



September 9, 2015

Department of Environmental Conservation  
Rivers Program  
One National Life Drive – Main 2  
Montpelier, VT 05620-3522



RE: Indian Brook Properties, LLP  
Stream Alteration General Permit Application

To whom it may concern:

We are writing on behalf of Indian Brook Properties, LLP c/o Stephen Unsworth to apply for coverage under the Stream Alteration General Permit. The project involves a 9 lot subdivision located at 9 Indian Brook Rd in Essex. A new 15' wide shared gravel driveway will be constructed to provide access to two of the proposed lots. This project will require a Stream Alteration Permit for the installation of an arch culvert across a tributary to Indian Brook associated with the shared driveway. The construction of the culvert will include the movement of fill material and excavation in excess of 10 cy. Please contact us if you have any questions.

The following materials are attached:

- Completed application and check for \$200.00 to cover application fee
- Location Map
- Abutters List
- 2 copies of project design plans 1, 2, & 5

Sincerely,

Doug Goulette, P.E.

c: Stephen Unsworth  
Town of Essex Select Board  
Town Clerk, Town of Essex  
Town of Essex Planning and Zoning  
Chittenden County Regional Planning Commission

P:\1995\95057\Stream alteration permit\Cover letter.docx

VERMONT AGENCY OF NATURAL RESOURCES

APPLICATION FOR COVERAGE UNDER THE STREAM ALTERATION GENERAL PERMIT FOR REPORTING ACTIVITY (SECTION C.2.2)

10 VSA, SECTIONS 1022 & 7503

Applicant Name Indian Brook Properties, LLC c/o Stephen Unsworth

Mailing Address P.O. Box 123 Essex Junction, VT 05452

Phone 879-7133x21 Cell Email Stephen@unsworthlaw.net

Landowner (if different than applicant)

Landowner Mailing Address Phone Email

Project Location: Address 9 Indian Brook Road Town Essex Lat 44.520193 River Tributary to Indian Brook Drainage Area 442.5 ac Long -73.087267

Brief Project Description This project is a 9 lot residential subdivision with one driveway crossing over a tributary to Indian Brook.

Consultant or Designer (if known) Lamoureux & Dickinson - Doug Goulette Phone 878-4450 Email Dougg@LDengineering.com

Contractor (if known) Phone Email

Required Attachments (additional information may be required after initial application review)

- Location Map
List of adjacent landowners; names and addresses
2 copies of project design drawings including: plan view, cross sections, existing and proposed conditions, bankfull width (channel width at high water)

\*\*APPLICANT MUST FILE COPY OF THIS APPLICATION WITH TOWN CLERK AND ADJOINERS\*\*

CERTIFICATION: I hereby certify that the information on this application is, to the best of my knowledge, true and accurate and that I have provided a copy of this application to the Clerk of the municipality in which this activity is located, the local and regional planning commissions, and to each adjoining landowner as required in the Vermont Stream Alteration Rule. I recognize that by signing this application I am giving consent to employees of the State to enter the subject property for the purpose of processing this application and for ensuring compliance with subsequent agency decisions relating to the project.

Print Full Name Stephen Unsworth

Applicant Signature [Handwritten Signature]

Date 7/6/2015

NOTE: A PERMIT MAY BE REQUIRED FROM THE US ARMY CORPS OF ENGINEERS. For information contact: US Army Corps of Engineers, VT Project Office, 11 Lincoln St - Rm210, Essex Jct VT 05452 802-872-2893

Agency Use Only
Project ID
Receipt Date
If >10 square miles use Individual Permit

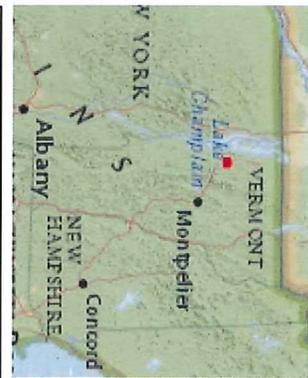




965.0  
0 482.00 965.0 Meters  
WGS\_1984 Web Mercator Auxiliary Sphere  
© Vermont Agency of Natural Resources  
1" = 1582 Ft 1cm = 190 Meters  
THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

1: 18,988  
July 7, 2015



**LEGEND**

- Stream
- Town Boundary

**NOTES**

Map created using ANR's Natural Resources Atlas

John & Sharon Gabric  
18 Indian Brook Road  
Essex Junction, VT 05452

Stephen & Nancy Dowd  
28 Indian Brook Road  
Essex Junction, VT 05452

Tracy Coombs & Leah Lohmeyer  
84 Indian Brook Road  
Essex Junction, VT 05452

Barry Yatzor & Linda Morgan  
Trust  
131 Lost Nation Road  
Essex Junction, VT 05452

Indian Brook Reservoir  
Town of Essex  
81 Main Street  
Essex Junction, VT 05452

Allen Packard  
123 Indian Brook Road  
Essex Junction, VT 05452

Kimberly Lenz  
124 Indian Brook Rd  
Essex Junction, VT 05452

Lawrence & Joanne Packard  
120 Indian Road  
Essex Junction, VT 05452

Clay & Linda Barrows  
P.O. Box 8098  
Essex Junction, VT 05451-8098

Lawrence & Carol Girard  
90 Indian Brook Road  
Essex Junction, VT 05452

Christopher & Tamara Murtha  
86 Indian Brook Road  
Essex Junction, VT 05452

Mark Lavigne  
82 Indian Brook Road  
Essex Junction, VT 05452

Stefan & Diane Strackbein  
16 South Hill Drive  
Essex Junction, VT 05452

Irene Walter  
4309 Cross Country Dr  
Ellicott City, MD 21042

Bruce & Marie St. Peter Life Estate  
71 Indian Brook Road  
Essex Junction, VT 05452

