

SHEETNO: 3 OF 5

REMISED: 7/6/2020 - OPEN SPACE 7/29/2020

P.A.T. MAP NO:

CHURCH STREET



ALL EROSION AND SEDIMENT CONTROL MEASURES AND PROCEDURES SHALL CONFORM TO CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, MAY 2002.

DEVELOPMENT

CTINTIES TO INCLUDE CONSTRUCTION. IN NEW BUILDING LOTS RIVEWAYS, HOUSES, SEPTIC SYSTEMS, WELLS, AND SITE GRADING. THE RIMARY CONCERN OF THIS EROSION & SEDMENT CONTROL PLAN IS TO REVENT EXCESSIVE EROSION, AND KEEP ERODED. SEDMENT FROM TO ANNING OFF SITE OF THE PROPOSED DEVELOMENT OR NITO WETLAND TEAS. NO MATERIAL SHALL BE PLACED WITHIN A REGULATED WETLAND TEAS. NO MATERIAL SHALL BE PLACED WITHIN A REGULATED WETLAND TEAS EITHER ON OR OFF SITE.

CONSTRUCTION SEQUENCE: (INDIVIDUAL LOT DEVELOPMENT)

- NSTALL EROSION AND SEDIMENT CONTROL MEASURES ALONG DOWN SLOPE SIDE OF THE PROPOSED LIMITS OF DISTURBANCE.
- PROVIDE ANTI TRACKING PAD AND TEMPORARY POWER TO THE SITE.
- VSTALL SEPTIC SYSTEM AND WELL.
- PROVIDE DRIVEWAY AND UTILITIES TO THE RESIDENCE LOAM, SEED & MULCH DISTURBED AREAS.

3. REMOVE EROSION AND SEDMENT CONTROL WHEN VEGETATIVE COVER HAS SEEN ESTABLISHED.

GENERAL DEVELOPMENT PLAN

PRIOR TO THE COMMENCEMENT OF OPERATIONS IN ACCORDANCE WITH ANY PERMIT ISSUED BY THE TOWN OF BEROOKLYN PLANNING AND ZONING COMMISSION, THE CONTRACTOR SHALL NSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES.

IE CONTRACTOR SHALL OBTAIN A SITE INSPECTION FROM THE TOWN OF BROOKLYN ZONING FORGEMENT OFFICER OR WETLANDS AGENT TO ENSURE THAT ALL EROSION AND SEDIMENT OFFICER OR WETLANDS AGENT TO ENSURE THAT ALL EROSION AND SEDIMENT ONTROL MEASURES HAVE BEEN INSTALLED IN ACCORPANCE WITH THIS NAFRATING LIPON APPROVAL THAT THE SITE OF THE PROPERTY OF THE SITE OF THE SITE OF THE STALLATION OF THE SITE OF THE SITE OF THIS NAFRATIVE.

ALL STRIPPING IS TO BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA, TOPSOIL SHALL BE STOCKPILED SO THAT SUDPES DO NOT EXCEED 2 TO 1. THERE SHALL BE NO BURIAL OF STUMPS. A HAY BALE OR SILT FENCE SEDIMENT BARRIERI IS TO SURROUND EACH STOCKPILE AND A TEMPORARY VEGETATIVE COVER PROVIDED IF NECESSARY.

DUST CONTROL WILL BE ACCOMPLISHED BY SPRAYING WITH WATER.

INAL STABILIZATION OF THE SITE IS TO FOLLOW THE PROCEDURES OUTLINED IN PERMANENT VEGETATIVE: SOVER, IF NECESSARY A TEMPORARY VEGETATIVE COVER IS TO BE PROVIDED UNTIL A PERMANENT

IRING THE STABILIZATION PERIOD, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INTAINED IN PROPER WORKING ORDER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING EROSION AND SEDMENT CONTROL ON A TWICE-WEEKLY BASIS DURING THE BLIZATION PERIOD METH EACH STORM SIENT. DURING THE STABILIZATION DETHOD WITH BLIZATION PERIOD AND AFTER EACH STORM SIENT. DURING THE STABILIZATION PERIOD WITH COCCURS WITHIN DISTURBED AREAS SHALL BE EDATELY REPAIRED, RESEEDED AND RE-ESTABLISHED.

