

Subdivision Application

Land & Building Services
106 Western Ave.
Hampden, Maine 04444

207-862-4500
Danielle@hampdenmaine.gov

Second Project Application

This application is for (*check one*):

- Sketch Plan
 Minor Final
 Major Preliminary
 Major Final

PROJECT NAME: Pine Grove Estates

APPLICANT (LANDOWNER):

Name: BNA Properties, LLC

Address: PO Box 345, Bangor, ME 04402

Phone: 249-9321 Cell: _____ Email: _____

AGENT (SUBDIVIDER):

Name of agent or representative: James Kiser, Kiser & Kiser Co.

Address: PO Box 282, Hampden, ME 04444

Phone: 862-4700 Cell: _____ Email: jim@kiser-kiser.com

THE SITE:

Location: Lot C, BNA Monroe Property Hampden tax map and lot number: TM 2, Lot 24

Zoning district: Rural Existing use of property: Vacant

Legal interest in the parcel: Owns

Subdivision size (acres): 11.49 ac Proposed number of lots: 22 dwelling units

Proposal is for a Standard subdivision or a Cluster Housing development

Is there any portion of the property subject to the Shoreland Protection Ordinance? Yes No

Brief description of the proposed project: The project will develop the property into multi-family development (B-3) including 5 four-plex buildings and 1 duplex. The development will be served by on-site wastewater disposal systems and drilled drinking water wells. Utilities will be provide overhead including power, telephone and cable.

Brief description of proposed improvements: The development will have no public improvements but include private road, storm drainage and stormwater treatment systems.

1. Will your project disturb one acre or more of land area?..... Yes No
2. Is your project within the Urbanized Area? Yes No

If **Yes to 1**, you will most likely require a State Storm Water Permit, contact the Maine Dept. of Environmental Protection.

If **Yes to both 1 and 2**, you will need to comply with the Town of Hampden Post Construction Storm Water Ordinance (available online).

FEES: Application fees are as stipulated in Section 2.12 of the Fees Ordinance, which include costs for public hearing notification. Note: Other fees may be incurred throughout the development process, including but not limited to: sewer connection or opening of a public way fees. Refer to the Fees Ordinance.

Application fee amount: \$1,600.00

Please note that this application must be submitted with plans in conformance with Article 300 of the Hampden Subdivision Ordinance. *Incomplete applications will delay processing. All fees must be paid for application to be processed.* All town ordinances are available at www.hampdenmaine.gov for review.

CERTIFICATION: By signing this form I certify that the information provided on these plans, text, and associated testimony is true and correct. I certify that all site improvements will be constructed in strict conformance with Planning Board approved plans. Furthermore, I acknowledge that if the constructed site improvements are not built in accordance with the Zoning and Subdivision Ordinances and Planning Board approved plans that I am obliged to take corrective action that may include obtaining a revised Planning Board approval or the removal of non-conforming uses, structures, or site improvements.

SIGNATURES:

Owner: Brandon J. Usher 8/13/2020
Date

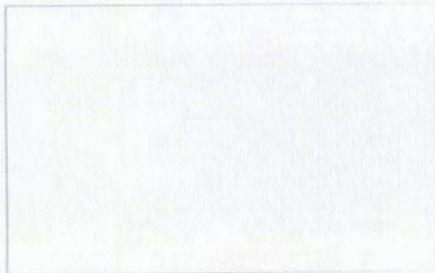
Applicant: _____ Date

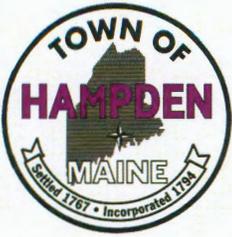
***** OFFICE USE ONLY *****

Application Fee: \$ _____ Date Paid: _____ Check #: _____

Draw Account Deposit: \$ _____

Meeting or Public Hearing Date: _____





Town of Hampden Land & Building Services

106 Western Ave.
Hampden, ME 04444
207-862-4500
www.hampdenmaine.gov
planner@hampdenmaine.gov

Application for Site Plan Review

Name of Applicant (primary contact): Nate Wicklow Jim Kiser (Agent)
Company: BNA Properties, LLC Kiser & Kiser Co.
Address: PO Box 345, Bangor, ME 04402 PO Box 282, Hampden, ME 04444
Phone: 862-4700 Cell: _____
Email Address: jim@kiser-kiser.com

Name of Owner: BNA Properties, LLC
Address: Same
Daytime phone: 249-9321

Check one (see Zoning Ordinance §4.1): Minor Revision Minor Site Plan Major Site Plan
Does the project require a: Conditional Use Approval: Yes No Variance: Yes No (Explain in narrative)
Check all that apply: DEP SLOD DEP NRPA DEP Stormwater DOT Driveway Permit DOT Traffic Permit

Location of Property: Lot C, BNA Monroe Property Subdivision
Assessor's Tax Map/Parcel Number: TM 2, Lot 24 Acreage: 11.49
Zoning district: Rural Is there Shoreland Zoning on the site? Yes No

Proposed use (check applicable category and write in specific use from Use Table, §3.1.3 of the Zoning Ordinance):
 Agricultural/Recreational Residential Educational Medical
 Utility/Government Institutional Commercial/Office Industrial

Specific use or uses (line item from Use Table): B-3, Multi-family

Square footage of new construction or addition: 26,930 sf
Number of units: 22

Applicant's signature: *Brandon J. Wallis*

Owner's signature : _____
(or proof that owner has given applicant all rights to submit the application)

Date of application submittal: _____ Fee \$1,200.00 Draw Acct \$1,400.00

Official Use Only

Application Fee: \$ _____	Date Paid: _____	Check #: _____
Draw Account Deposit: \$ _____	Date Paid: _____	Check #: _____
Draw Account Number: _____		
Date of Meeting or Public Hearing: _____		
Date of Decision: _____	Expiration Date: _____	

Date Received Stamp

Instructions and Additional Information

Meeting Schedule & Application Deadlines: The Planning Board meeting schedule is available at the Land & Development Services office in the Town Offices, 106 Western Ave, Hampden. It is also posted on the town's web site: hampdenmaine.gov, look under Town Officials, Town Boards and Committees, Planning Board. All conditional use applications require a public hearing.

Fee: Please refer to the Fees Ordinance, available online at hampdenmaine.gov, look under Ordinances and Policies. All major site plans will require payment of a deposit into an escrow (or "draw") account to be used for engineering review. Any funds left in the draw account after completion of the project will be returned to the applicant. Note that for major site plan applicants, you are responsible for paying the cost for the public hearing notification, which consists of an advertisement in the newspaper and a letter mailed to all abutters within 300 feet of the property. Staff will work with you on this cost after you submit the application, but the application fee and escrow deposit must be submitted with the application.

The **Zoning Ordinance** is available online at www.hampdenmaine.gov, look under Ordinances and Policies.

Section 4.1 of the Zoning Ordinance provides all the information you need on site plan applications. Section 4.1.5 lists the submission requirements and section 4.1.6 lists the approval standards. *It is your responsibility to provide sufficient information to the Planning Board to show that your application meets each of those standards listed.*

Multi-level review: Hampden has three different levels of site plan review, and which one applies to you depends on what you are doing. For details, please see section 4.1.3 of the Zoning Ordinance. In general, all new development requires major site plan review, entailing a public hearing with the Planning Board. Some types of expansions to a site can be processed with a minor site plan, which is reviewed and approved by a Staff Review Committee at a public meeting. Minor revisions to approved site plans can be approved by the Code Enforcement Officer.

Submission requirements: What you need to submit differs depending on what level of site plan review is applicable to your case: minor revision, minor site plan, or major site plan. Please refer to section 4.1.5 of the Zoning Ordinance for detailed information on what you need to submit.

Acronyms (for state permits):

DEP is the Department of Environmental Protection and DOT is the Department of Transportation

DEP SLOD - Site Location of Development, a.k.a the "Site Law"; M.R.S.A. Title 38, Chapter 3, §§481-490. This program regulates developments that may have a substantial impact on the environment, as provided in law. Examples: large subdivisions, structures, 20 acre plus developments, and metallic mineral mining operations.

DEP NRPA - Natural Resources Protection Act; M.R.S.A. Title 38, Chapter 3, §§480A-480Z. This program regulates activities in, on, over or adjacent to natural resources such as lakes, wetlands, streams/rivers, fragile mountain areas, and sand dune systems.

DEP Stormwater - "Chapter 500"; M.R.S.A. Title 38, Chapter 3, §420D (stormwater management) and §420C (erosion and sedimentation control). DEP's stormwater laws and regulations work toward protecting and restoring surface water and groundwater impacted by stormwater flows.

DOT Driveway Permit - Anyone installing a driveway or entrance, or changing the use of a property with an existing driveway along a state highway must get a permit from DOT. Please note that if this applies to you, the Town cannot approve your site plan application until after you receive the DOT driveway permit - please plan accordingly!

DOT Traffic Permit - Any project which generates 100 or more passenger car equivalent trips during peak hour of traffic generation, must file a Traffic Movement Permit application with the Department of Transportation.

Questions? Call the Land & Development Services office at 207-862-4500, or email danielle@hampdenmaine.gov.

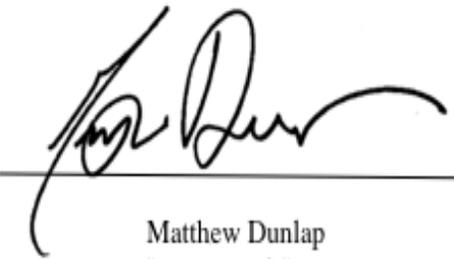
State of Maine



Department of the Secretary of State

I, the Secretary of State of Maine, certify that according to the provisions of the Constitution and Laws of the State of Maine, the Department of the Secretary of State is the legal custodian of the Great Seal of the State of Maine which is hereunto affixed and that the paper to which this is attached is a true copy from the records of this Department.

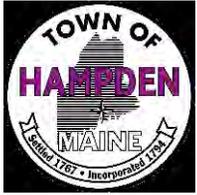
In testimony whereof, I have caused the Great Seal of the State of Maine to be hereunto affixed. Given under my hand at Augusta, Maine, this eleventh day of August 2020.



Matthew Dunlap
Secretary of State

Additional Addresses

Legal Name	Title	Name	Charter #	Status
BNA PROPERTIES, INC.	Clerk	NATE WICKLOW	20070458 D	GOOD STANDING
Home Office Address (of foreign entity)	Other Mailing Address		Address in Maine	
	27 ACORN DRIVE HAMPDEN, ME 04444			