Bruce Gabaree  
64 Indian Brook Road  
Essex Junction, VT 05452

Jace Bigelow  
44 Indian Brook Road  
Essex Junction, VT 05452

Lois Humphries  
54 Indian Brook Road  
Essex Junction, VT 05452

Walter & Judy Adams Life Estate  
60 Indian Brook Road  
Essex Junction, VT 05452

Alexander & Nataliya Sarkisian  
34 Indian Brook Road  
Essex Junction, VT 05452

Jeffery & Lezlee Sprenger  
4 Walden Woods  
Essex Junction, VT 05452

Frederick Jr. & Jeannie Evans  
8 Walden Woods  
Essex Junction, VT 05452

Carmen & Christopher Tall  
Living Trust  
10 Walden Woods  
Essex Junction, VT 05452

Pierre Menard  
12 Walden Woods  
Essex Junction, VT 05452

Merton Esmond  
7 Walden Woods  
Essex Junction, VT 05452

Samuel & Julie Smith  
5 Walden Woods  
Essex Junction, VT 05452

Tatum O'Malley  
43 Indian Brook Road  
Essex Junction, VT 05452

Seth & Ellen Goodhue  
35 Indian Brook Road  
Essex Junction, VT 05452

George & Lucille Larrabee  
P.O. Box 8179  
Essex Junction, VT 05451-8179

Essex Alliance Church  
37 Old Stage Road  
Essex Junction, VT 05452

Alan & Rachell Yeager  
P.O. Box 8392  
Essex, VT 05451-8392

Stephen & Nina Warren  
42 Old Stage Road  
Essex Junction, VT 05452

Norbert & Audrey Collins  
52 Old Stage Road  
Essex Junction, VT 05452

Brian & Amy Bigelow  
66 Old Stage Road  
Essex Junction, VT 05452

Timothy Trepani &  
Angela Reisenauer-Trepani  
79 Old Stage Road  
Essex Junction, VT 05452

Herbert Germain &  
Margaret Bushey  
69 Old Stage Road  
Essex Junction, VT 05452

Christine Louis Packard  
Revocable Trust  
75 Old Stage Road  
Essex Junction, VT 05452

Donald von Gal &  
Anna von Gal Revocable Trust  
63 Old Stage Road  
Essex Junction, VT 05452

Keneth Jr. & Marilyn Beilstein  
Life Estate  
11 Walden Woods  
Essex Junction, VT 05452

Michael & Patricia Bergeron  
88 Old Stage Road  
Essex Junction, VT 05452

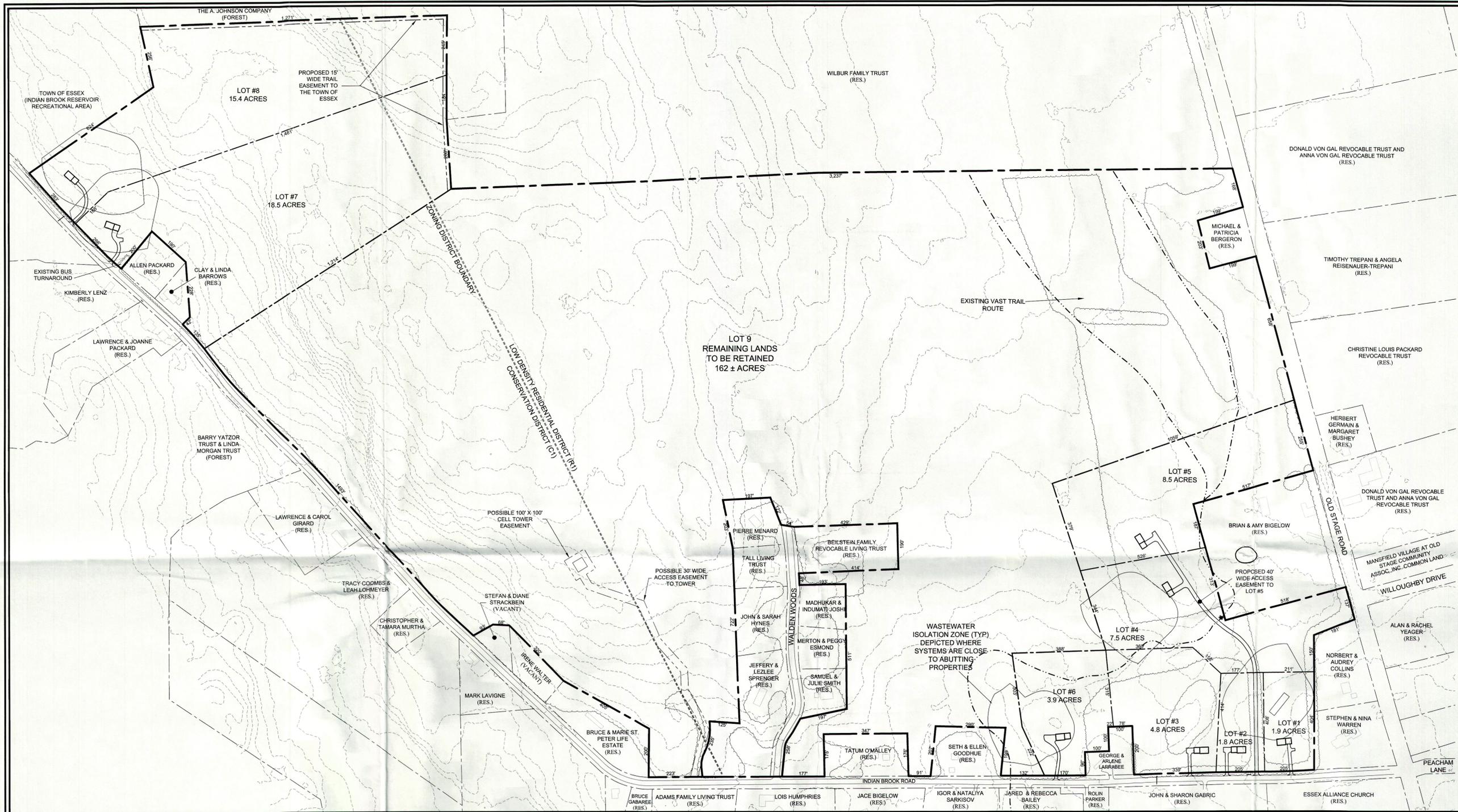
Lloyd & Donna Wilbur Trustees  
3648 Tarpon Road  
Lake Havasu City, AZ 86406-4222