ALL DISTURBED SLOPES SHALL BE STABILIZED WITHIN ONE SEASON (SPRING OR FALL) OF THE COMPLETION OF THE PROJECT BEFORE A CERTIFICATE OF COMPLIANCE WILL BE ISSUED.

ONCE STABLIZATION HAS BEEN COMPLETED AND APPROVED BY THE TOWN OF BROOKLYN ZONING ENFORCEMENT OFFICER, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED BY THE CONTRACTOR:

- . DIG A 6" DEEP TRENCH ON THE UPHILL SIDE OF THE BARRIER LOCATION.
- 2. POSITION THE POSTS ON THE DOWNHILL SIDE OF THE BARRIER AND DRIVE THE POSTS 1.5 FEET INTO THE GROUND.
- LAY THE BOTTOM 6° OF THE FABRIC IN THE TRENCH TO PREVENT UNDERMINING AND ACKFILL.

- INSPECT AND REPAIR BARRIER AFTER HEAVY RAINFALL.
- S. INSPECTIONS WILL BE MADE AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER TO DETERMINE MAINTENANCE NEEDS.
- SEDIMENT DE POSITS AAFE TO BE BEMOVED WHEN THEY REACH A HEIGHT OF 1 FOOT HIND. THE BARRER OR HAF THE HEIGHT OF THE BARRIER AND ARE TO BE DEPOSITED IN VAREA WHICH IS NOT REGULATED BY THE INLAND WETLANDS COMMISSION.
- REPLACE OR REPAIR THE FENCE WITHIN 24 HOURS OF OBSERVED FAILURE. FAILURE OF HE FENCE HAS OCCURRED WHEN SEDIMENT FAILS TO BE RETAINED BY THE FENCE
- THE FENCE HAS BEEN MONETOPPED, UNDEROUT OR WASSED BY RUNOFF WATER, THE FENCE HAS BEEN MONETOPPED, UNDEROUT OR THE FENCE HAS BEEN MONETOPPED OUT OF POSITION, OR THE GEOTEXTILE HAS DECOMPOSED OR BEEN DAMAGED.

HAY BALE INSTALLATION AND MAINTENANCE:

1. BALES SHALL BE PLACED AS SHOWN ON THE PLANS WITH THE ENDS OF THE BALES TIGHTLY ABUTTING EACH OTHER.

EACH BALE SHALL BE SECURELY ANCHORED WITH AT LEAST 2 STAKES AND GAPS BETWEEN ALES SHALL BE WEDGED WITH STRAW TO PREVENT WATER FROM PASSING BETWEEN THE ALES.

3. INSPECT BALES AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER TO DETERMINE MAINTENANCE NEEDS.

4. REMOVE SEDIMENT BEHIND THE BALES WHEN IT REACHES HALF THE HEIGHT OF THE BALE AND DEPOSIT IN AN AREA WHICH IS NOT REGULATED BY THE INLAND WETLANDS COMMISSION

5. REPLACE OR REPAIR THE BARRIER WITHIN 24 HOURS OF OBSERVED FAILURE. FAILURE OF THE BARRIER HAS OCCURRED WHEN SEDIMENT FAILS TO BE RETAINED BY THE BARRIER THE BARRIER HAS BEEN OVERTOPPED, UNDERCUT OR BYPASSED BY RUNOFF WATER, THE BARRIER HAS BEEN MOVED OUT OF POSITION, OR THE HAY BALES HAVE DETERIORATED OR BEEN DAMAGED.