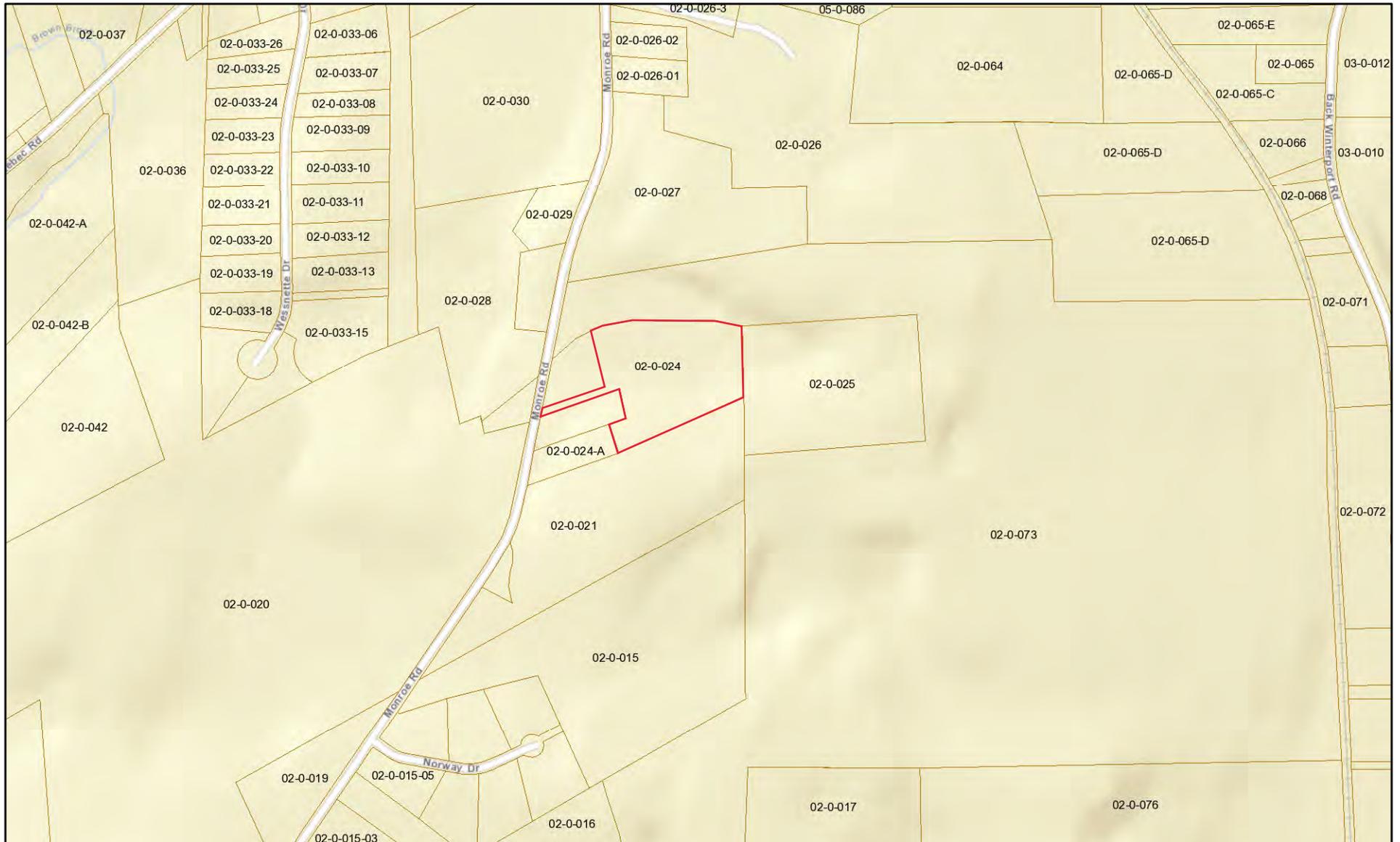
Pine Grove Location Map

Hampden, ME

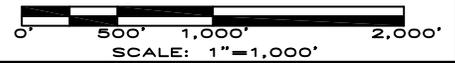
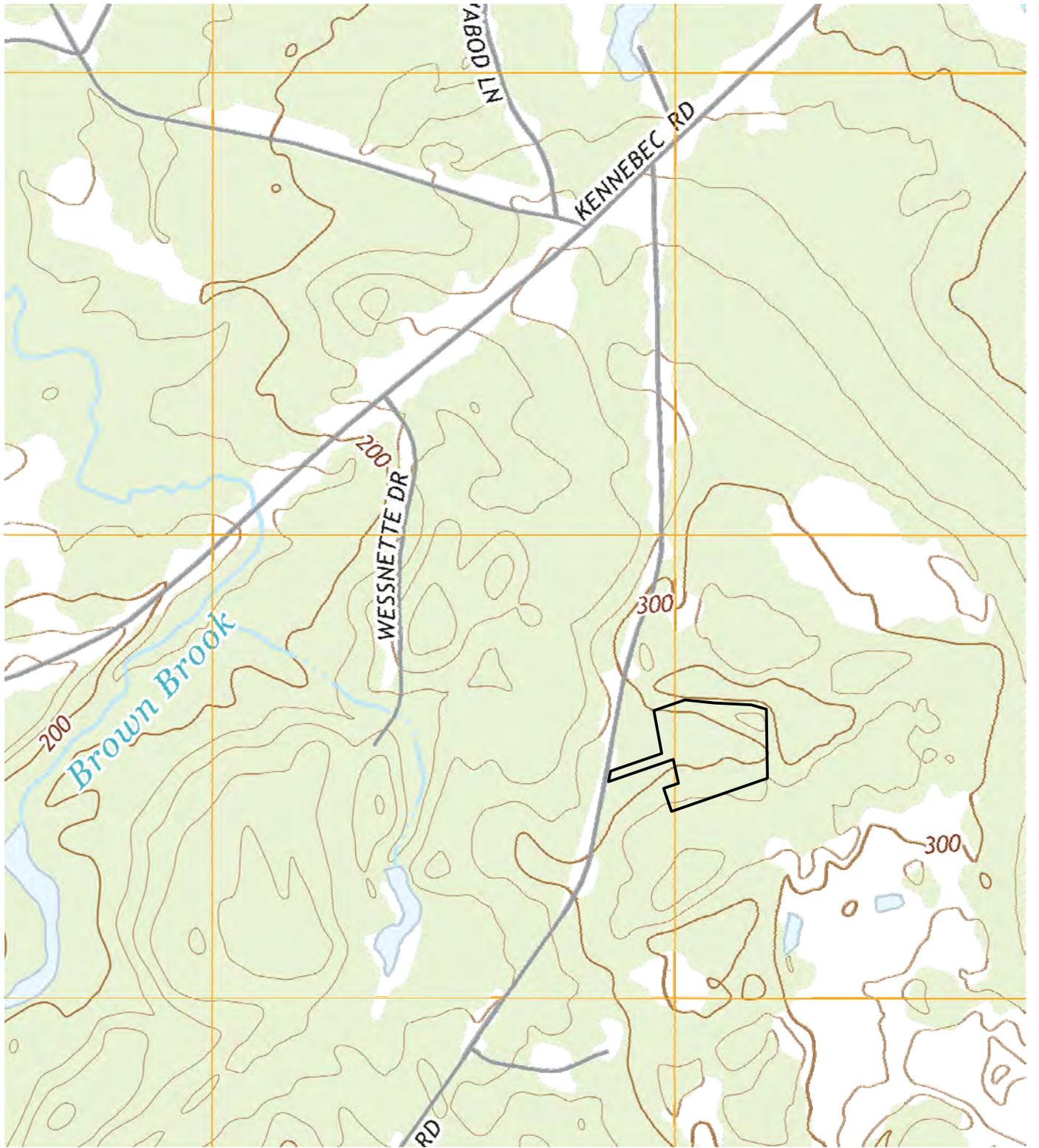
1 inch = 800 Feet



August 4, 2020



Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.



USGS MAAP: SNOWS MOUNTAIN
 PINE GROVE
 HAMPDEN, MAINE



FOR:
BNA PROPERTIES INC
 BANGOR, ME

11 AUG 20



ENGINEERING & DEVELOPMENT CONSULTING
 PO BOX 282, HAMPDEN, MAINE 04444
 207-862-4700



**AERIAL PHOTO: DRONE FLIGHT
PINE GROVE**

MONROE ROAD, HAMPDEN

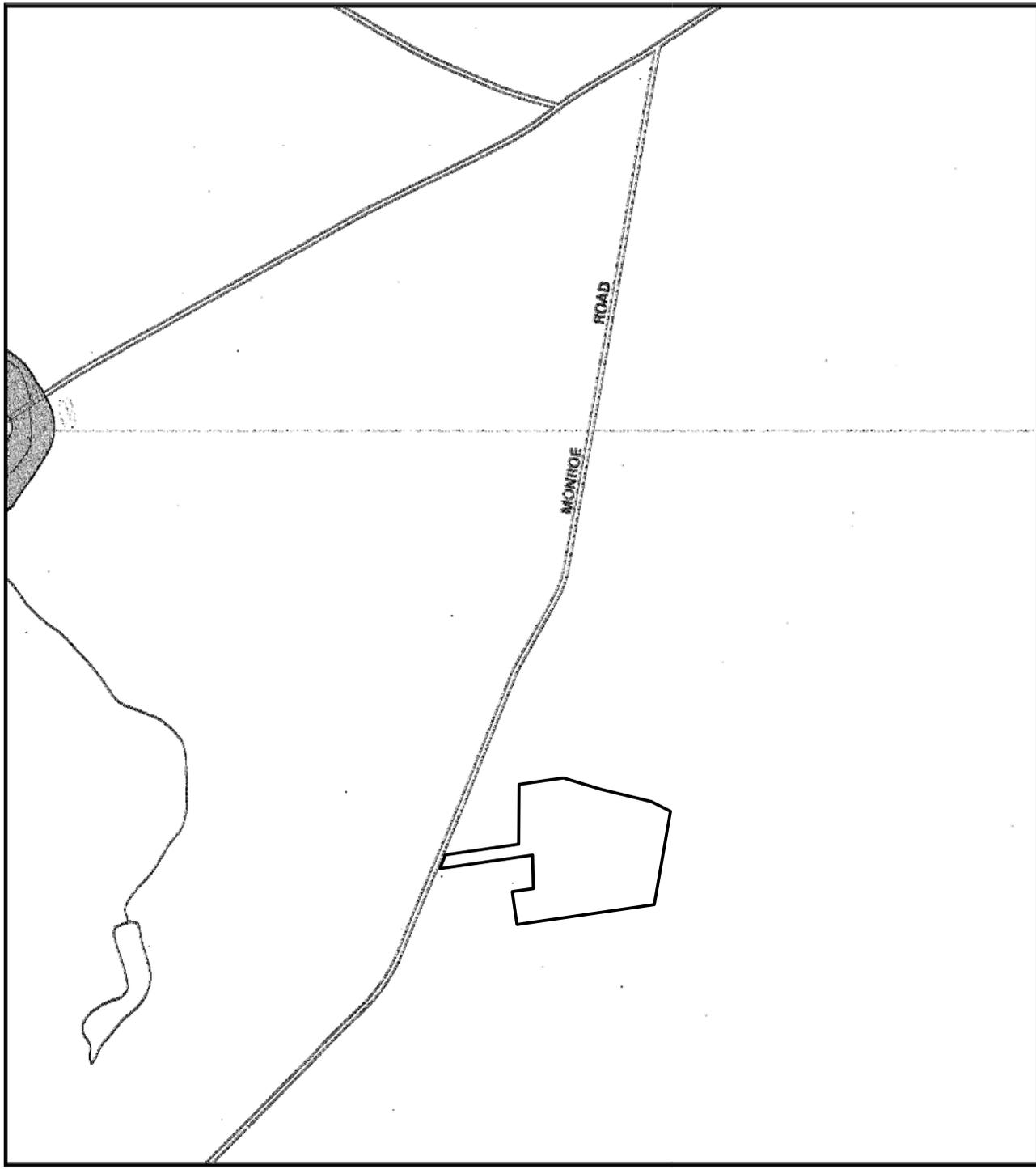
FOR:
BNA PROPERTIES INC
BANGOR, MAINE



11 AUG 20



ENGINEERING & DEVELOPMENT CONSULTING
PO BOX 282, HAMPDEN, MAINE 04444
207-862-4700



APPROXIMATE SCALE

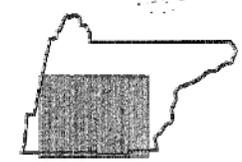


NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

TOWN OF
HAMPDEN,
MAINE
PENOBSCOT COUNTY

PANEL 20 OF 25
(SEE MAP INDEX FOR PANELS NOT PRINTED)



PANEL LOCATION

COMMUNITY-PANEL NUMBER
230168 0820 B

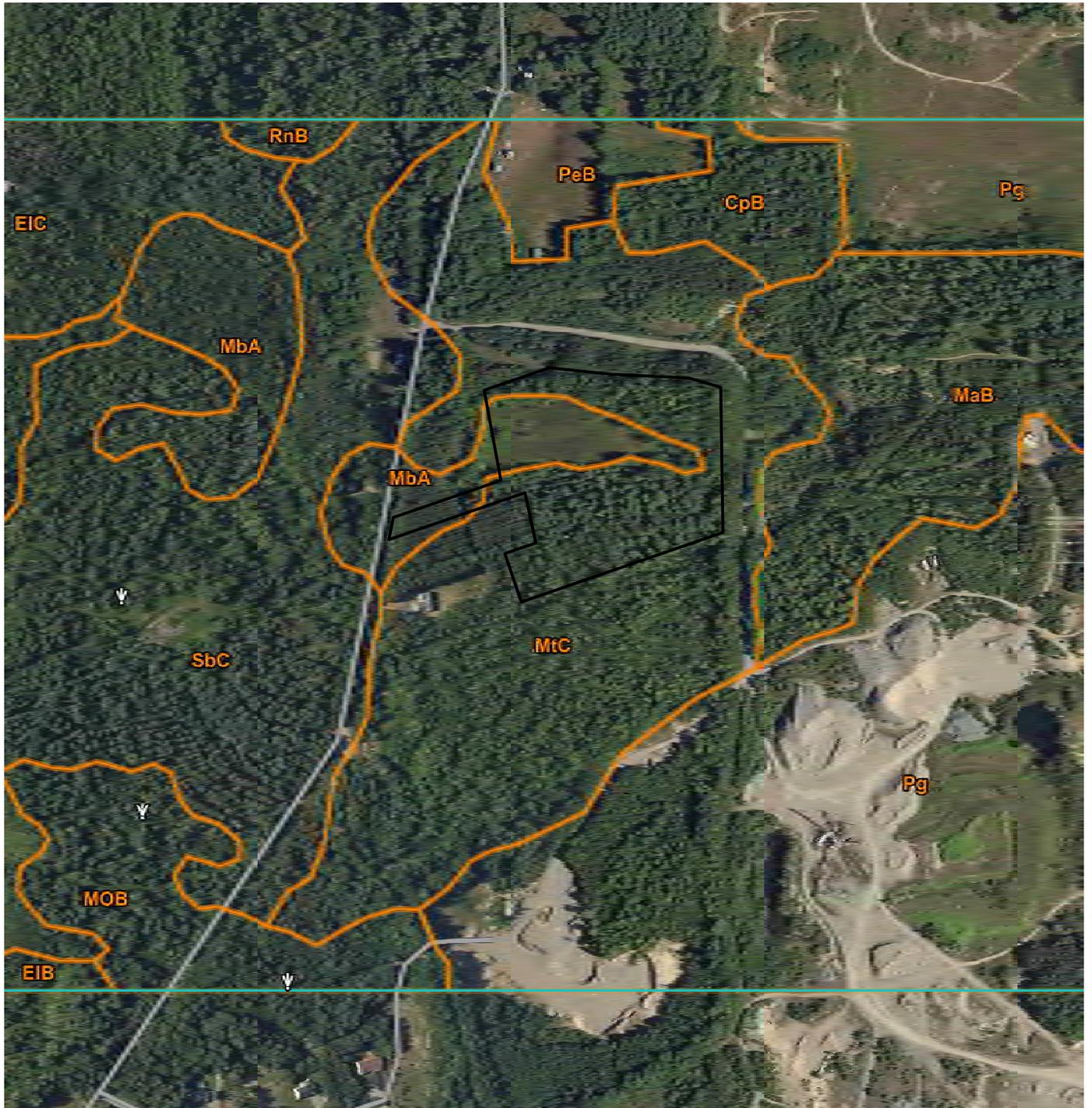
p20 EFFECTIVE DATE:
SEPTEMBER 4, 1987



230168

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.mec.fema.gov



SOIL LEGEND

- MbA MONARDA-BURNHAM COMPLEX; STONY SILT LOAM
- MtC MONADNOCK-TUNBRIDGE ASSN; GRAVELY FINE SAND



**SOILS MAP: MEDIUM INTENSITY
PINE GROVE**

MONROE ROAD, HAMPDEN



FOR:
BNA PROPERTIES INC.
BANGOR, ME

11 AUG 20



ENGINEERING & DEVELOPMENT CONSULTING
PO BOX 282, HAMPDEN, MAINE 04444
207-862-4700

Stormwater Management

Pine Grove Subdivision

Monroe Road, Hampden

Pine Grove Subdivision is a 22 dwelling unit, multi-family subdivision on 11.5± ac with access from Monroe Road. The project will build a private 1,400' access drive into the site to serve 5 fourplex buildings and 1 duplex building. The site contains a large wetland in the center of the site with the road looping around the wetland area. The access drive will provide a hammerhead turn at the end. The project will disturb approximately 5.6 ac and create 1.75 ac of impervious area.

This level of development will require a DEP permit under the Stormwater Law for the development of impervious area in excess of 1 ac and local approval for impervious area in excess of 20,000 sf. This project is not within the urban area of Hampden and thus is not subject to the Post Construction Stormwater Management Ordinance. This is not a Site Location project as the development is less than 3 ac of impervious area.

The project is requesting an exemption as a linear project under DEP Chapter 500, section C.5.c for the development of the roadway infrastructure including the access drive for the project and the access to units 1-8. Chapter 500 requires the project comply with the basic and general standards, which includes erosion control, inspections, maintenance, housekeeping and stormwater treatment. The basic standards are included in the erosion control plan and stormwater maintenance plan. Stormwater treatment is required for the impervious area and maintained landscaped areas. Treatment must achieve a 95% and 80% of impervious areas and total development, respectively. Under the linear project exemption, the access drive's treatment is reduced to 75% for impervious area and 50% for total developed area.

The project area drains entirely into the site's wetland area; however, due to soils significant infiltration occurs. Wastewater test pits indicate the site has significant SWWDR profiles 4 and 5 soils, which are high permeability profiles. The wetland area does not have a discharge from the site. This site is not in the watershed of a great pond or urban impaired stream.

Stormwater quality treatment will be provided by 2 grass filtration beds, road side buffer, an infiltration bed and roadside infiltration.

Based on the quality evaluation (data attached), the required treatment of the development is as follows:

Linear Access System	Imperv Area (sf)	Landscaped Area (sf)	Dev Area (sf)
Total Drives	35,495	40,455	75,950
Treated Drives	29,360	29,865	59,225
Total %	82.7	N/A	78.0
Development Area			
Total Development	40,200	92,990	133,190
Treated Development	38,350	84,610	122,960
Total %	95.4	N/A	92.3

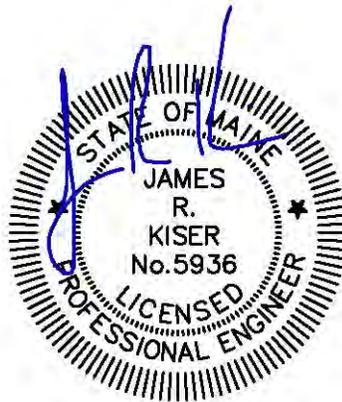
With the construction of the treatment areas, Pine Grove Subdivision will exceed the required treatment levels for the development and access exemptions. Therefore, Pine Grove complies with stormwater quality criteria of the General Standards.

In addition, this project has prepared a Stormwater Maintenance Plan for the care of the facility and development's stormwater mitigation features. The project will remain in private ownership and long-term management will be the responsibility of the developer.

Prepared by

James R. Kiser, PE
Kiser & Kiser Co

Enc.