The A. Johnson Company  
995 South 116 Road  
Bristol, VT 05443

Rebecca Bailey  
32 Indian Brook Road  
Essex Junction, VT 05452

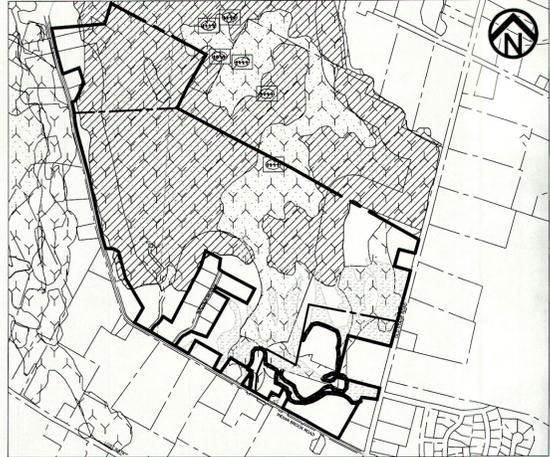
Madukar & Indumati Joshi  
9 Walden Woods  
Essex Junction, VT 05452

Lamore & Marsha Roland  
8 Curve Hill Road  
Essex Junction, VT 05452



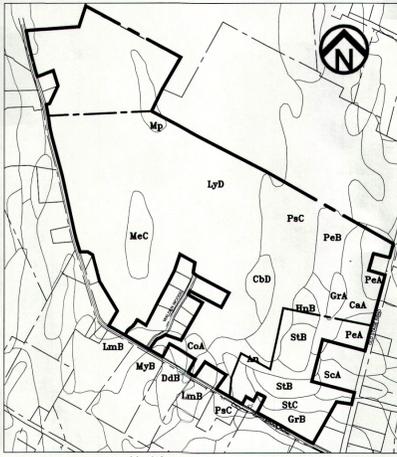
NOTE: GROUND SURFACE CONTOURS WERE GENERATED FROM 2004 LIDAR DATA AND LIMITED TOPOGRAPHIC SURVEY BY L&D.

Project Statistics	
Parcel size:	224.0 ± acres
Zoning district:	R1 & C1
Minimum lot size:	1 acre 10 acres
Minimum lot frontage:	150' 200'
Front setback:	45 feet 50 feet
Side setback:	20 feet 25 feet
Rear setback:	20 feet 20 feet
Proposed use:	Single-family residential
Sewage disposal:	Indiv. & Shared systems
Water supply:	Individual on-site systems



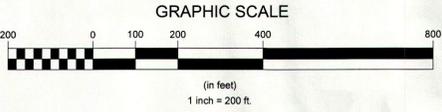
Site Location & Significant Features Map  
Scale: 1" = 1000"  
Source: Town of Essex, GIS drawing, Significant Features Layers

Significant Features Legend	
	DEER YARDS
	CONTIGUOUS HABITAT
	CROSSING VALUE
	VERNAL POOLS
	CORE HABITAT
	APPROX. WETLANDS (FROM L&D RECON.)



Soil Classification Map  
Scale: 1" = 1000"  
Source: Town of Essex, GIS layers, NRCS Soil Survey data

Soil Key	
An	Alluvial land
CaA	Cabot stony silt loam, 0 to 3% slopes
CdD	Cabot extremely stony silt loam, 3 to 25% slopes
CoA	Colton gravelly loamy sand, 0 to 5% slopes
DdB	Duane & Deerfield soils, 5 to 12% slopes
GrA	Groton gravelly fine sandy loam, 0 to 5% slopes
GrB	Groton gravelly fine sandy loam, 5 to 12% slopes
HnB	Hinesburg fine sandy loam, 3 to 8% slopes
LmB	Lyman-Marlow rocky loams, 5 to 12% slopes
LyD	Lyman-Marlow very rocky loams, 5 to 30% slopes
MeC	Marlow extremely stony loam, 5 to 20% slopes
Mp	Muck and peat
MyB	Munson & Raynham silt loam, 2 to 6% slopes
PeA	Peru stony loam, 0 to 5% slopes
PeB	Peru stony loam, 5 to 12% slopes
PcC	Peru extremely stony loam, 0 to 20% slopes
ScA	Scantic silt loam, 0 to 2% slopes
StB	Stetson gravelly fine sandy loam, 5 to 12% slopes
StC	Stetson gravelly fine sandy loam, 12 to 20% slopes



THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

Legend

	Project Perimeter
	Proposed Lot Line
	Abutting Property Line (approximate)
	Proposed Building Envelope Limits
	Existing Ground Contour
	Possible Sewage Area
	Wetland Boundary
	Proposed Building Envelope
	VAST Trail
	Stream

Date	Revision	By

These plans shall only be used for the purpose shown below:

	Sketch/Concept		Act 250 Review
	Preliminary		Construction
	Final Town/State Review		Record Drawing

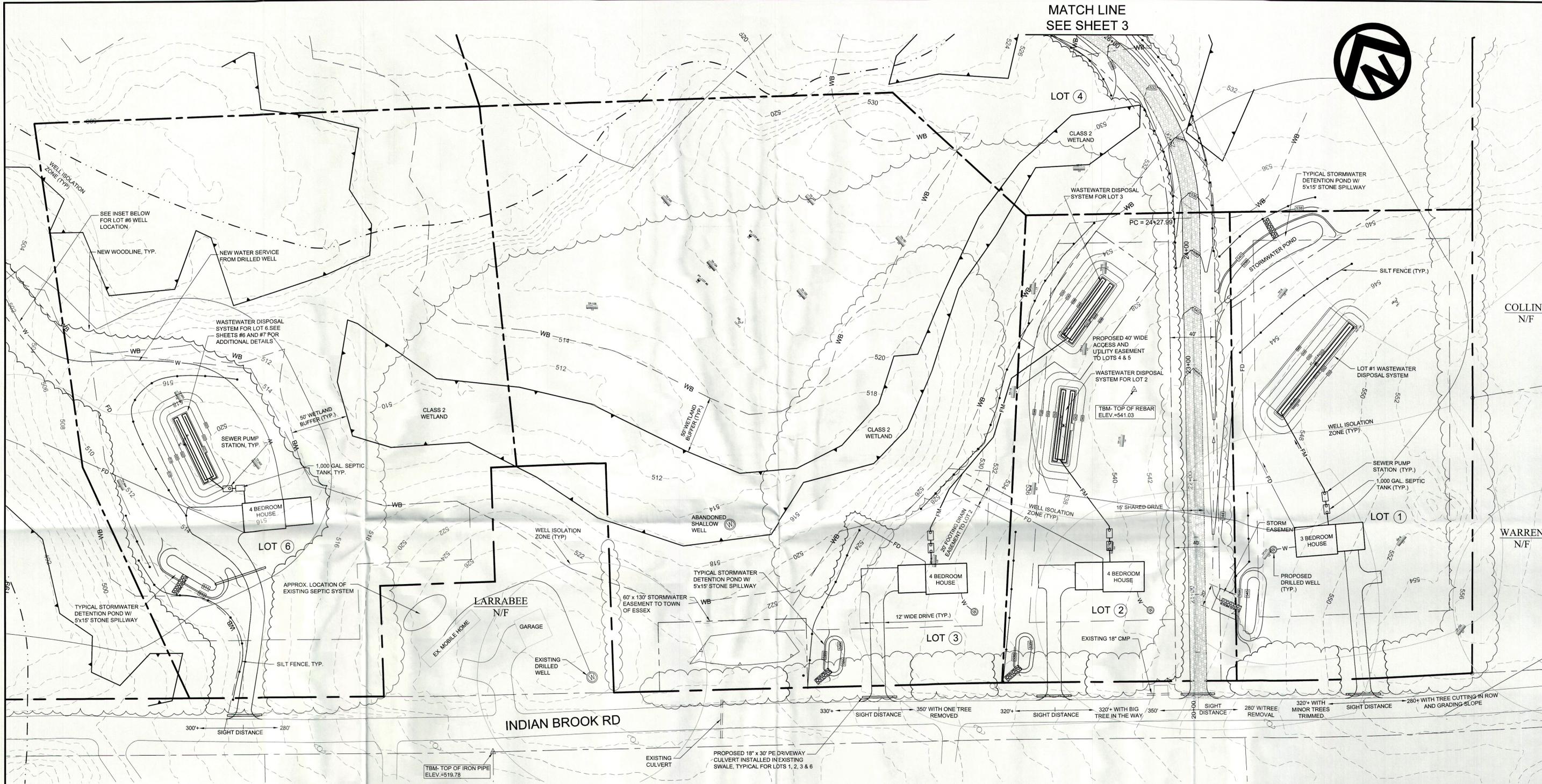
**Indian Brook Properties, LLP**  
**Proposed 9-Lot Conventional Subdivision**  
 9 Indian Brook Road, Essex, Vermont

**Overall Site Plan**

Project No.	95057
Survey L&D	DJG
Design	DJG/ABR
Drawn	DJG
Checked	DJG
Date	7-1-15
Scale	1" = 100'
Sheet number	1

**Lamoureux & Dickinson Consulting Engineers, Inc.**  
 14 Morse Drive, Essex, VT 05452  
 802-878-4450 www.LDEngineering.com

MATCH LINE  
SEE SHEET 3



COLLINS  
N/F

WARREN  
N/F

INDIAN BROOK RD

LOT 6

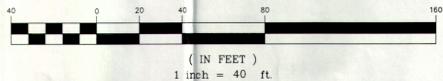
LOT 2

LOT 3

LOT 1

LARRABEE  
N/F

GRAPHIC SCALE



THE CONTRACTOR SHALL NOTIFY "DIGSAFE"  
AT 811 PRIOR TO ANY EXCAVATION.