TEMPORARY VEGETATIVE COVER

SEED IS APPLED, 10-10-10 FERTILIZER AT A RATE OF 7.5 POUNDS PER 1000 S.F.
LIMESTONE AT A RATIC OF 90 LISE PER 1000 S.F. SHALL BE USED, PER GRASS APPLED AT A
RATE OF 1 LIB. PER 1000 S.F. SHALL PROVIDE THE TEMPORARY VEGETATIVE COVER. STRAW
FREE FROM WEEDS AND COARSE MATTER SHALL BE USED AT A RATIC OF 7:0-90 LISE. PER 1000 S.F.
AS A TEMPORARY MULCH. APPLY A JUTE NETTING COVER TO SLOPES OF 3:1 OR GREATER SLOPE. A TEMPORARY SEEDING OF RYE GRASS WILL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF STOCKPILES. IF THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION INCHES BEFORE THE FERTILIZER, LIME AND

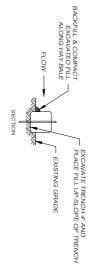
PERMANENT VEGETATIVE COVER

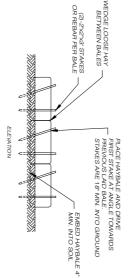
TOPSOIL WILL BE REPLACED ONCE THE EXCANATION AND FILL PLACEMENT HAS BEEN COMPLETED AND THE SLOPES ARE GRADED TO A SLOPE NO GREATER THAN 2 TO 1. PROVIDES SLOPE PROTECTION ON ALL CUT SLOPES, TOPSOIL WILL BE SPREAD AT A MINIMUM COMPACTED DEPTH OF A INCHES. ONCE THE TOPSOIL HAS BEEN SPREAD, ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION WILL BE REMOVED AS WELL AS DEBRIS, APILY AGRICULTURAL GROUND LIMISTONE AT THE RATIO OF TWO TONS PER ACRE OR TOBES. PER 1000 S.F. APPLY 10-10-10 FERTILIZER OR EQUIVALENT AT A PATE OF 300 LBS. PER ACRE OR TO TALES. PER S.F. WORK LIMISTONIE NTO THE SOIL TO A DEPTH OF A INCHES. INSPECT SEEDBED SEFONS. IF TRAFFIC HAS COMPACTED THE SOIL TO A MICHES. INSPECT SEEDBED TO THE SEEDING. IF TRAFFIC HAS COMPACTED THE SOIL FETTLL COMPACTED AREAS. APPLY THE FOLLOWING GRASS SEED MIX:

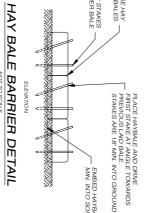
PERENNIAL RYEGRASS	CREEPING RED FESCUE	KENTUCKY BLUEGRASS	SEED MIXTURE	
45	20	20	LBS:/ACRE	
1.00	0.45	0.45	LBS./1000 S	

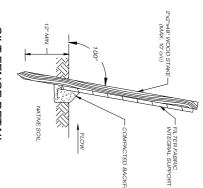
THE RECOMMENDED SEEDING DATES ARE: APRIL 1 - JUNE 15 AND AUGUST 1 - SEPTEMBER 15

FOLLOWING SEEDING, MULCH WITH WEED FREE STRAW AND APPLY A JUTE NETTING COVER TO AREAS OF 3:1 OR GREATER SLOPE

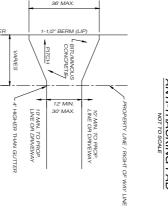








SILT FENCE DETAIL



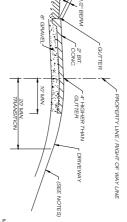
NO MOTTLING NO WATER NO LEDGE

Y FINE SANDY LOAM WELLY/COBBLY LOAMY MED. SAND w/ "BOULDERS

10.4 OR NO. 6 STONE

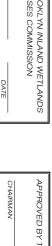
PECOLATION RATE

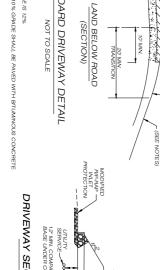
.23 MIN./INCH AT 24* DEPTH





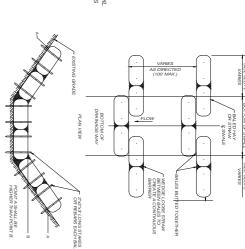
- MAXIMUM DRIVEWAY GRADE IS 12%
- APPROVED BY THE BROOKLYN INLAND WETLANDS & WATERCOURSES COMMISSION





3. SIDE SLOPES TO BE 3H:TV
4. REFERENCE IS MADE TO BROOKLYN PUBLIC IMPROVEMENT SPECIFICATIONS 2. DRIVEWAYS IN EXCESS OF 10% GRADE SHALL BE PAVED WITH BITUMINOUS CONCRETE