Stromwater Treatment Worksheet

Pine Grove Estates

Monroe Road, Hampden

13-Aug-20

Linear Project	imper area	LS area	dev area
Development Road	35,495	40,455	75,950
Exempt wetland Xing	0	0	0
Linear Exemption	-8,874		-37,975 exemption 500.C.5.c
Required treat area	26,621		37,975 area to be treated

Development area	imper area	LS area	dev area
pavement areas	13,270	0	13,270
buildings	26,930	0	26,930
landscaped areas	0	92,990	92,990
Total area	40,200		133,190
Required Dev treat	38,190		106,552 General std 95% & 80%

Linear Development

Area	Treated Impervious	Treated Landscape	Treated Developed	Notes
1	5,990	8,530	14,520	35' roadside buffer
2	3,690	2,140	5,830	infiltration bed 1
3	3,020	2,370	5,390	infiltration bed 2
4	5,575	5,065	10,640	pond
5	6,030	4,185	10,215	pond
6	2,530	3,675	6,205	infiltration roadside
7	2,525	3,900	6,425	infiltration roadside
Sub total Linear	29,360	29,865	59,225	
Provided treatment	82.7%		78.0%	
Required Treatment	75%		50% exemption 500.C.5.c	

Development Area

Area	Treated Impervious	Treated Landscape	Treated Developed	Notes
A	9,505	18,225	27,730	filter bed 1
B	8,130	22,810	30,940	filter bed 2
C	20,715	43,575	64,290	filter bed 3
Sub total development	38,350	84,610	122,960	
Provided treatment	95.4%		92.3%	
Required Treatment	95%		80%	

Runoff Sizing

Area	Impervious	Pervious	Vol (cf)	Filter (sf)
filter 1	13,195	20,365	1,767	1,067
filter 2	11,150	25,180	1,756	1,061
infiltration 1	32,320	52,825	4,426	

filter bed 1

Elev	Area	Vol (CF)		
290	1120	0	1067 filter area	35'x32'
291	3740	2430		

Overflow (min)

290.82	3268	1799	1767 Required vol
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Drain time

FB-1	orifice (in)	area (sf)	ave head (ft)	C	
	0.625	0.0021	1.41	0.6	
	# orifices	flow (cfs)	total flow (cfs)	volume (cf)	Time (hr)
	1	0.0122	0.0122	1,799	41.0

filter bed 2

Elev	Area	Vol (CF)		
291	1100	0	1061 filter area	22'x50'
292	1740	1420		
293	2890	3735		

Overflow (min)

292.2	1970	1791	1756 Required vol
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Drain time

FB-2	orifice (in)	area (sf)	ave head (ft)	C	
	0.625	0.0021	1.85	0.6	
	# orifices	flow (cfs)	total flow (cfs)	volume (cf)	Time (hr)
	1	0.0140	0.0140	1,791	35.7

Infiltration area 1

Elev	Area	Vol (CF)
292	1925	0
293	2530	2228
294	3270	5128

Overflow (min)

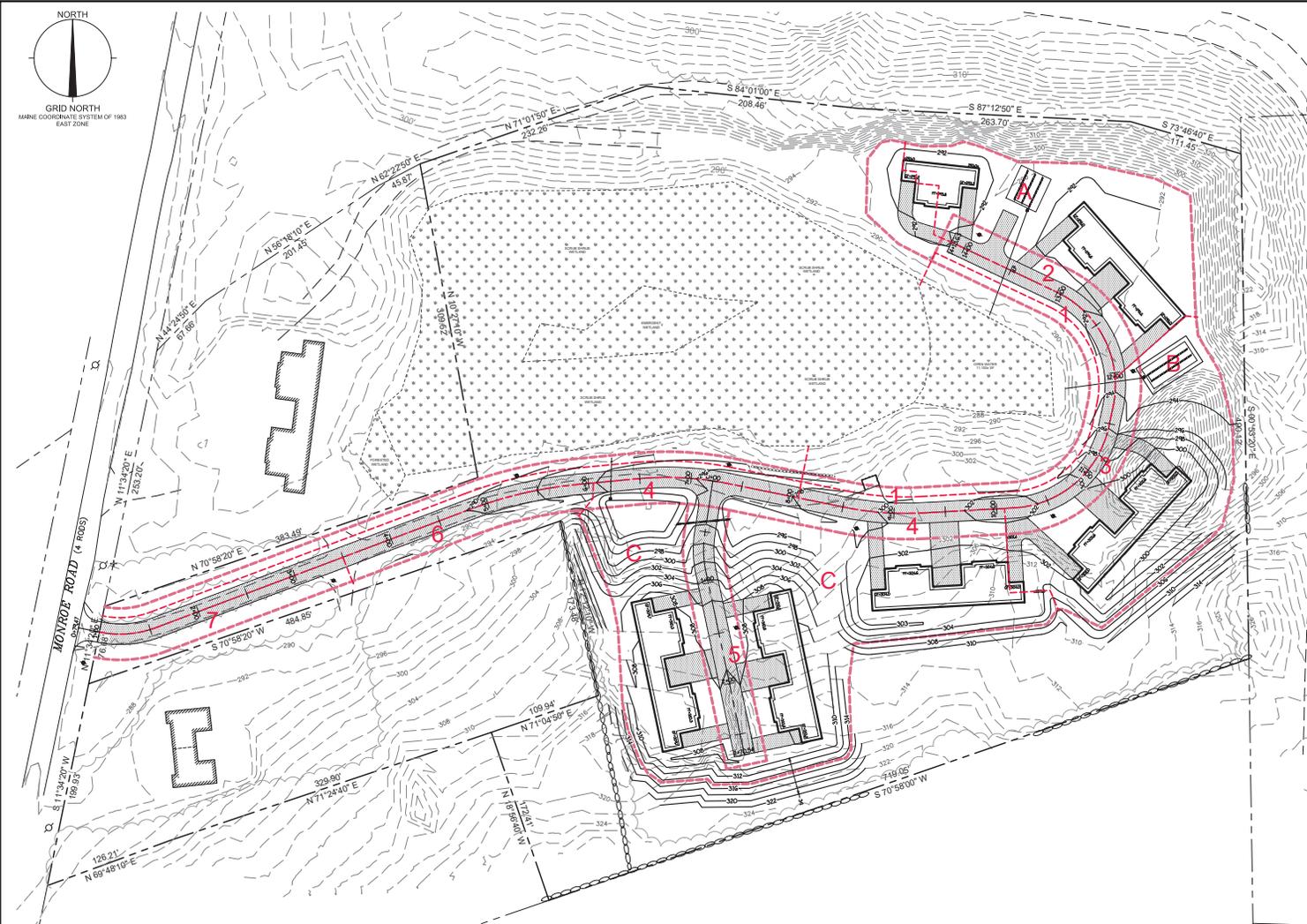
293.8	3122	4488	4426 Required vol
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Drain time

infil rate (in)	area (sf)	volume (cf)	Time (hr)
1.0	1925	4,426	27.6



GRID NORTH
MAINE COORDINATE SYSTEM OF 1983
EAST ZONE



LOCATION MAP
NTS

EXISTING	DESCRIPTION	PROPOSED
	PROPERTY ROW	
	SETBACK	
	BUILDING W/DOOR LOCATION (TYP)	
	WETLANDS	
	EDGE PAVEMENT	
	SEWER	
	UTILITY POLE	
	TREE LINE	
	SILT FENCE	

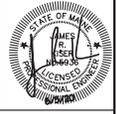
LEGEND
DEVELOPMENT BOUNDARY ---
DRAINAGE BOUNDARY - - - - -



REV.	DATE	BY	COMMENTS

DATE: 12 AUG 20 DESIGN BY: JRK SCALE: AS NOTED PROJ. NO: 723

STORMWATER QUALITY PLAN
PINE GROVE ESTATES
MONROE ROAD
HAMPTON, MAINE
APPLICANT:
BNA PROPERTIES LLC
PO BOX 345
BANGOR, ME 04402



KISER
KISER

ENGINEERING & DEVELOPMENT CONSULTING
PO BOX 280 HAMPTON MAINE 04444
207-864-1471

REDUCED

Maintenance Plan

Pine Grove Subdivision

Monroe Road, Hampden

The developer, BNA Properties LLC, and/or its successors will be responsible for the short-term and long-term maintenance of the stormwater management system at Pine Grove. The short-term maintenance is implemented by the erosion control plan which is part of the construction plans. The long-term maintenance of the project, roads, buildings, driveways, and landscaped areas within Pine Grove is to comply with this maintenance plan. This maintenance plan is in support of the Stormwater Management Plan prepared for this project which is part of the project's approval with the Town of Hampden and the Maine DEP under their Stormwater Law permit, both of which comply with the requirements of MDEP's Chapter 500.

Short-term maintenance is the direct responsibility of the contractor as directed by the erosion control measures shown on the construction plans for the facility. The developer will oversee the contractor's implementation of the erosion control measures through its stormwater inspector.

Long-term operations of the improvements including the stormwater system will remain with the developer.

The annual or semi-annual inspections and responsibilities are as follows:

- 1) Inspect the lawn areas, drainage swales, pipe outlets and basin inlets in the spring and fall to confirm all areas are stable. Any corrective action required because of erosion or debris collection shall be completed within 2 weeks following the inspection.
- 2) The Grass Filters shall be inspected after every storm for the first 6 months and then twice per year (spring & fall). Inspections are to include the following:
 - a) Inspect filter bed vegetation for grass health; reseed any failing areas, as necessary. If grass becomes stressed or dies due to wet conditions, reseeding with wetland grasses shall be required.
 - b) Inspect the integrity of the grass cover over the filter medium to ensure grass is healthy (not stressed due to wet conditions), not eroding, and is adequately protecting the soil filter material.
 - c) The bed and surrounding areas should be mowed on a regular basis unless wetland grasses are planted internal to the filter bed; then mowing of the filter area should occur 2-3 times per growing season. Mechanically remove unwanted vegetation and weeds throughout the growing season. No woody vegetation should be permitted to grow in the bed area or on the berms.

- d) Fertilizers shall be avoided except to ensure grass establishment & health.
 - e) Inspect the berm's side slopes to ensure the vegetation is stable, berm is not cracked or seeping water. Corrective action to be taken based on observation of issues.
 - f) Bed drainage should be confirmed at least once every year to ensure the beds drain after a significant rain fall ($\frac{3}{4}$ " or more). Bed should have no surface water 24 hours after storm events. When water is present for 72 hours the bed shall be revived by the replacement of the top several inches of the filter material and reseeded for grass cover protection.
 - g) The filter beds shall be monitored after storm events to evaluate the filtration rates for collected runoff. As these beds continue to be new treatment technology for the state, filtration rates may vary, and long-term monitoring may be necessary for proper functioning and treatment of stormwater. Long term viability of grass cover is important to nutrient uptake in the filter soil material.
- 3) The Infiltration Areas shall be inspected after every storm for the first 6 months and then twice per year (spring & fall) and following major storm events. Inspections are to include the following:
- a) Inspect the infiltration areas and surrounding slopes for erosion and sedimentation within the infiltration areas. Repair erosion sites and determine if cause of erosion should implement long term alterations to the area. If sediment is within the area, remove material and determine cause of sedimentation. If sediment is outside of normal seasonal maintenance, take corrective actions.
 - b) Basin and slopes 2' above basin floor may be maintained on a regular basis with mowing operations. Care should be taken to limit compaction of the basin floor and the accumulation of organic matter such as leaves and other debris.
 - c) Basin area should not be used for recreational areas.
 - d) Monitor infiltration rates of the areas to ensure the proper functioning of the permeable soils are providing proper draining of the area. The site should complete drain in 24 to 48 hours and if prolonged standing water is present (>48 hr) the surface of the area shall be aerated by plug aeration or scarification and revegetation.
- 4) Paved areas should be swept clean of sand and other winter debris in the spring of the year.
- 5) Areas outside of the water quality treatment boundary as shown on the stormwater management plan should be mowed no more than twice annually.

UNITS 1-4

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. of Health & Human Services
Div. Environmental Health, 11 SHS
(207) 287-2070 FAX (207) 287-4172

PROPERTY LOCATION		>> CAUTION: LPI APPROVAL REQUIRED <<	
City, Town, or Plantation	HAMPDEN	Town/City _____	Permit # _____
Street or Road	MONROE ROAD	Date Permit Issued ___/___/___	Fee \$ _____ Double Fee Charged ()
Subdivision, Lot #	PINE GROVE ESTATES	L.P.I. # _____	
OWNER/APPLICANT INFORMATION		Local Plumbing Inspector Signature _____	
Name (last, first, MI)	WICKLOW, NATE <input type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant	Fee: \$ _____ state min. fee \$ _____	Locally adopted fee _____
Mailing Address of <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant	BNA PROPERTIES LLC P.O. BOX 345 BANGOR, ME 04402	Copy: <input type="checkbox"/> Owner <input type="checkbox"/> Town <input type="checkbox"/> State	
Daytime Tel. # email address:	(207) 249-9321	The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with the application and the Maine Subsurface Wastewater Disposal Rules.	
OWNER OR APPLICANT STATEMENT		CAUTION: INSPECTION REQUIRED	
I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit.		I have inspected the installation authorized above and found it to be in compliance with Subsurface Wastewater Disposal Rules Application. _____	
Signature of Owner or Applicant _____ Date _____		Municipal Tax Map # _____ Lot # _____	
		(1st Date Approved)	
		Local Plumbing Inspector Signature _____ (2nd Date Approved)	

PERMIT INFORMATION		
TYPE OF APPLICATION <input checked="" type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type Replaced: _____ Year Installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <25% <input type="checkbox"/> b. Major Expansion ≥ 25% <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion SIZE OF PROPERTY _____ <input type="checkbox"/> sq. ft. _____ <input type="checkbox"/> acres SHORELAND ZONING <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	THIS APPLICATION REQUIRES <input checked="" type="checkbox"/> 1. No Rule Variance <input checked="" type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input checked="" type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input checked="" type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: _____ <input checked="" type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: (4) <input checked="" type="checkbox"/> 3. Other: (SPECIFY) 2 BEDROOMS Current Use: <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped	DISPOSAL SYSTEM COMPONENT(S) <input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous components _____ TYPE OF WATER SUPPLY <input checked="" type="checkbox"/> Proposed <input type="checkbox"/> Existing <input type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other: _____

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANKS <input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> c. with lift station <input type="checkbox"/> d. monolithic <input type="checkbox"/> e. two compartment <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY 3000* gallons	DISPOSAL FIELD TYPE & SIZE <input checked="" type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device _____ <input type="checkbox"/> a. Cluster Array <input type="checkbox"/> c. Linear <input type="checkbox"/> b. Regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE 1875 <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT <input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. Multi-compartment Tank <input type="checkbox"/> b. _____ Tanks in Series <input type="checkbox"/> c. Increase in Tank Capacity <input type="checkbox"/> d. Filter on Tank Outlet	DESIGN FLOW 720 gallons per day BASED ON <input checked="" type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities (4) 2 BEDROOM UNITS @ 180 GPD UNIT = 720
SOIL DATA & DESIGN CLASS PROFILE CONDITION 4, B at Observation Hole # TP1 Depth 2.40' OF MOST LIMITING SOIL FACTOR	DISPOSAL FIELD SIZING <input checked="" type="checkbox"/> 1. Medium - 2.6 sq. ft./gpd <input type="checkbox"/> 2. Medium-Large - 3.3 sq. ft./gpd <input type="checkbox"/> 3. Large - 4.1 sq. ft./gpd <input type="checkbox"/> 4. Extra Large - 5.0 sq. ft./gpd	EFFLUENT/EJECTOR PUMP <input checked="" type="checkbox"/> 1. Not Required (WITH PROPOSED SEPTIC TANK) <input type="checkbox"/> 2. May be Required <input type="checkbox"/> 3. Required Specify only for engineered systems DOSE: _____ gallons	<input type="checkbox"/> 3. Section 4G (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. 44° 53' 45" N Lon. 69° 53' 18" W if g.p.s., state margin of error: 20'