**ROOFTOP DISCONNECTION REQUIREMENTS:**  
THE FINAL SITE GRADING SHALL BE SUCH THAT THE FOLLOWING MINIMUM REQUIREMENTS ARE MET:  
- AN AREA SURROUNDING THE HOUSE SHALL BE GRADED AT A MAXIMUM SLOPE OF 5% FOR A DISTANCE AT LEAST EQUAL TO LENGTH OF THE CONTRIBUTING ROOFTOP (AS MEASURED FROM THE PEAK TO THE DRIP EDGE)  
- IF GUTTERS ARE USED TO COLLECT ROOFTOP RUNOFF, THEN:  
- EACH DOWNSPOUTS SHALL NOT COLLECT MORE THAN 1000 SF OF ROOFTOP  
- EACH DOWNSPOUT OUTLET SHALL BE AT LEAST 10 FEET FROM THE NEAREST IMPERVIOUS SURFACE  
- A SPREADING DEVICE SHALL BE PROVIDED TO DISPERSE THE FLOW AT THE DOWNSPOUT OUTLET

**LEGEND**

**EXISTING FEATURES**

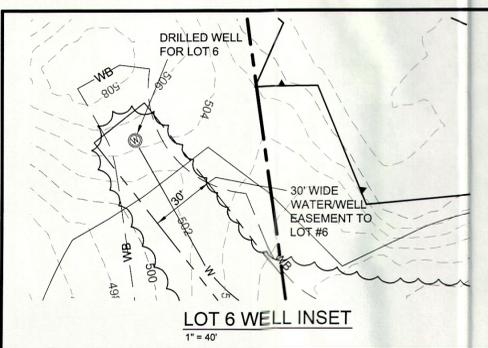
- ABUTTING PROPERTY LINE
- PROPOSED LOT LINE
- PROPOSED BUILDING ENVELOPE
- 500 --- EXISTING GROUND CONTOUR
- WETLAND UPLAND --- DELINEATED CLASS 2 WETLAND BOUNDARY
- DELINEATED CLASS 2 WETLAND BUFFER
- DELINEATED CLASS 3 WETLAND

**PROPOSED FEATURES**

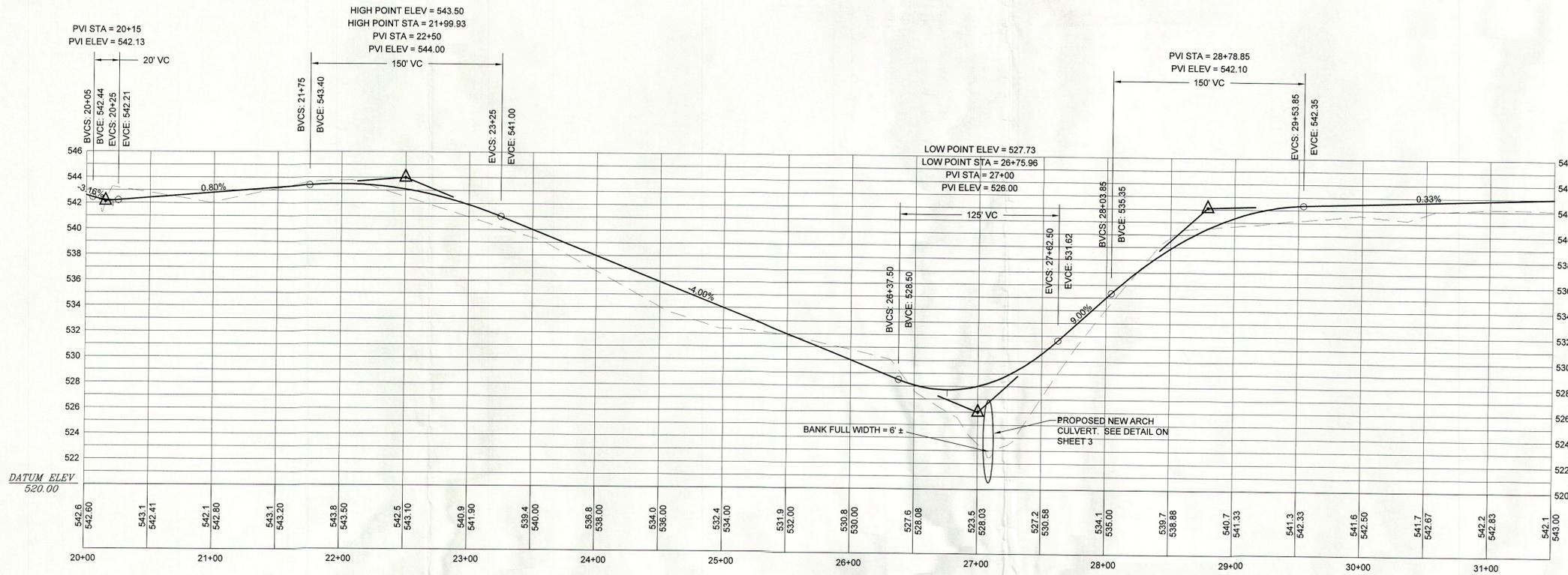
- FINISH GRADE CONTOUR
- DRILLED WELL
- SEWER FORCEMAIN
- FOOTING DRAIN
- WATER LINE
- DRAINAGE SWALE
- SILT FENCE