PER SECTION 8-26: OF THE CONNECTICUT GENERAL STATUTES AMENDED APPROVAL AUTOMATICAL IN EXPRESS EAL PHYSICAL IMPROVEMENTS REQUIRED BY THIS PLAN ARE NOT COMPLETED BY THAT DATE



MOTTLING @ 25* WATER @ 71* NO LEDGE

PERCOLATION RATE:

8 MIN /INCH AT 18" DEPTH

SOIL TEST DATA - LOT 18

MOTTLING @ 23* WATER @ 57* NO LEDGE

VDY LOAM D FINE SANDY LOAM DWATER

SEPTIC SYSTEM NOTES - LOT 17

4 BEDROOM HOUSE
PERCOLATION RATE: 8 MIN /INCH
PERCOLATION RESTRICTIVE LAYER = 23°
MALSS: 26(HF) × 1 /0(FF) × 1 /3(FF) = 45° MLSS
USE STANDARD 12° DEEP × 48° WIDE LEACHING TRENCHES
MAXIMUM DEPTH /INTO GRADE: 9°
EFRECTIVE LEACHING AREA OF TRENCH = 3.0 SF/LF
LENGTH OF TRENCH REQUIRED = (577.5 SF)/(3.0 SF/LF) = 192.5 LF
USE THAREE 68° TRENCHES 8° O/C
USE SPROVIDED = 68°
SEACHING AREA PROVIDED = 588 SF
SEPTIC TANK: 1500 GALLON
ENGINEERED SYSTEM REQUIRED

SOIL TEST DATA - LOT 17

TP 302 0-12"



NO MOTTLING NO WATER NO LEDGE

NO MOTTLING NO WATER NO LEDGE

0-11" TOPSOIL 11-36" LOAMY SAND 36-84" GRAVELLY MED. LOAMY SAND W/ COBBLES/STONES

USE STANDARD 12" DEEP x 48" WIDE LEACHING TRENCHES MAXMUM DEPTH NITO GRADE: N/A EFFECTIVE LEACHING AREA OF TRENCH = 3.0 SF/LF USE THREE 86" TRENCHES 8" O/C LEACHING AREA PROVIDED = 585 SF SEPTIC TANK: 1500 GALLON

ATION RATE: 2.35 MIN./INCH IVE LEACHING AREA REQUIRED = 577.5 SF TO RESTRICTIVE LAYER = N/A

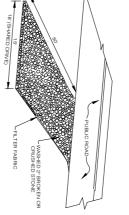
TP 303

TP 304

EPTIC SYSTEM NOTES - LOT 19
BEDROOM HOUSE
BRODATION RATE: 1.23 MIN./IN

ATION RATE: 1.23 MIN./INCH VE LEACHING AREA REQUIRED = 577.5 SF 'O RESTRICTIVE LAYER = N/A

3-9° TOPSOIL 3-37° LOAMY SAND 37-83° GRAVELLY MED. LOAMY SAND W/ COBBLES/STONES



TP 305

SOIL TEST DATA - LOT 19

PERCOLATION RATE:

2.35 MIN./INCH @ 18" DEPTH

USE STANDARD 12" DEEP x 48" WIDE LEACHING TRENCHES MAXIMUM DEPTH INTO GRADE: N/A
EFFECTIVE LEACHING AREA OF TRENCH = 3.0 SF/LF
LENGTH OF TRENCH REQUIRED = (577.5 SF)/(3.0 SF/LF) = 192.5 LF
USE THREE 68" TRENCHES 8" O/C
LEACHING AREA PROVIDED = 585 SF
SEPTIC TANK: 1500 GALLON

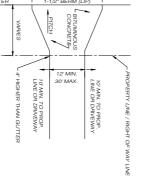
ANTI-TRACKING PAD

NO MOTTLING NO WATER NO LEDGE

/ FINE SANDY LOAM WELLY/COBBLY LOAMY MED. SAND w/ BOULDERS

SOIL TESTING PERFORMED 1/17/2020 BY N.D.D.H. FILE NO. 20000155

TP 306





PLAN

IDS REQUIRE THAT SPOILS BE PLACED 24"
PET TRENCH.
FILL SHALL NOT CONTAIN ASH, CINDER,
ATERIAL, LOOSE DEBRIS OR STONES, LARGER
TNISION.
TRINES SHALL BE NO CLOSER THAN 18" IN

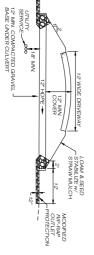
(ELEC., TELE., CTV)

24" MIN. 36" MAX. OR AS REQ'D BY UTILITY CO.