SITE EVALUATOR STATEMENT			
I certify that on 7/29/2020 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10/144A CMR 241).			
Site Evaluator Signature STEPHEN H. HOWELL	213 SE# (207) 825 - 4792	Date 8/05/2020 showellsolutions@gmail.com	Date 8/17/2020
Site Evaluator Name Printed	Telephone Number	E-mail Address	Page 1 of 3

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.
*** (2) 1500 GALLON SEPTIC TANKS**

UNITS 1-4

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Health & Human Services
Division of Environmental Health
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

HAMPDEN

MONROE ROAD
PINE GROVE ESTATES

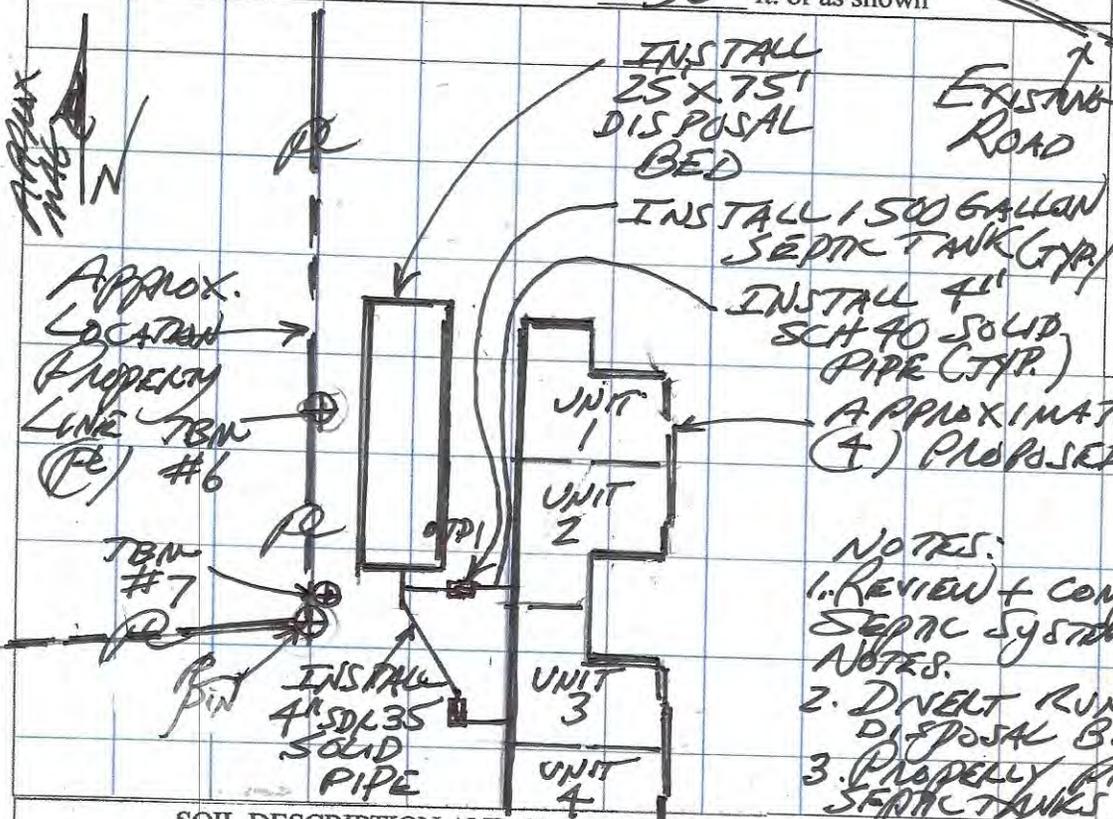
Owner's Name

BNA PROPERTIES, LLC

SITE PLAN

Scale 1" = 50 ft. or as shown

SITE LOCATION PLAN
(map from Maine Atlas recommended)



SEE ATTACHED COPY OF SITE PLAN

- NOTES:
1. REVIEW + COMPLY WITH ATTACHED SEPTIC SYSTEM USE & CONSTRUCTION NOTES.
 2. DIVERT RUNOFF AWAY FROM DISPOSAL BED.
 3. PROPERLY PROTECT PIPES + SEPTIC TANKS FROM FREEZES + CAUSING.

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above) CAUSING.

Observation Hole TPL X Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	SOIL		BROWN	NAVE
0	F.S. LOAM			
10	COBBLY SANDY LOAM	FLUVE	LIGHT YELLOWISH BROWN	
20	GRAVELLY LOAMY SAND		LIGHT OLIVE BROWN	
30	BOULDER LOAMY SAND		OLIVE BROWN	
50	LIMIT OF ORSEN = 194			

Observation Hole Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0				
10				
20				
30				
40				
50				

Soil Classification 4 B	Slope 1-8%	Limiting Factor 740'	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/> Pit Depth
Profile	Condition		

Soil Classification	Slope	Limiting Factor	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
Profile	Condition		

Site Evaluator Signature

#213

8/05/2020

8/17/2020

UNITS 1-4



Department of Health and Human Services
Maine Center for Disease Control and Prevention
286 Water Street
11 State House Station
Augusta, Maine 04333-0011
Tel: (207) 287-5672
Fax: (207) 287-4172; TTY: 1-800-606-0215

SUBSURFACE WASTEWATER DISPOSAL SYSTEM VARIANCE REQUEST

This form must accompany an application (HHE-200 Form) for any subsurface wastewater disposal system which requires a variance to provisions of the Subsurface Wastewater Disposal Rules. The Local Plumbing Inspector must not issue a permit for the installation of a subsurface wastewater disposal system requiring a variance from the Department of Health and Human Services until approval has been received from the Department.

GENERAL INFORMATION
Town of HANDDEN
Property Owner's Name: NATE WICKLOW/BNA PROPERTIES Tel. No.: (207) 249-9321
System's Location: PINE GROVE ESTATES, MANOR ROAD
Property Owner's Address: BNA PROPERTIES, LLC, Zip Code 04402
e-mail address: P.O. BOX 375, BANGOR, ME

The subsurface wastewater disposal system design for the subject property requires a [] replacement system variance [X] first time system variance to the Subsurface Wastewater Disposal Rules. This variance requires [] local approval [X] local and state approval.

SPECIFIC VARIANCE REQUESTED (To be filled in by Site Evaluator. Use additional sheets if needed.)
1. 60' TO STORMWATER INFILTRATION BASIN TO DISPOSAL BED
SECTION OF RULE TABLE 7B

SITE EVALUATOR
When a property is found to be unsuitable for subsurface wastewater disposal by a licensed Site Evaluator, the Evaluator shall so inform the property owner. If the property owner, after exploring all other alternatives, wishes to request a variance to the Rules, and the Evaluator in his professional opinion feels the variance request is justified and the site limitations can be overcome, he shall document the soil and site conditions on the Application. The Evaluator shall list the specific variances necessary plus describe below the proposed system design and function. The Evaluator shall further describe how the specific site limitations are to be overcome, and provide any other support documentation as required prior to consideration by the Department. Attach a separate sheet if necessary.
THE PROPOSED DISPOSAL BED IS > 6' IN ELEVATION ABOVE ELEV. OF INF. BASIN + NO OTHER FEASIBLE LOCATION FOR SEPTIC
I, STEPHEN H. HOWELL, S.E., certify that a variance to the Rules is necessary since a system cannot be installed which will completely satisfy all the Rule requirements. In my judgment, the proposed system design on the attached Application is the best alternative available; enhances the potential of the site for subsurface wastewater disposal; and that the system should function properly.
SIGNATURE OF SITE EVALUATOR #213 DATE 8/17/2020

PROPERTY OWNER
I, _____, am the [] owner [] agent for the owner of the subject property. I understand that the installation on the Application is not in total compliance with the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.
[] SIGNATURE OF OWNER [] AGENT FOR THE OWNER
DATE

LOCAL PLUMBING INSPECTOR - Approval at local level

The local plumbing inspector shall review all variance requests prior to rendering a decision.
 I, _____, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (does does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (do do not) approve the requested variance. I (will will not) issue a permit for the system's installation as proposed by the application.

LPI Signature

Date

LOCAL PLUMBING INSPECTOR - Referral to the Department

The local plumbing inspector shall review all variance requests prior to forwarding to the Division of Environmental Health.
 I, _____, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (does does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (do do not) recommend the issuance of a permit for the system's installation as proposed by the application.

LPI Signature

Date

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and (does does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

SIGNATURE OF THE DEPARTMENT

DATE

- Notes: 1. Variances for soil conditions may be approved at the local level as long as the total point assessment is at least the minimum allowed. (See Section 7.B.4 of the Subsurface Wastewater Disposal Rules for Municipal Review.)
 2. Variances for other than soil conditions or soil conditions beyond the limit of the LPI's authority are to be submitted to the Department for review. (See Section 7.B.3 for Department Review.) The LPI's signature is required on these variance requests prior to sending them to the Department.

SOIL, SITE AND ENGINEERING FACTORS FOR FIRST TIME SYSTEM VARIANCE ASSESSMENT WITH LIMITING SOIL DRAINAGE CONDITIONS (SEE TABLES 7C THROUGH 7M).

Soil Profile	CHARACTERISTIC	POINT ASSESSMENT
Depth to Groundwater/Restrictive Layer	NA	NA
Terrain		
Size of Property		
Waterbody Setback		
Water Supply		
Type of Development		
Disposal Area Adjustment		
Vertical Separation Distance		
Additional Treatment		
TOTAL POINT ASSESSMENT:		

Minimum Points (Check One): Outside Shoreland Zone-50 Inside Shoreland Zone-65 Subdivision-65

UNITS 5-8

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Maine Dept. of Health & Human Services
Div. Environmental Health, 11 SHS
(207) 287-2070 FAX (207) 287-4172

PROPERTY LOCATION		>> CAUTION: LPI APPROVAL REQUIRED <<	
City, Town, or Plantation	HAMPDEN	Town/City	Permit # _____
Street or Road	MONROE ROAD	Date Permit Issued	Fee \$ _____ Double Fee Charged ()
Subdivision, Lot #	PINE GROVE ESTATES		L.P.I. # _____
OWNER/APPLICANT INFORMATION		Local Plumbing Inspector Signature	
Name (last, first, MI)	WICKLOW, NATE <input type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant	Fee: \$ _____ state min. fee \$ _____	Locally adopted fee
Mailing Address of	BNA PROPERTIES LLC	The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with the application and the Maine Subsurface Wastewater Disposal Rules.	
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant	P.O. BOX 345	Copy: <input type="checkbox"/> Owner <input type="checkbox"/> Town <input type="checkbox"/> State	
Daytime Tel. #	(207) 249-9321	Municipal Tax Map # _____	Lot # _____
email address:			
OWNER OR APPLICANT STATEMENT		CAUTION: INSPECTION REQUIRED	
I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit.		I have inspected the installation authorized above and found it to be in compliance with Subsurface Wastewater Disposal Rules Application.	
Signature of Owner or Applicant _____ Date _____		Local Plumbing Inspector Signature _____ (1st Date Approved) _____ (2nd Date Approved) _____	

PERMIT INFORMATION		
TYPE OF APPLICATION <input checked="" type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type Replaced: _____ Year Installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <25% <input type="checkbox"/> b. Major Expansion ≥ 25% <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	THIS APPLICATION REQUIRES <input checked="" type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input checked="" type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	DISPOSAL SYSTEM COMPONENT(S) <input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous components
SIZE OF PROPERTY _____ sq. ft. <input type="checkbox"/> _____ acres <input type="checkbox"/>	DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: _____ <input checked="" type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: (4) <input type="checkbox"/> 3. Other: (SPECIFY) 2 BEDROOMS	TYPE OF WATER SUPPLY <input checked="" type="checkbox"/> Proposed <input type="checkbox"/> Existing <input checked="" type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other: _____
SHORELAND ZONING <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Current Use: <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped	

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

(2) TREATMENT TANKS <input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> c. with lift station <input type="checkbox"/> d. monolithic <input type="checkbox"/> e. two compartment <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY 3000* gallons	DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input checked="" type="checkbox"/> 3. Proprietary Device QUICK <input type="checkbox"/> a. Cluster Array <input type="checkbox"/> c. Linear <input checked="" type="checkbox"/> b. Regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE 1920 sq. ft. <input type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT <input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. Multi-compartment Tank <input type="checkbox"/> b. _____ Tanks in Series <input type="checkbox"/> c. Increase in Tank Capacity <input type="checkbox"/> d. Filter on Tank Outlet	DESIGN FLOW 720 gallons per day BASED ON <input checked="" type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS FOR other facilities (4) 2 BEDROOM UNITS @ 180 GPD / UNIT = 720
SOIL DATA & DESIGN CLASS PROFILE CONDITION 4, B at Observation Hole # 7PI Depth 24" OF MOST LIMITING SOIL FACTOR	DISPOSAL FIELD SIZING <input checked="" type="checkbox"/> 1. Medium -- 2.6 sq. ft./gpd <input type="checkbox"/> 2. Medium-Large -- 3.3 sq. ft./gpd <input type="checkbox"/> 3. Large -- 4.1 sq. ft./gpd <input type="checkbox"/> 4. Extra Large -- 5.0 sq. ft./gpd	EFFLUENT/EJECTOR PUMP <input checked="" type="checkbox"/> 1. Not Required (WITH MODEL SEPTIC TANK) <input type="checkbox"/> 2. May be Required <input type="checkbox"/> 3. Required Specify only for engineered systems DOSE: _____ gallons	LATITUDE AND LONGITUDE ATTACH WATER METER DATA at center of disposal area Lat. 44° 53' 14" N Lon. 70° 53' 14" W if g.p.s., state margin of error 20'

SITE EVALUATOR STATEMENT

I certify that on **7/29/2020** (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Site Evaluator Signature STEPHEN H. HOWELL	213 SE# (207) 825 - 4792	Date 8/05/2020 showellsolutions@gmail.com
--	--------------------------------	--

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Health & Human Services
 Division of Environmental Health
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation
HAMPDEN

Street, Road, Subdivision
**MANROE ROAD
 PINE GROVE ESTATES**

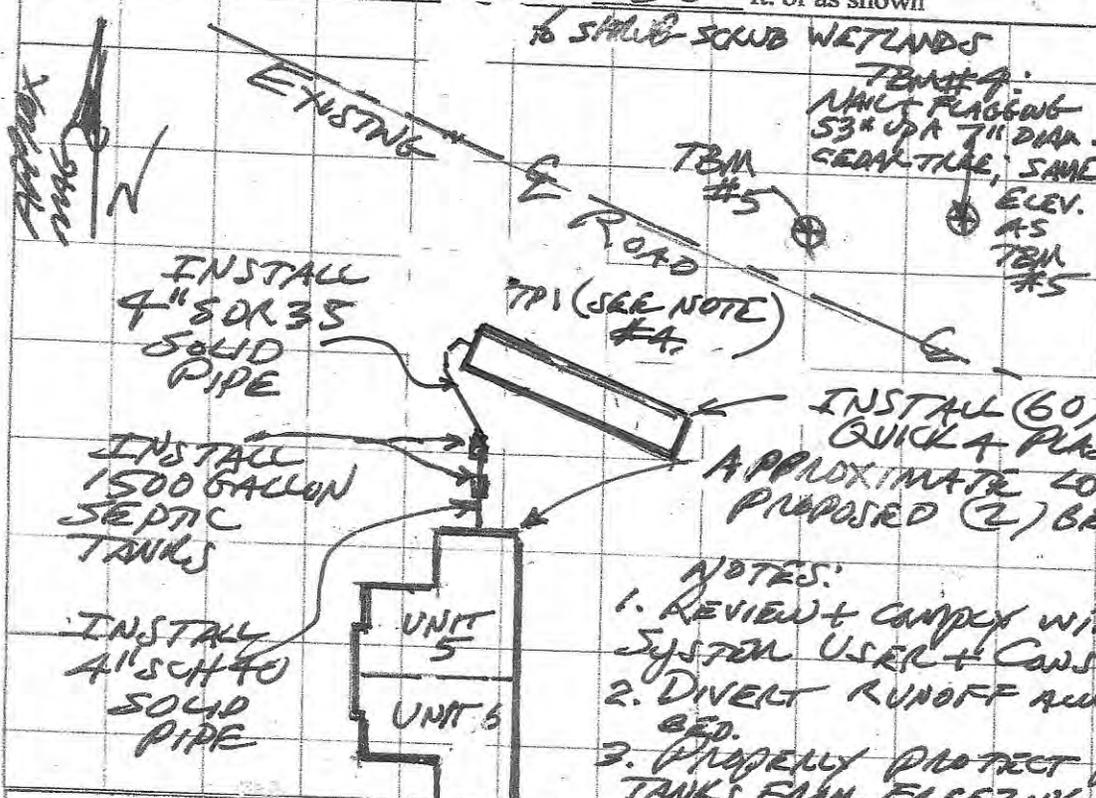
Owner's Name
BNA PROPERTIES, LLC

SITE PLAN

Scale 1" = 50 ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas recommended)

SEE ATTACHED COPY OF SITE PLAN



- NOTES:**
1. REVIEW + COMPLY WITH ATTACHED SEPTIC SYSTEM USER + CONSTRUCTION NOTES.
 2. DIVERT RUNOFF AWAY FROM DISPOSAL BED.
 3. PROPERLY PROTECT PIPES + SEPTIC TANKS FROM FREEZING + CRUSHING.