**NOTES:**

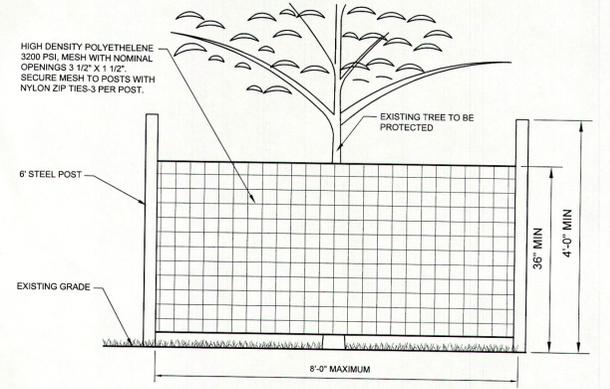
1. HOUSES AND DRIVEWAY LOCATIONS ARE APPROXIMATE ONLY AND MAY CHANGE BASED ON OWNER PREFERENCES.
2. FOUNDATION DRAINAGE: SEASONAL HIGH GROUNDWATER DEPTHS WERE ESTIMATED IN THE EXAMINATION OF THE SOIL TEST PITS FOR WASTEWATER SYSTEM DESIGN. HOWEVER, GIVEN THE UNPREDICTABILITY OF GROUNDWATER LEVELS, THE HOMEOWNER(S) SHALL BE RESPONSIBLE FOR INSURING THAT THE FOUNDATION AND BASEMENT DESIGN AND THE ELEVATION AT WHICH THEY ARE CONSTRUCTED, ACCOUNT FOR THE POSSIBILITY OF THE PRESENCE OF GROUNDWATER. MEASURES INCLUDING, BUT NOT LIMITED TO, WATERPROOFING OF FOUNDATION WALLS, INSTALLATION OF FOUNDATION AND SLAB DRAINAGE MATERIALS AND PIPING, SUMP PUMPS, AND FOUNDATION DRAINS TO DAYLIGHT SHOULD BE CONSIDERED TO ADDRESS EXPECTED OR UNEXPECTED HIGH GROUNDWATER CONDITIONS. LAMOUREUX AND DICKINSON WAIVES ANY AND ALL LIABILITY RELATED TO BASEMENT WATERPROOFING OR DE-WATERING SYSTEMS.
3. SIGHT DISTANCES NOTED AS HAVING OBSTRUCTIONS WILL HAVE ADEQUATE DISTANCES ONCE OBSTRUCTIONS ARE REMOVED.



Date	Revision	By
These plans shall only be used for the purpose shown below:		
<input type="checkbox"/> Sketch/Concept	<input type="checkbox"/> Act 250 Review	
<input type="checkbox"/> Preliminary	<input type="checkbox"/> Construction	
<input type="checkbox"/> Final Town/State Review	<input type="checkbox"/> Record Drawing	
<b>Indian Brook Properties, LLP</b> <b>Proposed 9-Lot Conventional</b> <b>Subdivision</b> 9 Indian Brook Road, Essex, Vermont  <b>LOTS 1, 2, 3 &amp; 6</b> <b>Site Plan</b>		
Project No. 95057		Survey L&D
Design DJG/ABR		Drawn DJG
Checked DJG		Date 7-1-15
Scale		Sheet number
<b>Lamoureux &amp; Dickinson</b> <b>Consulting Engineers, Inc.</b> 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LEngineering.com		2



**LOTS 4 & 5 SHARED DRIVEWAY PROFILE**  
 SCALE: 1" = 50' HORIZONTAL  
 1" = 5' VERTICAL



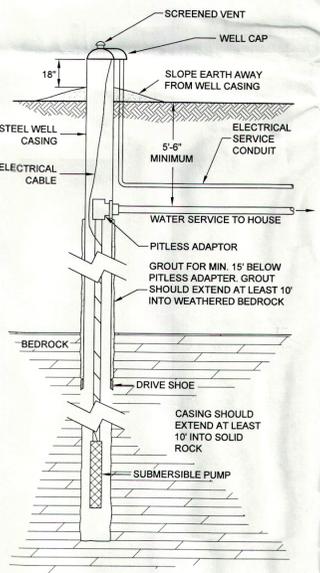
**TREE AND PLANT PROTECTION**

- PRIOR TO START OF CONSTRUCTION, INSTALL TEMPORARY PROTECTION ZONE (TPZ) FENCE IN LOCATIONS SHOWN ON PLANS FOR INDIVIDUAL TREE PROTECTION. TPZ FENCE SHALL BE PLACED AT THE EDGE OF TREE DRIP LINES. SEE DETAIL THIS SHEET.
- TPZ FENCE SHALL PROTECT EXISTING MATURE HEALTHY TREES (GREATER THAN 12" IN DIAMETER LOCATED ALONG CLEARING LIMITS SHOWN) THROUGHOUT CONSTRUCTION AGAINST CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING AND BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS, EXCESS FOOT OR VEHICULAR TRAFFIC, AND PARKING OF VEHICLES.
- WHERE TEMPORARY CLEARANCE IS NEEDED DURING CONSTRUCTION THAT MAY CONFLICT WITH EXISTING TREES, BRANCHES SHALL BE TIED BACK TO HOLD THEM OUT OF THE CLEARANCE ZONE.
- WHEN EXCAVATION IS TO OCCUR IN CLOSE PROXIMITY TO EXISTING TREES, ROOT PRUNING SHALL BE DONE PRIOR TO CONSTRUCTION. ROOTS SHALL BE CLEANLY CUT, WITH CUTS TO THE DEPTH OF THE REQUIRED EXCAVATION. WHEN COMPLETED, REPLACE SOIL IN THE TRENCH AREA.
- ROOTS ENCOUNTERED DURING EXCAVATION IN THE VICINITY OF TREE PROTECTION ZONES SHALL BE CLEANLY CUT AND PROTECTED DURING CONSTRUCTION OPERATIONS. TEMPORARILY COVER EXPOSED ROOTS WITH A DOUBLE LAYER OF DAMPENED BURLAP TO PREVENT ROOTS FROM DRYING OUT UNTIL THEY CAN BE COVERED WITH SOIL. COVER ROOTS WITH SOIL AS SOON AS POSSIBLE REMOVING BURLAP FIRST.
- WATER EXISTING TREES AND OTHER VEGETATION TO REMAIN WITHIN LIMITS OF CONTRACT WORK AS REQUIRED TO MAINTAIN THEIR HEALTH DURING THE COURSE OF CONSTRUCTION OPERATIONS.
- PRUNING OF EXISTING TREES SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL SOCIETY OF ARBORICULTURE'S TREE PRUNING GUIDELINES, THE ANSI A300 PRUNING STANDARD AND THE MOST RECENT EDITION OF ANSI Z13.1.
- REMOVE TEMPORARY PROTECTION DEVICES AND FACILITIES INSTALLED DURING COURSE OF WORK AFTER COMPLETION OF ALL WORK AND RESTORE PLANT PROTECTION AREAS TO THEIR ORIGINAL CONDITION.