UNDERDRAIN TRENCH

UTILITY TRENCH DETAIL NOT TO SCALE

MODIFIED RIPRAP SWALE



DRIVEWAY SECTION AT CULVERT CROSSING

Killingly Engineering Associates 114 Westont Road PO 1864-21 Day-tile, Commission 60641

APPROVED BY THE BROOKLYN PLANNING & ZONING COMMISSION

KINGSWOOD ESTATES

EROSION CONTROL PLAN & CONSTRUCTION DETAILS SUBDIVISION OF LAND

NANCY M. BELL DAVID P. BELL PREPARED FOR



BROOKLYN, CONNECTICUT CHURCH STREET 63 SNAKE MEADOW RD KILLINGLY, CT 06239 860 774 6230



NORTHEAST DISTRICT DEPARTMENT OF HEALTH

69 South Main Street, Unit 4, Brooklyn, CT 06234 860-774-7350/Fax 860-774-1308 www.nddh.org

July 24, 2020

David & Nancy Bell PO Box 358 Brooklyn, CT 06234

SUBJECT: FILE #20000155 -- CHURCH STREET #, MAP #35, LOT #4, BROOKLYN, CT

Dear David & Nancy Bell:

Upon review of the subdivision plan (PC SURVEY ASSOCIATES, LLC, BELL, JOB#18016, DRAWN APRIL 2020) submitted to this office on 06/30/2020 for the above referenced subdivision, The Northeast District Department of Health concurs with the feasibility of this parcel of land for future development. Additionally, approval to construct individual subsurface sewage disposal systems may be granted based on compliance with appropriate regulations and the Technical Standards as they apply to individual building lots with the following notations:

- 1. Lot 17 requires that a Professional Engineer design and submit an individual plot plan for review and approval prior to construction.
- 2. Lots 18, 19 require surveyor's plot plans to be submitted for review and approval prior to construction.
- 3. Proposed lots are based on 4 bedroom homes at the locations tested. If the number of bedrooms are increased, septic system sizes will require an increase per the Technical Standards.
- 4. If the proposed septic area is moved, additional testing may be required.

Be advised you must receive approval from the appropriate commissions in the Town of Brooklyn prior to construction of these lots.

This letter is NOT to be construed as an APPROVAL TO CONSTRUCT the septic system and DOES NOT indicate that the Northeast District Department of Health endorses approval for issuance of any building permit.

Should you have any questions, please feel free to contact the sanitarian that reviewed your plan.

Sincerely,

Sherry McGann, RS

Registered Sanitarian-NDDH

Sheng muson

cc: Town of Brooklyn; PC Survey Associates, LLC.

I have reviewed the revised plans for the Bell's 3-lot subdivision on Church Street, which were prepared by PC Survey Associates. Here is what I found with respect to my previous comments of July 12, 2020:

Sheet 2 of 5

Comment 1 was not addressed. with respect to marking the conservation easement on the plans with post-mounted signs. I believe it is important to identify the easement with signs in the field, especially where the easement crosses property lines, to let future homeowners know that this is a "hands off" area as far as land disturbance goes. The detail sheet 3 of 4 did not contain any sign detail either.

Sheet 3 of 4

Even though a letter from NDDH to the Bells was submitted to you, PC Survey did not provide their explanation as requested. I believe it is important to know why this note was placed on the plan.

Sheet 4 of 4

Comments 1 thru 4 have been addressed with the construction details updated on the plan.

General Comment

The seal and signature of the professional engineer has not been affixed to the revised plans. And, the soil scientist's signature block has not been included either.

Considering the above, it is my professional opinion that the plans remain incomplete.

Syl

(email sent 8-20-2020)