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole TPI Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

Observation Hole _____ Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
LOAM	FRANK BROWN		NONE
SILT LOAM		OLIVE BROWN	
COBBLE LOAMY SAND		OLIVE BROWN	
LIMIT OF OBSERV = 18"			

Texture	Consistency	Color	Mottling
NOTES (CONT.)			
4. ALTHOUGH TPI IS SLIGHTLY OUTSIDE THE FOOTPRINT OF PROPOSED DISPOSAL FIELD IT REVEALS SPOTS SOIL CONDITIONS IN THE FIELD EXCEPT FOR 1' TO 2' HOLE OF RECENT FILL ON SURFACE. TPI IS WHERE TP COULD BE DESCRIBED WITHOUT REMOVING RECENT FILL. SOIL WILL BE VERIFIED ONCE ALL OF FILL IS			

Soil Classification 4 B	Slope 18%	Limiting Factor 798"	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/> Pit Depth
Profile	Condition		

Soil Classification	Slope	Limiting Factor	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
Profile	Condition	%	

BASED ON NATIVE SOIL NOT FILL

Site Evaluator Signature

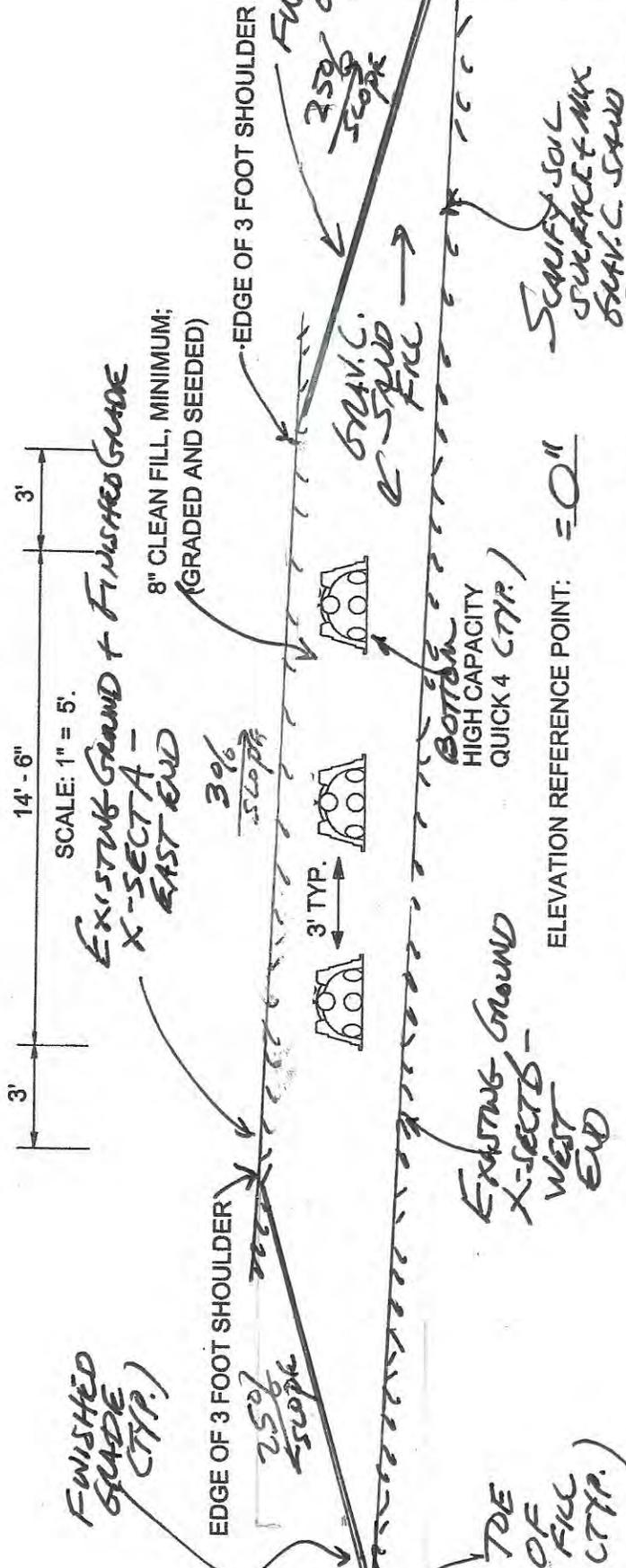
#213 SE #

8/05/2020 Date

8/17/2020
 Page 2 of 3
 HHE-200 Rev. 02/11

UN 175 58

QUICK 4 PLASTIC CHAMBER CROSS SECTION



ELEVATION REFERENCE POINT: = 0"

FINISHED GRADE:
 TOP OF PLASTIC CHAMBERS: -53"
 BOTTOM OF PLASTIC CHAMBERS: -65"
 -81"

NOTES:

1. REMOVE THE VEGETATION AND SCARIFY THE AREA BENEATH SYSTEM AND FILL EXTENSIONS.
2. INSTALL COARSE SAND TO GRAVELLY COARSE SAND IN 8" LIFTS AND COMPACT USING A SMALL DOZER.
3. KEEP THE BOTTOM OF THE PLASTIC CHAMBERS LEVEL.
4. THE TOP 4" OF THE CLEAN FILL WILL CONSIST OF SOIL AMENDMENT MIX, SUITABLE FOR ESTABLISHMENT OF A VEGETATIVE COVER. THIS WILL BE PLACED OVER THE SYSTEM INCLUDING FILL EXTENSIONS.
5. PROTECT ALL PIPING FROM FROST.

OWNER: BNA Properties, LLC
 LOCATION: Manroe Road, Hampden Pine Grove Estate

SITE EVALUATOR: 
 S.E.#: # 213
 DATE: 8/17/2020

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Health & Human Services
 Division of Environmental Health
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

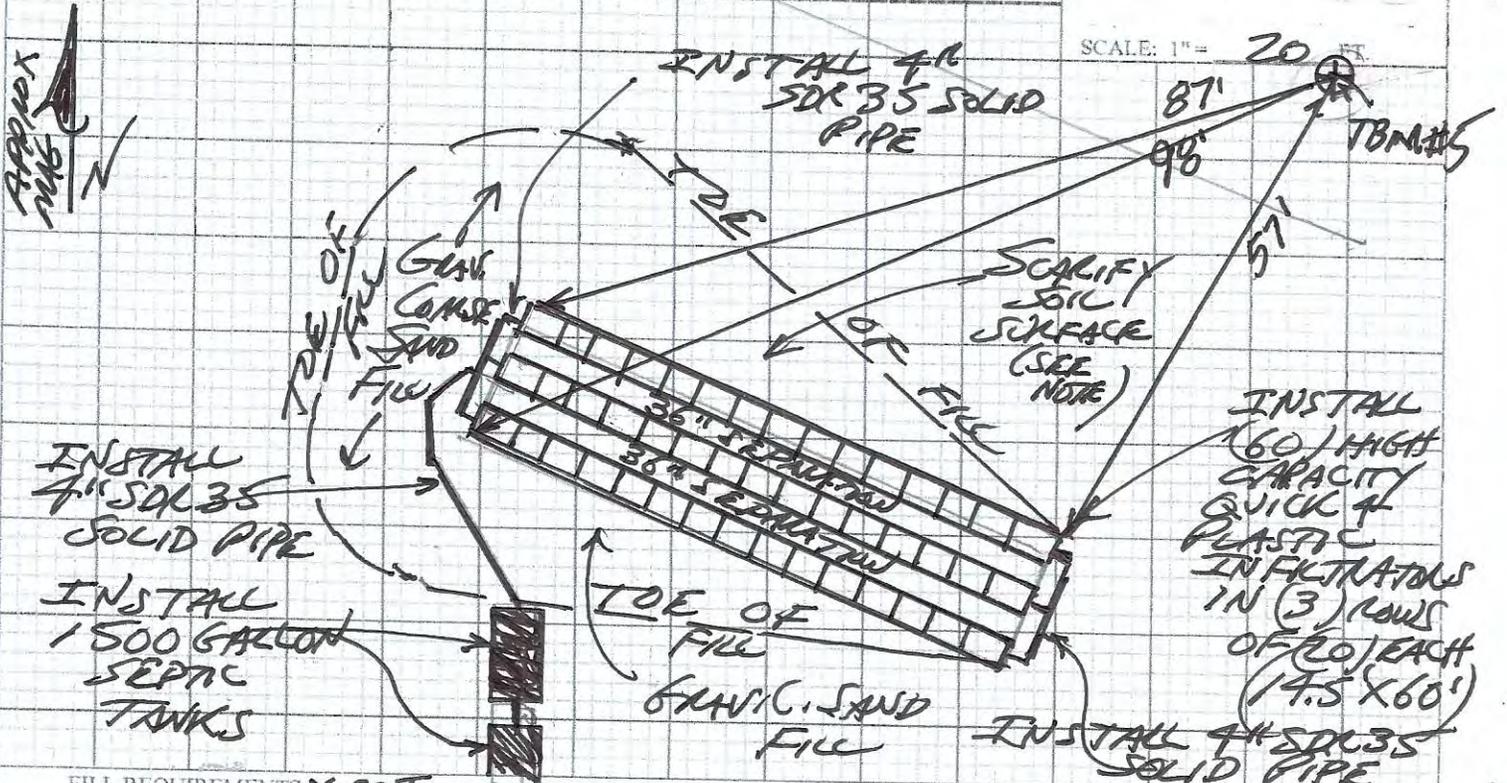
HAMPDEN

MONROE ROAD
 PINE GROVE ESTATES

BNA PROPERTIES LLC

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20' FT



FILL REQUIREMENTS

Depth of Fill (Upslope)

4" SET
 0' 48"

Finished Grade Elevation

Depth of Fill (Downslope)

6" 57"

Top of Distribution Pipe or Proprietary Device

Bottom of Disposal Area

CONSTRUCTION ELEVATIONS

-53"

ELEVATION REFERENCE POINT (TRIMMS)
 Location & Description: NAIL FLAG

-65"

71" UP A 38" DIAM. WHITE PINE

-81"

Reference Elevation: 0" TREE

DISPOSAL AREA CROSS SECTION

Scale

Horizontal 1" = ___ ft.

Vertical 1" = ___ ft.

SEE ATTACHED
 QUICK & PLASTIC
 CHAMBER CROSS
 SECTION

[Signature]

Site Evaluator Signature

#213

SE #

8/17/2020

Date

UNITS #5-8



Department of Health and Human Services
Maine Center for Disease Control and Prevention
286 Water Street
11 State House Station
Augusta, Maine 04333-0011
Tel: (207) 287-5672
Fax: (207) 287-4172; TTY: 1-800-606-0215

SUBSURFACE WASTEWATER DISPOSAL SYSTEM VARIANCE REQUEST

This form must accompany an application (HHE-200 Form) for any subsurface wastewater disposal system which requires a variance to provisions of the Subsurface Wastewater Disposal Rules. The Local Plumbing Inspector must not issue a permit for the installation of a subsurface wastewater disposal system requiring a variance from the Department of Health and Human Services until approval has been received from the Department.

GENERAL INFORMATION
Town of HANDDEN
Property Owner's Name: NATE WICKLOW/BNA PROPERTIES
Tel. No.: (207) 249-9321
System's Location: PINE GROVE ESTATES, MONROE ROAD
Property Owner's Address: BNA PROPERTIES, LLC, P.O. BOX 375, BANGOR, ME
Zip Code: 04402
e-mail address:

The subsurface wastewater disposal system design for the subject property requires a replacement system variance first time system variance to the Subsurface Wastewater Disposal Rules. This variance requires local approval local and state approval.

SPECIFIC VARIANCE REQUESTED (To be filled in by Site Evaluator. Use additional sheets if needed.)
1. 90' TO STORMWATER INFILTRATION BASIN TO DISPOSAL BED
SECTION OF RULE TABLE 7B

SITE EVALUATOR
When a property is found to be unsuitable for subsurface wastewater disposal by a licensed Site Evaluator, the Evaluator shall so inform the property owner. If the property owner, after exploring all other alternatives, wishes to request a variance to the Rules, and the Evaluator in his professional opinion feels the variance request is justified and the site limitations can be overcome, he shall document the soil and site conditions on the Application. The Evaluator shall list the specific variances necessary plus describe below the proposed system design and function. The Evaluator shall further describe how the specific site limitations are to be overcome, and provide any other support documentation as required prior to consideration by the Department. Attach a separate sheet if necessary.
THE PROPOSED DISPOSAL BED IS > 6' IN ELEVATION ABOVE ELEV. OF INF. BASIN + NO OTHER FEASIBLE LOCATION FOR SEPTIC
STEPHEN H. HOWELL, S.E., certify that a variance to the Rules is necessary since a system cannot be installed which will completely satisfy all the Rule requirements. In my judgment, the proposed system design on the attached Application is the best alternative available; enhances the potential of the site for subsurface wastewater disposal; and that the system should function properly.
SIGNATURE OF SITE EVALUATOR #213 DATE 8/17/2020

PROPERTY OWNER
I, am the owner agent for the owner of the subject property. I understand that the installation on the Application is not in total compliance with the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.
SIGNATURE OF OWNER DATE
AGENT FOR THE OWNER

LOCAL PLUMBING INSPECTOR - Approval at local level

The local plumbing inspector shall review all variance requests prior to rendering a decision.
 I, _____, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (does does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (do do not) approve the requested variance. I (will will not) issue a permit for the system's installation as proposed by the application.