GRADATION REQUIREMENTS		
MATERIAL	SIEVE SIZE	PERCENT (%) PASSING
SAND CUSHION - VT SPEC 703.03	2"	100%
	1 1/2"	90-100%
	#4	75-100%
	#100	0-20%
CRUSHED GRAVEL VT SPEC 704.05 FINE	2"	100%
	1 1/2"	90-100%
	#4	30-60%
	#100	0-12%
DENSE GRADED CRUSHED STONE VT SPEC 704.06	3 1/2"	100%
	3"	90-100%
	2"	75-100%
	#4	15-40%

**GENERAL NOTES**

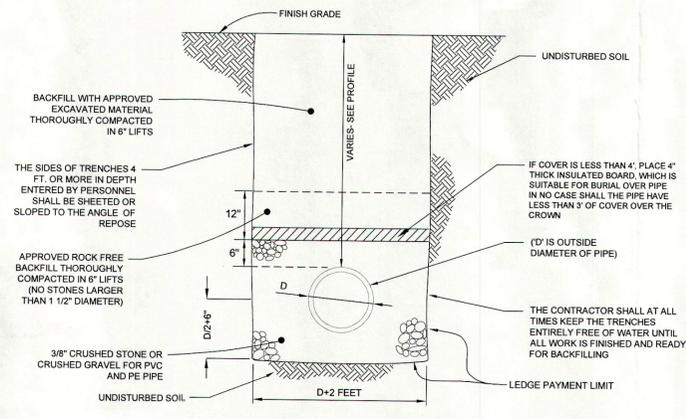
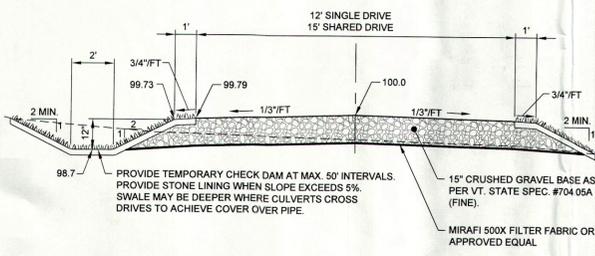
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE TOWN OF ESSEX PUBLIC WORKS SPECIFICATIONS, AND THESE PLANS.
- THE CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE EXCAVATION TO VERIFY THE LOCATION OF ANY UNDERGROUND LINES. THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.
- UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM BEST AVAILABLE SOURCES AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON. THE CONTRACTOR SHALL CONNECT OR RECONNECT ALL UTILITIES TO THE NEAREST SOURCE THROUGH COORDINATION WITH UTILITY OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING SURFACES, SOILS, VEGETATION, PAVEMENT AND STRUCTURES NECESSARY TO CONSTRUCT THIS PROJECT UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS AND TRASH FROM THE SITE UPON COMPLETION OF CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ENSURING THAT THE DUST CREATED AS A RESULT OF CONSTRUCTION DOES NOT CREATE A NUISANCE OR A SAFETY HAZARD. WHERE AND WHEN DEEMED NECESSARY BY THE ENGINEER OR OWNER, THE CONTRACTOR SHALL BE REQUIRED TO WET SECTIONS OF THE CONSTRUCTION AREA WITH WATER OR APPLY CALCIUM CHLORIDE AS DUST CONTROL.
- ANY SURFACES, LINES, OR STRUCTURES WHICH HAVE BEEN DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THE CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.
- CONSTRUCTION OBSERVATION AND CERTIFICATION IS OFTEN REQUIRED BY STATE AND LOCAL PERMITS. IT IS RECOMMENDED THAT CONSTRUCTION OF THE IMPROVEMENTS DETAILED ON THESE PLANS BE OBSERVED BY LAMOUREUX & DICKINSON CONSULTING ENGINEERS INC. (L&D) TO DETERMINE IF THE WORK IS BEING PERFORMED IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. L&D WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT MAY ARISE FROM FAILURE TO FOLLOW THESE PLANS AND SPECIFICATIONS AND THE DESIGN INTENT THAT THEY CONVEY. ANY CHANGES MADE IN THE PLANS AND SPECIFICATIONS OR IN THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS WITHOUT L&D'S PRIOR KNOWLEDGE AND CONSENT, AND/OR FAILURE TO SCHEDULE OBSERVATION OF THE WORK AND TESTING IN PROGRESS.
- FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY A MINIMUM OF ONE-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. CONTINUOUS TWO-WAY TRAFFIC WILL BE REQUIRED AT NIGHT, DURING PEAK HOURS, AND WHENEVER POSSIBLE DURING ACTUAL CONSTRUCTION ACTIVITIES. TEMPORARY CONSTRUCTION SIGNS AND TRAFFIC CONTROL SIGNS SHALL BE ERECTED BY THE CONTRACTOR IN ACCORDANCE WITH STATE AND TOWN STANDARDS.
- TO ASSURE COMPLIANCE WITH THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS IN ADVANCE OF STARTING ANY WORK, BEGINNING INSTALLATION OF ANY UTILITIES, CONSTRUCTION OF THE SEPTIC SYSTEMS, AND FINAL INSPECTION.
- THE HORIZONTAL AND VERTICAL SEPARATION FOR SEWER AND WATER LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE "TEN STATE STANDARDS - RECOMMENDED STANDARDS FOR WATER".
- TOPSOIL SHALL BE STOCKPILED, SEEDED, AND MULCHED UNTIL REUSED. SILT FENCE SHALL BE PLACED AND STAKED CONTINUOUSLY AROUND THE DOWNSLOPE PERIMETER OF THE TOPSOIL PILES.
- HEALTHY EXISTING TREES AS SHOWN ON THE SITE PLAN TO BE SAVED SHALL BE PROTECTED BY THE CONTRACTOR.
- OPEN CUT AREAS SHALL BE MULCHED OUTSIDE OF ACTUAL WORK AREAS, AND SILT FENCE SHALL BE EMPLOYED TO CONFINE SHEET WASH AND RUNOFF TO THE IMMEDIATE OPEN AREA AS ORDERED BY THE ENGINEER.
- AT COMPLETION OF GRADING, SLOPES, DITCHES, AND ALL DISTURBED AREAS SHALL BE SMOOTH AND FREE OF POCKETS WITH SUFFICIENT SLOPE TO ENSURE DRAINAGE.
- ALL FILL SHALL BE PLACED IN 6 INCH LIFTS AND THOROUGHLY COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 STANDARD PROCTOR, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL INSTALL EROSION CONTROL DEVICES AS NEEDED TO PREVENT SEDIMENTATION. THE STONE CHECK DAMS, SILT FENCES, DITCHES, AND OTHER EROSION CONTROL DEVICES, SHALL BE MAINTAINED AND REPAIRED BY THE CONTRACTOR AFTER EVERY RAINFALL RESULTING IN A DISCHARGE FROM THE SITE. UNTIL ALL DISTURBED AREAS HAVE BEEN GRASSED AND APPROVED BY THE OWNER, THE MAINTENANCE OF THE EROSION CONTROL DEVICES WILL INCLUDE REMOVAL OF ANY ACCUMULATED SEDIMENTATION.
- ALL DRILLING AND BLASTING (IF ANY) PERFORMED ON THE PROJECT SHALL BE PERFORMED BY PERSONS QUALIFIED AND EXPERIENCED IN CONTROLLED BLASTING. THE PERSON IN RESPONSIBLE CHARGE SHALL BE A BLASTER LICENSED BY THE STATE OF VERMONT.