LPI Signature

Date

LOCAL PLUMBING INSPECTOR - Referral to the Department

The local plumbing inspector shall review all variance requests prior to forwarding to the Division of Environmental Health.
 I, _____, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (does does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (do do not) recommend the issuance of a permit for the system's installation as proposed by the application.

LPI Signature

Date

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and (does does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

SIGNATURE OF THE DEPARTMENT

DATE

- Notes: 1. Variances for soil conditions may be approved at the local level as long as the total point assessment is at least the minimum allowed. (See Section 7.B.4 of the Subsurface Wastewater Disposal Rules for Municipal Review.)
 2. Variances for other than soil conditions or soil conditions beyond the limit of the LPI's authority are to be submitted to the Department for review. (See Section 7.B.3 for Department Review.) The LPI's signature is required on these variance requests prior to sending them to the Department.

SOIL, SITE AND ENGINEERING FACTORS FOR FIRST TIME SYSTEM VARIANCE ASSESSMENT WITH LIMITING SOIL DRAINAGE CONDITIONS (SEE TABLES 7C THROUGH 7M).

Soil Profile	CHARACTERISTIC	POINT ASSESSMENT
Depth to Groundwater/Restrictive Layer	NA	NA
Terrain		
Size of Property		
Waterbody Setback		
Water Supply		
Type of Development		
Disposal Area Adjustment		
Vertical Separation Distance		
Additional Treatment		
TOTAL POINT ASSESSMENT:		

Minimum Points (Check One): Outside Shoreland Zone-50 Inside Shoreland Zone-65 Subdivision-65

UNITS 9-12

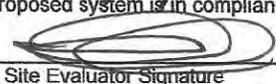
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. of Health & Human Services
Div. Environmental Health, 11 SHS
(207) 287-2070 FAX (207) 287-4172

PROPERTY LOCATION		>> CAUTION: LPI APPROVAL REQUIRED <<	
City, Town, or Plantation	HAMPDEN	Town/City _____	Permit # _____
Street or Road	MONROE ROAD	Date Permit Issued ___/___/___	Fee \$ _____ Double Fee Charged ()
Subdivision, Lot #	PINE GROVE ESTATES	L.P.I. # _____	
OWNER/APPLICANT INFORMATION		Local Plumbing Inspector Signature	
Name (last, first, MI)	WICKLOW, NATE	Fee: \$ _____ state min. fee \$ _____	Locally adopted fee
	<input type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant	Copy: <input type="checkbox"/> Owner <input type="checkbox"/> Town <input type="checkbox"/> State	
Mailing Address of	BNA PROPERTIES LLC	The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with the application and the Maine Subsurface Wastewater Disposal Rules.	
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant	P.O. BOX 345 BANGOR, ME 04402		
Daytime Tel. #	(207) 249-9321	Municipal Tax Map # _____ Lot # _____	
email address:			
OWNER OR APPLICANT STATEMENT		CAUTION: INSPECTION REQUIRED	
I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit.		I have inspected the installation authorized above and found it to be in compliance with Subsurface Wastewater Disposal Rules Application. _____	
Signature of Owner or Applicant _____ Date _____		Local Plumbing Inspector Signature _____ (1st Date Approved) _____ (2nd Date Approved) _____	

PERMIT INFORMATION		
TYPE OF APPLICATION <input checked="" type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type Replaced: _____ Year Installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <25% <input type="checkbox"/> b. Major Expansion ≥ 25% <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	THIS APPLICATION REQUIRES <input checked="" type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	DISPOSAL SYSTEM COMPONENT(S) <input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous components
SIZE OF PROPERTY _____ sq. ft. _____ acres	DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: _____ <input checked="" type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: (4) <input type="checkbox"/> 3. Other: (SPECIFY) 2 BEDROOMS	TYPE OF WATER SUPPLY <input type="checkbox"/> Proposed <input type="checkbox"/> Existing <input checked="" type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other: _____
SHORELAND ZONING <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Current Use: <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped	

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
TREATMENT TANK <input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> c. with lift station <input type="checkbox"/> d. monolithic <input type="checkbox"/> e. two compartment <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY 3000* gallons	DISPOSAL FIELD TYPE & SIZE <input checked="" type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device _____ <input type="checkbox"/> a. Cluster Array <input type="checkbox"/> c. Linear <input type="checkbox"/> b. Regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE 1875 sq. ft. <input type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT <input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. Multi-compartment Tank <input type="checkbox"/> b. _____ Tanks in Series <input type="checkbox"/> c. Increase in Tank Capacity <input type="checkbox"/> d. Filter on Tank Outlet	DESIGN FLOW 720 gallons per day BASED ON <input type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities
SOIL DATA & DESIGN CLASS PROFIL CONDITION 41B at Observation Hole # TP1 Depth > 48" OF MOST LIMITING SOIL FACTOR	DISPOSAL FIELD SIZING <input checked="" type="checkbox"/> 1. Medium - 2.6 sq. ft./gpd <input type="checkbox"/> 2. Medium-Large - 3.3 sq. ft./gpd <input type="checkbox"/> 3. Large - 4.1 sq. ft./gpd <input type="checkbox"/> 4. Extra Large - 5.0 sq. ft./gpd	EFFLUENT/EJECTOR PUMP <input checked="" type="checkbox"/> 1. Not Required (WITH MODEL SEPTIC TANK) <input type="checkbox"/> 2. May be Required <input type="checkbox"/> 3. Required Specify only for engineered systems DOSE: _____ gallons	<input type="checkbox"/> 3. Section 4G (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. 44° 53' 38" N Lon. 69° 53' 20" W if g.p.s., state margin of error 20

SITE EVALUATOR STATEMENT			
I certify that on 7/29/2020 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).			
Site Evaluator Signature  STEPHEN H. HOWELL	213 SE# (207) 825 - 4792	Date 8/05/2020 showellsolutions@gmail.com	
Site Evaluator Name Printed	Telephone Number	E-mail Address	Page 1 of 3

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

*** (2) 1500 GALLON SEPTIC TANKS**

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Health & Human Services
Division of Environmental Health
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

HAMPDEN

Street, Road, Subdivision

MONKOE ROAD
PINE GLOVE ESTATES

Owner's Name

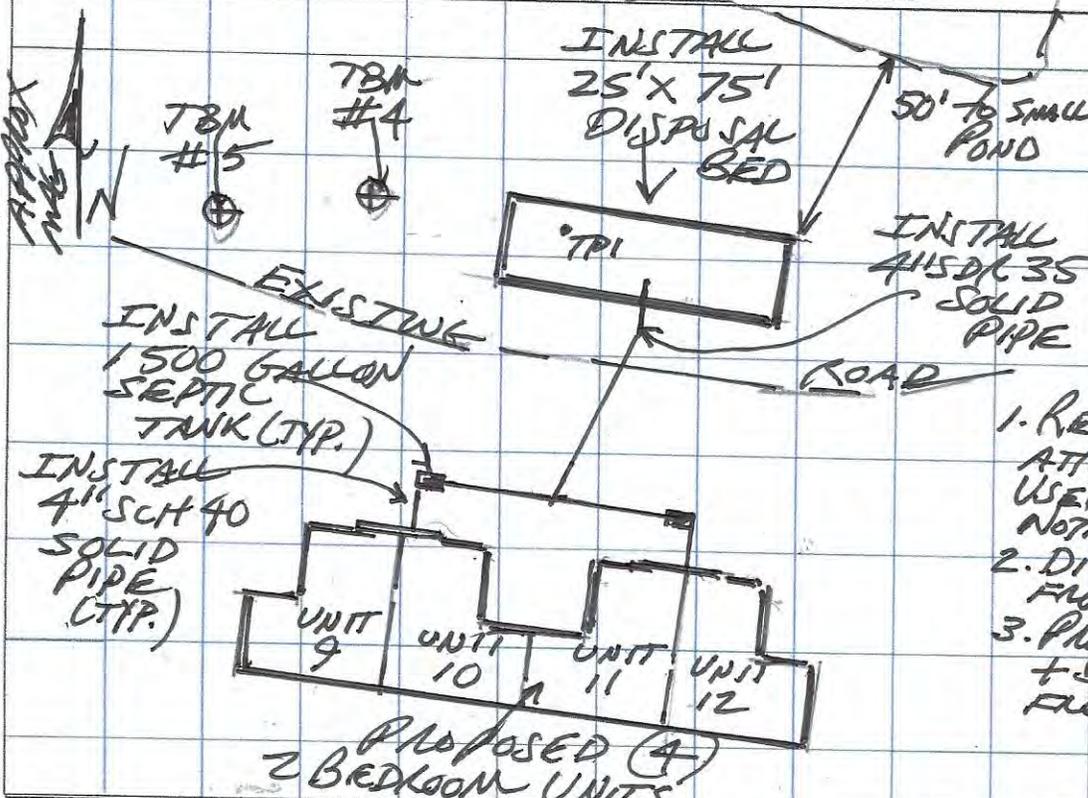
BNA PROPERTIES, LLC

SITE PLAN

Scale 1" = 50 ft. or as shown

SITE LOCATION PLAN
(map from Maine Atlas recommended)

SEE ATTACHED COPY OF SITE PLAN



- NOTES:
1. REVIEW + COMPLY WITH ATTACHED SEPTIC SYSTEM USE & CONSTRUCTION NOTES.
 2. DIVERT RUNOFF AWAY FROM DISPOSAL BED.
 3. PROPERLY PROTECT PIPES + SEPTIC TANKS FROM FREEZING + CRUSHING.

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole TPI Test Pit Boring
 < 1" Depth of Organic Horizon Above Mineral Soil

Observation Hole _____ Test Pit Boring
 _____" Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	COBBLY SANDY LOAM	FLUENT	LIGHT YELL BROWN	NONE
10	COBBLY LOAM FINE SAND		LIGHT OLIVE BROWN	
20	GRAV. V. GRAV. LOAMY SAND		OLIVE BROWN	
30				
40				
50				

LIMIT OF OBSERV = 48"

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0				
10				
20				
30				
40				
50				

Soil Classification 4 B Profile Condition	Slope 1-5%	Limiting Factor > 48"	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/> Pit Depth
--	----------------------	------------------------------------	--

Soil Classification Profile Condition	Slope %	Limiting Factor "	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
--	------------	----------------------	---

Site Evaluator Signature

#213 SE #

8/05/2020 Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. of Health & Human Services
Div. Environmental Health, 11 SHS
(207) 287-2070 FAX (207) 287-4172

PROPERTY LOCATION		>> CAUTION: LPI APPROVAL REQUIRED <<	
City, Town, or Plantation	HAMPDEN	Town/City	Permit # _____
Street or Road	MONROE ROAD	Date Permit Issued	Fee \$ _____ Double Fee Charged ()
Subdivision, Lot #	PINE GROVE ESTATES	L.P.I. #	_____
OWNER/APPLICANT INFORMATION		Local Plumbing Inspector Signature	
Name (last, first, MI)	WICKLOW, NATE	Fee: \$ _____ state min. fee \$ _____	Locally adopted fee
	<input type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant	Copy: <input type="checkbox"/> Owner <input type="checkbox"/> Town <input type="checkbox"/> State	
Mailing Address of	BNA PROPERTIES LLC	The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with the application and the Maine Subsurface Wastewater Disposal Rules.	
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant	P.O. BOX 345		
	BANGOR, ME 04402		
Daytime Tel. #	(207) 249-9321	Municipal Tax Map #	Lot #
email address:			
OWNER OR APPLICANT STATEMENT		CAUTION: INSPECTION REQUIRED	
I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit.		I have inspected the installation authorized above and found it to be in compliance with Subsurface Wastewater Disposal Rules Application.	
Signature of Owner or Applicant _____ Date _____		Local Plumbing Inspector Signature _____ (1st Date Approved)	
		_____ (2nd Date Approved)	

PERMIT INFORMATION		
TYPE OF APPLICATION	THIS APPLICATION REQUIRES	DISPOSAL SYSTEM COMPONENT(S)
<input checked="" type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type Replaced: _____ Year Installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <25% <input type="checkbox"/> b. Major Expansion ≥ 25% <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	<input checked="" type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	<input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous components
SIZE OF PROPERTY	DISPOSAL SYSTEM TO SERVE	TYPE OF WATER SUPPLY
_____ <input type="checkbox"/> sq. ft. _____ <input type="checkbox"/> acres	<input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: _____ <input checked="" type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: (4) <input type="checkbox"/> 3. Other: (SPECIFY) 2 BEDROOMS	<input checked="" type="checkbox"/> Proposed <input type="checkbox"/> Existing <input type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other: _____
SHORELAND ZONING	Current Use:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped	

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
(2) TREATMENT TANKS	DISPOSAL FIELD TYPE & SIZE	GARBAGE DISPOSAL UNIT	DESIGN FLOW
<input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> c. with lift station <input type="checkbox"/> d. monolithic <input type="checkbox"/> e. two compartment <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY 3000* gallons	<input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input checked="" type="checkbox"/> 3. Proprietary Device QUICK 4 PLASTIC INFILTRATORS <input type="checkbox"/> a. Cluster Array <input checked="" type="checkbox"/> c. Linear <input checked="" type="checkbox"/> b. Regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE 1970 <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	<input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. Multi-compartment Tank <input type="checkbox"/> b. _____ Tanks in Series <input type="checkbox"/> c. Increase in Tank Capacity <input type="checkbox"/> d. Filter on Tank Outlet	720 gallons per day BASED ON <input checked="" type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities (4) 2 BEDROOM UNITS @ 180 GPD / UNIT = 720
SOIL DATA & DESIGN CLASS PROFILE CONDITION	DISPOSAL FIELD SIZING	EFFLUENT/EJECTOR PUMP	LATITUDE AND LONGITUDE
51B at Observation Hole # TPL Depth > 48" OF MOST LIMITING SOIL FACTOR	<input checked="" type="checkbox"/> 1. Medium - 2.6 sq. ft./gpd <input type="checkbox"/> 2. Medium-Large - 3.3 sq. ft./gpd <input type="checkbox"/> 3. Large - 4.1 sq. ft./gpd <input type="checkbox"/> 4. Extra Large - 5.0 sq. ft./gpd	<input checked="" type="checkbox"/> 1. Not Required (WITH PROPOSED SEPTIC TANK) <input type="checkbox"/> 2. May be Required <input type="checkbox"/> 3. Required Specify only for engineered systems DOSE: _____ gallons	<input checked="" type="checkbox"/> 3. Section 4G (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. 44° 53' 50" N Lon. 68° 53' 13" W if g.p.s., state margin of error 20'

SITE EVALUATOR STATEMENT			
I certify that on 7/29/2020 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).			
Site Evaluator Signature STEPHEN H. HOWELL	SE# 213	Date 8/04/2020	Date 8/17/2020
Site Evaluator Name Printed	Telephone Number (207) 825 - 4792	E-mail Address showellssoilsolutions@gmail.com	Page 1 of 3

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Health & Human Services
 Division of Environmental Health
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

HAMPDEN

Street, Road, Subdivision

MAJOR ROAD
 PINE GROVE ESTATES

Owner's Name

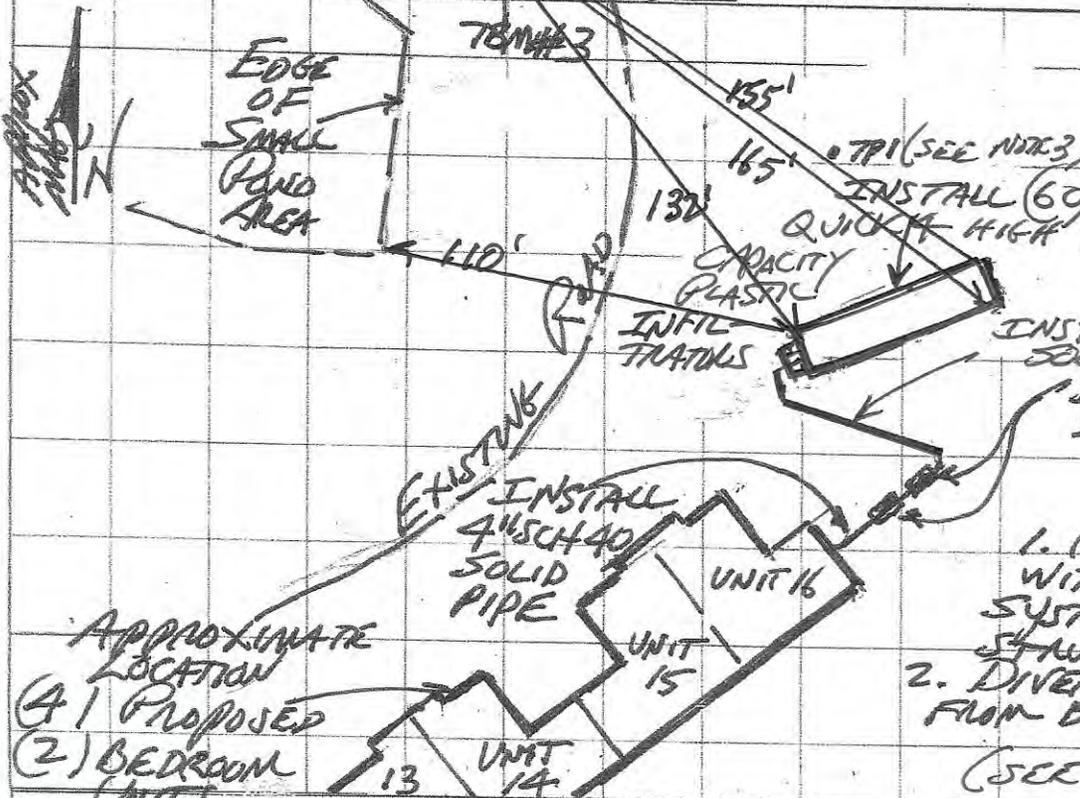
BNA PROPERTIES, LLC

SITE PLAN

Scale 1" = 50 ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas
 recommended)

SEE
 ATTACHED
 COPY OF
 LOT PLAN



INSTALL 4" SCH 35
 SOLID PIPE
 INSTALL 1500 GALLON
 SEPTIC TANKS

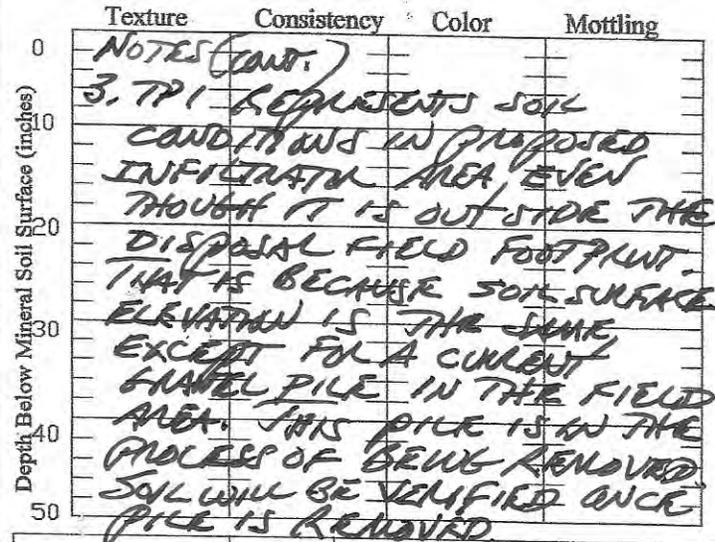
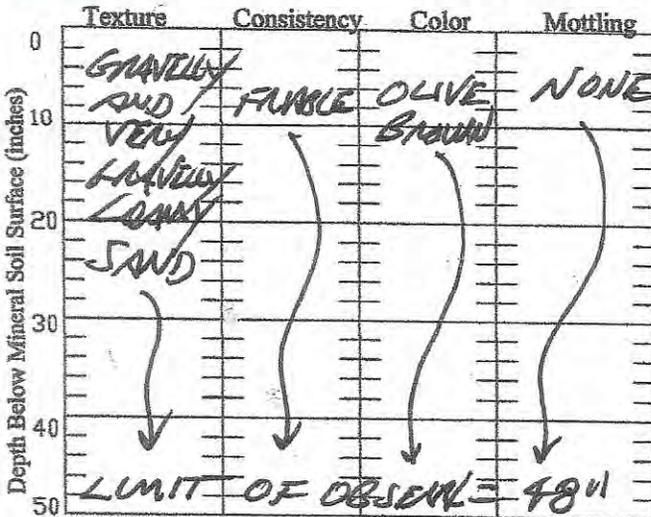
NOTES:
 1. REVIEW & COMPLY
 WITH ATTACHED SEPTIC
 SYSTEM USE & CON-
 STRUCTION NOTES.
 2. DIVERT RUNOFF AWAY
 FROM DISPOSAL BED.
 (SEE NOTE 3 BELOW)

APPROXIMATE
 LOCATION
 (1) PROPOSED
 (2) BEDROOM
 UNIT

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole TPI Test Pit Boring
 <1" Depth of Organic Horizon Above Mineral Soil

Observation Hole _____ Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil



Soil Classification 5B	Slope 0-1%	Limiting Factor >48"	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/> Pit Depth
Profile	Condition		

Soil Classification	Slope	Limiting Factor	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
Profile	Condition		

Site Evaluator Signature

#213 SE #

8/05/2020 Date

Round 8/17/2020
 Page 2 of 2
 HHE-200 Rev. 02/11

UNITS 13-16

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Health & Human Services
Division of Environmental Health
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

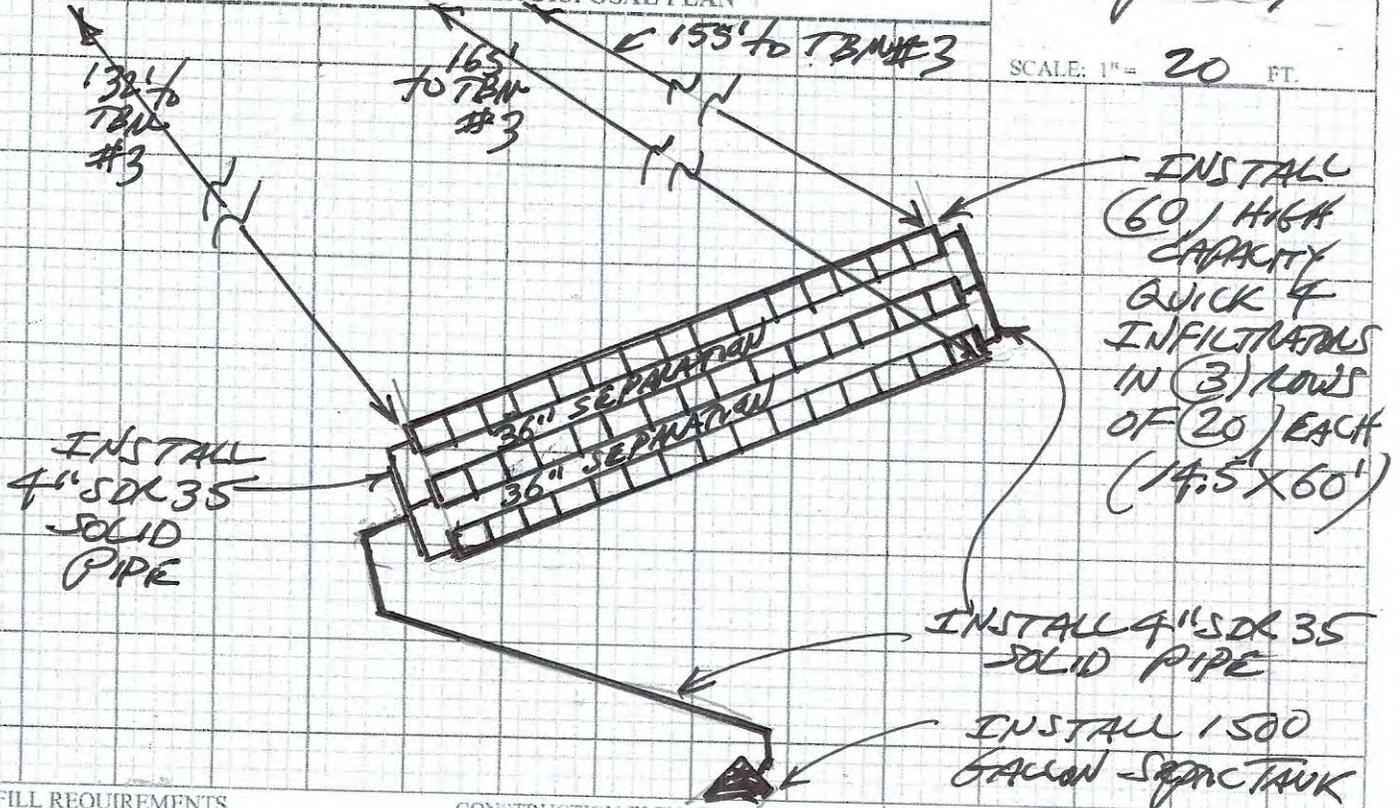
HAMPDEN

MONROE ROAD
PINE GROVE ESTATES

BNA PROPERTIES, LLC

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20 FT.



FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

Depth of Fill (Upslope)	0"	Finished Grade Elevation
Depth of Fill (Downslope)	0"	Top of Distribution Pipe or Proprietary Device
		Bottom of Disposal Area

-51"	ELEVATION REFERENCE POINT (TBM#3)
-63"	Location & Description: NAIL FLAGGING
-79"	83" UP A 9" DIAM. MAPLE TREE
	Reference Elevation: 0" TREE

DISPOSAL AREA CROSS SECTION

Scale	
Horizontal	1" = ___ ft.
Vertical	1" = ___ ft.

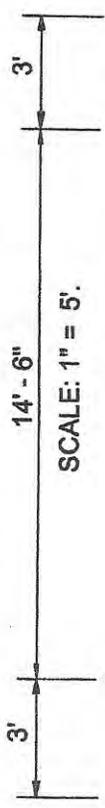
SEE ATTACHED
QUICK 4 PLASTIC
CHAMBER CROSS
SECTION

Site Evaluator Signature

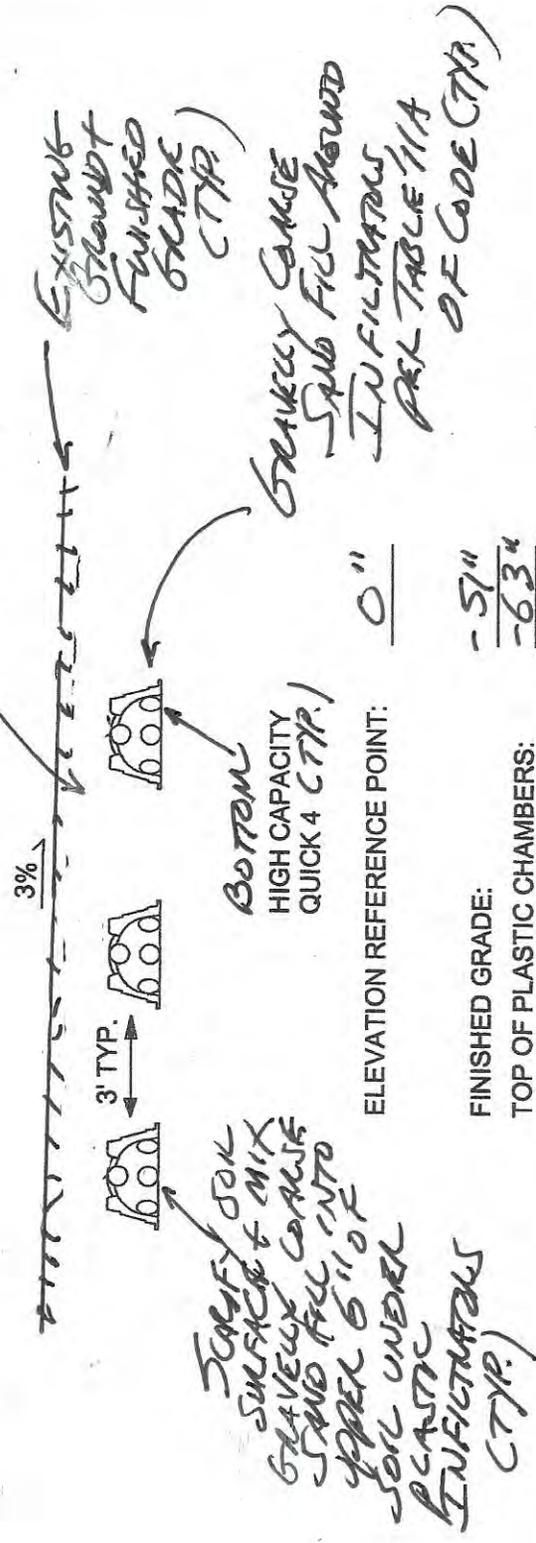
#213 8/12/2020
SE # Date

UNITS 13-16

QUICK 4 PLASTIC CHAMBER CROSS SECTION



8" CLEAN FILL, MINIMUM;
(GRADED AND SEEDED)



NOTES:

1. REMOVE THE VEGETATION AND SCARIFY THE AREA BENEATH SYSTEM AND FILL EXTENSIONS.
2. INSTALL COARSE SAND TO GRAVELLY COARSE SAND IN 8" LIFTS AND COMPACT USING A SMALL DOZER.
3. KEEP THE BOTTOM OF THE PLASTIC CHAMBERS LEVEL.
4. THE TOP 4" OF THE CLEAN FILL WILL CONSIST OF SOIL AMENDMENT MIX, SUITABLE FOR ESTABLISHMENT OF A VEGETATIVE COVER. THIS WILL BE PLACED OVER THE SYSTEM INCLUDING FILL EXTENSIONS.
5. PROTECT ALL PIPING FROM FROST.