**WATER SUPPLY BASIS OF DESIGN**

- DRILLED WELL FOR A 4-BDRM HOUSE
  - REQUIREMENTS
    - AVERAGE DAY DEMAND (DESIGN FLOW) = 490 GPD
    - MAXIMUM DAY DEMAND = 490 GPM / 720 MIN = 0.68 GAL
  - INSTANTANEOUS PEAK DEMAND = 5 GPM
  - PUMP CAPACITY = 5 GPM
  - OPERATING PRESSURE = 30 TO 60 PSI
  - STORAGE - TO BE DETERMINED BASED ON WELL YIELD
- DRILLED WELL FOR A 3-BDRM HOUSE
  - REQUIREMENTS
    - AVERAGE DAY DEMAND (DESIGN FLOW) = 420 GPD
    - MAXIMUM DAY DEMAND = 420 GPM / 720 MIN = 0.58 GAL
  - INSTANTANEOUS PEAK DEMAND = 5 GPM
  - PUMP CAPACITY = 5 GPM
  - OPERATING PRESSURE = 30 TO 60 PSI
  - STORAGE - TO BE DETERMINED BASED ON WELL YIELD

PROPOSED DRILLED WELL SITES ON PLANS THE LOCATIONS HAVE BEEN SELECTED ONLY ON THE BASIS OF WASTEWATER ISOLATION DISTANCES. NO HYDROGEOLOGIC INFORMATION WAS GATHERED OR ANALYZED TO ESTABLISH THAT THE LOCATIONS WILL SUPPLY POTABLE WATER OF SUFFICIENT QUALITY AND QUANTITY.



Date	Revision	By
These plans shall only be used for the purpose shown below:		
<input type="checkbox"/>	Sketch/Concept	<input type="checkbox"/> Act 250 Review
<input type="checkbox"/>	Preliminary	<input type="checkbox"/> Construction
<input type="checkbox"/>	Final Town/State Review	<input type="checkbox"/> Record Drawing

**Indian Brook Properties, LLP**  
**Proposed 9-Lot Conventional Subdivision**  
 9 Indian Brook Road, Essex, Vermont

**Driveway Profile & Typical Details & Specifications**

Project No. 95057  
 Survey L&D  
 Design D/JG/ABR  
 Drawn D/JG  
 Checked D/JG  
 Date 7-1-15  
 Scale

**Lamoureux & Dickinson Consulting Engineers, Inc.**  
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Sheet number **5**



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