OWNER: BNA Properties, LLC
 LOCATION: PINE GROVE ESTATES
MARION ROAD


 SITE EVALUATOR #213 S.E.#

9/17/2020
 DATE

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. of Health & Human Services
Div. Environmental Health, 11 SHS
(207) 287-2070 FAX (207) 287-4172

PROPERTY LOCATION		>> CAUTION: LPI APPROVAL REQUIRED <<	
City, Town, or Plantation	HAMPDEN	Town/City	Permit # _____
Street or Road	MONROE ROAD	Date Permit Issued	Fee \$ _____ Double Fee Charged ()
Subdivision, Lot #	PINE GROVE ESTATES		L.P.I. # _____
OWNER/APPLICANT INFORMATION		Local Plumbing Inspector Signature	
Name (last, first, MI)	WICKLOW, NATE	Fee: \$ _____ state min. fee \$ _____	Locally adopted fee
	<input type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant	Copy: <input type="checkbox"/> Owner <input type="checkbox"/> Town <input type="checkbox"/> State	
Mailing Address of	BNA PROPERTIES LLC	The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with the application and the Maine Subsurface Wastewater Disposal Rules.	
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant	P.O. BOX 345 BANGOR, ME 04402		
Daytime Tel. # email address:	(207) 249-9321	Municipal Tax Map # _____	Lot # _____
OWNER OR APPLICANT STATEMENT		CAUTION: INSPECTION REQUIRED	
I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit.		I have inspected the installation authorized above and found it to be in compliance with Subsurface Wastewater Disposal Rules Application.	
Signature of Owner or Applicant _____ Date _____		Local Plumbing Inspector Signature _____ (1st Date Approved) _____ (2nd Date Approved) _____	

PERMIT INFORMATION		
TYPE OF APPLICATION <input checked="" type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type Replaced: _____ Year Installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <25% <input type="checkbox"/> b. Major Expansion ≥ 25% <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	THIS APPLICATION REQUIRES <input checked="" type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	DISPOSAL SYSTEM COMPONENT(S) <input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous components
SIZE OF PROPERTY _____ sq. ft. _____ acres	DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: _____ <input checked="" type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: (4) <input type="checkbox"/> 3. Other: (SPECIFY) 2 BEDROOMS	TYPE OF WATER SUPPLY <input checked="" type="checkbox"/> Proposed <input type="checkbox"/> Existing <input type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other: _____
SHORELAND ZONING <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Current Use: <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped	

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
<input checked="" type="checkbox"/> TREATMENT TANKS <input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> c. with lift station <input checked="" type="checkbox"/> d. monolithic <input type="checkbox"/> e. two compartment <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY 3000* gallons	DISPOSAL FIELD TYPE & SIZE <input checked="" type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device _____ <input type="checkbox"/> a. Cluster Array <input type="checkbox"/> c. Linear <input type="checkbox"/> b. Regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE 180 sq. ft. <input type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT <input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. Multi-compartment Tank <input type="checkbox"/> b. _____ Tanks in Series <input type="checkbox"/> c. Increase in Tank Capacity <input type="checkbox"/> d. Filter on Tank Outlet	DESIGN FLOW gallons per day BASED ON <input checked="" type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities (4) 2 BEDROOM UNITS @ 180 GPD / UNIT = 720 GPD
SOIL DATA & DESIGN CLASS PROFILE CONDITION S1B at Observation Hole # TPI Depth 2.48m OF MOST LIMITING SOIL FACTOR	DISPOSAL FIELD SIZING <input checked="" type="checkbox"/> 1. Medium -- 2.6 sq. ft./gpd <input type="checkbox"/> 2. Medium-Large -- 3.3 sq. ft./gpd <input type="checkbox"/> 3. Large -- 4.1 sq. ft./gpd <input type="checkbox"/> 4. Extra Large -- 5.0 sq. ft./gpd	EFFLUENT/EJECTOR PUMP <input checked="" type="checkbox"/> 1. Not Required (WITH PROPOSED SEPTIC TANK) <input type="checkbox"/> 2. May be Required <input type="checkbox"/> 3. Required Specify only for engineered systems DOSE: _____ gallons	ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. 44° 22' 53" N Lon. 68° 53' 06" W * if g.p.s., state margin of error 20

SITE EVALUATOR STATEMENT			
I certify that on 7/29/2020 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).			
Site Evaluator Signature  STEPHEN H. HOWELL	213 SE# (207) 825 - 4792	Date 8/05/2020	E-mail Address showellsoilsolutions@gmail.com

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.
*** (2) 1500 GALLON SEPTIC TANKS**

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Health & Human Services
 Division of Environmental Health
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

HAMPDEN

MONROE ROAD
 PINE GROVE ESTATES

BNA PROPERTIES, LLC

SITE PLAN

Scale 1" = 50 ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas recommended)

SEE ATTACHED COPY OF LOT PLAN



- NOTES:
1. REVIEW & COMPLY WITH ATTACHED SEPTIC SYSTEM USE & CONSTRUCTION NOTES.
 2. DIVERT RUNOFF AWAY FROM DISPOSAL BED.

APPROXIMATE PROPOSED LOCATION (A) & BEDROOM UNITS

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole TR1 Test Pit Boring
 < 1" Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	COBBLY SAND	FINE	LIGHT OLIVE BROWN	NONE
10	SAND		OLIVE BROWN	
20	VERY GRAVELLY SAND		OLIVE BROWN	
30				
40				
50				

LIMIT OF OBSERV = 48"

Observation Hole _____ Test Pit Boring
 _____ " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0				
10				
20				
30				
40				
50				

Soil Classification 5 B Profile Condition	Slope 0.3%	Limiting Factor 48"	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/> Pit Depth
--	----------------------	-------------------------------	--

Soil Classification Profile Condition	Slope %	Limiting Factor "	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
--	------------	----------------------	---

Site Evaluator Signature

#213 8/05/2020
 SE # Date

UNITS 21+22

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. of Health & Human Services
Div. Environmental Health, 11 SHS
(207) 287-2070 FAX (207) 287-4172

PROPERTY LOCATION		>> CAUTION: LPI APPROVAL REQUIRED <<	
City, Town, or Plantation	HAMPDEN	Town/City	Permit # _____
Street or Road	MONROE ROAD	Date Permit Issued	Fee \$ _____ Double Fee Charged ()
Subdivision, Lot #	PINE GLOVE ESTATES		L.P.I. # _____
OWNER/APPLICANT INFORMATION		Local Plumbing Inspector Signature	
Name (last, first, MI)	WICKLOW, NATE <input type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant	Fee: \$ _____ state min. fee \$ _____	Locally adopted fee _____
Mailing Address of	BNA PROPERTIES LLC P.O. BOX 345 BANGOR, ME 04402	The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with the application and the Maine Subsurface Wastewater Disposal Rules.	
Daytime Tel. #	(207) 249-9321	Municipal Tax Map #	Lot # _____
OWNER OR APPLICANT STATEMENT		CAUTION: INSPECTION REQUIRED	
I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit.		I have inspected the installation authorized above and found it to be in compliance with Subsurface Wastewater Disposal Rules Application.	
Signature of Owner or Applicant _____ Date _____		Local Plumbing Inspector Signature _____ (1st Date Approved) _____ (2nd Date Approved) _____	

PERMIT INFORMATION

TYPE OF APPLICATION	THIS APPLICATION REQUIRES	DISPOSAL SYSTEM COMPONENT(S)
<input checked="" type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type Replaced: _____ Year Installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <25% <input type="checkbox"/> b. Major Expansion ≥ 25% <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	<input checked="" type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	<input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous components _____
SIZE OF PROPERTY	DISPOSAL SYSTEM TO SERVE	TYPE OF WATER SUPPLY
_____ sq. ft. <input type="checkbox"/> _____ acres <input type="checkbox"/> SHORELAND ZONING <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: _____ <input checked="" type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: 2 <input type="checkbox"/> 3. Other: (SPECIFY) 2 BEDROOMS Current Use: <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped	<input checked="" type="checkbox"/> Proposed <input type="checkbox"/> Existing <input checked="" type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other: _____

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK	DISPOSAL FIELD TYPE & SIZE	GARBAGE DISPOSAL UNIT	DESIGN FLOW
<input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> c. with lift station <input type="checkbox"/> d. monolithic <input type="checkbox"/> e. two compartment <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY 1500 gallons	<input checked="" type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device _____ <input type="checkbox"/> a. Cluster Array <input type="checkbox"/> c. Linear <input type="checkbox"/> b. Regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE 100 sq. ft. <input type="checkbox"/> lin. ft.	<input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. Multi-compartment Tank <input type="checkbox"/> b. _____ Tanks in Series <input type="checkbox"/> c. Increase in Tank Capacity <input type="checkbox"/> d. Filter on Tank Outlet	360 gallons per day BASED ON <input checked="" type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities (2) 2 BEDROOM UNITS @ 180 GPD UNIT = 360 GPD
SOIL DATA & DESIGN CLASS	DISPOSAL FIELD SIZING	EFFLUENT/EJECTOR PUMP	LATITUDE AND LONGITUDE
PROFILE CONDITION S1B at Observation Hole # TPI Depth 2.48' OF MOST LIMITING SOIL FACTOR	<input checked="" type="checkbox"/> 1. Medium - 2.6 sq. ft./gpd <input type="checkbox"/> 2. Medium-Large - 3.3 sq. ft./gpd <input type="checkbox"/> 3. Large - 4.1 sq. ft./gpd <input type="checkbox"/> 4. Extra Large - 5.0 sq. ft./gpd	<input checked="" type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May be Required <input type="checkbox"/> 3. Required Specify only for engineered systems DOSE: _____ gallons	ATTACH WATER METER DATA at center of disposal area Lat. 44° 42' 53" N Lon. 68° 53' 13" W if g.p.s., state margin of error

SITE EVALUATOR STATEMENT

I certify that on **7/29/2020** (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Site Evaluator Signature: **STEPHEN H. HOWELL** SE#: **213** Date: **8/05/2020**
 Telephone Number: **(207) 825-4792** E-mail Address: **showellsoilsolutions@gmail.com**

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Health & Human Services
 Division of Environmental Health
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

HAMPDEN

Street, Road, Subdivision

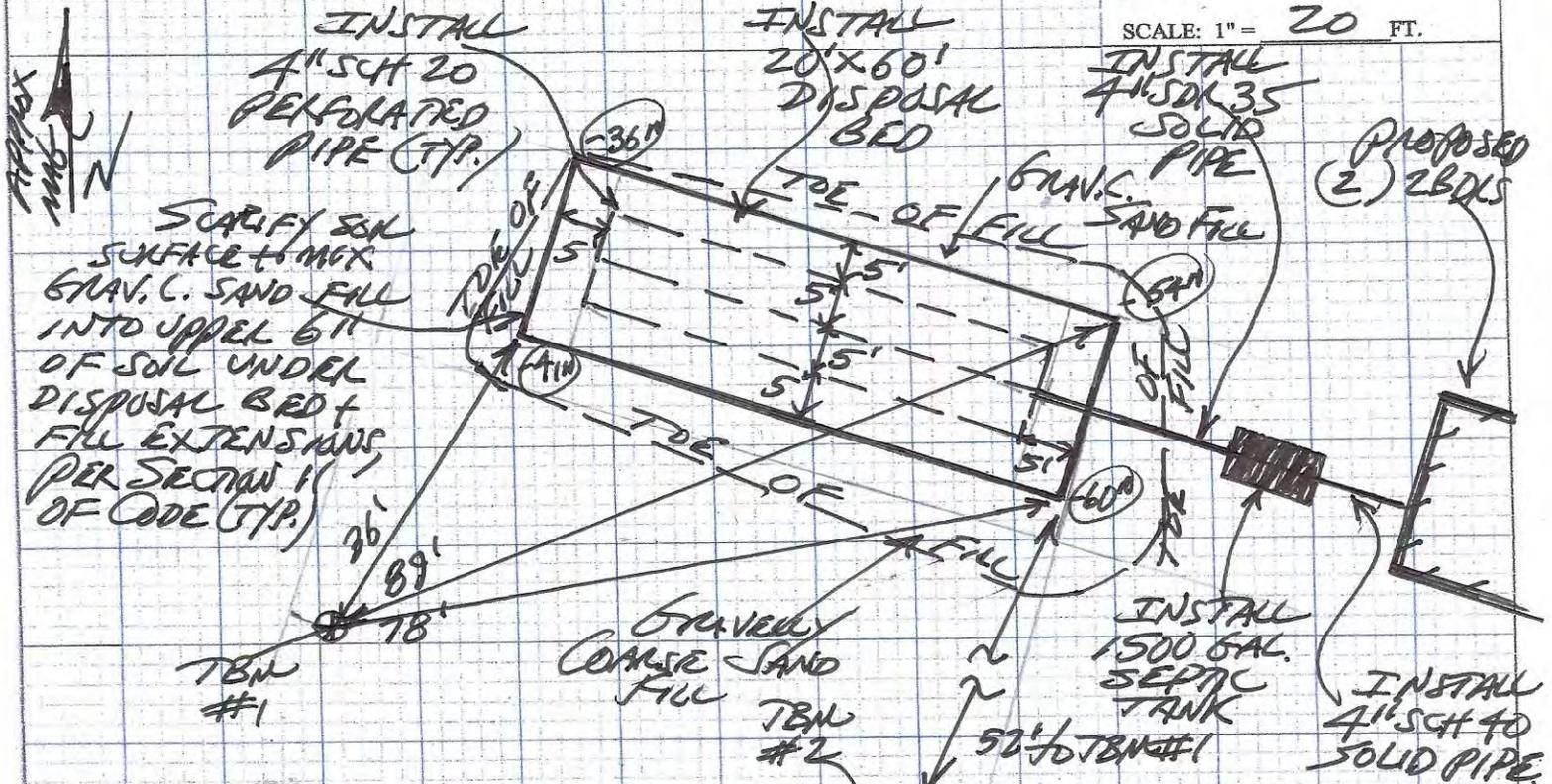
PINE GROVE ESTATES
 MONROE ROAD

Owner's Name

BNA PROPERTIES, LLC

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20 FT.



FILL REQUIREMENTS

Depth of Fill (Upslope) 0' 18"
 Depth of Fill (Downslope) 5' 24"

CONSTRUCTION ELEVATIONS

-36"
 -49"
 -60"

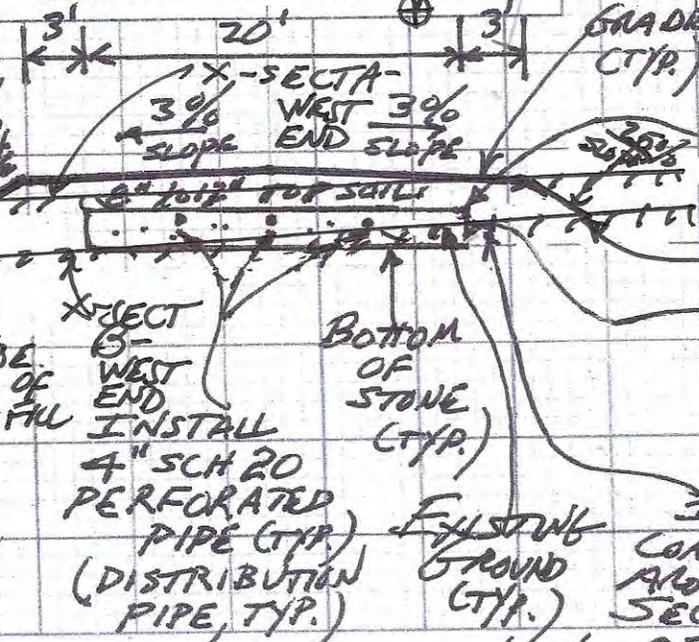
ELEVATION REFERENCE POINT (TBM #1)

Location & Description: NAIL + FLAG ON 66" UP A 5" DRAIN BEECH
 Reference Elevation: = 0" TREE

NOTES:

1. SCARIFY SOIL SURFACE & MIX GRAVELLY COARSE SAND FILL INTO UPPER 6" OF SOIL UNDER DISPOSAL BED & FILL EXTENSIONS.
2. LIME FERTILIZE, SEED & MULCH ALL DISTURBED AREAS.
3. DISTRIBUTION LINES TO BE LEVEL.

DISPOSAL AREA CROSS SECTION



FINISHED GRADE (TYP.)

Scale
 Horizontal 1" = 10 ft.
 Vertical 1" = 5 ft.

2" LAYER OF COMPACT HAY OR FILTER FABRIC OVER STONE
 TOE OF FILL (TYP.)
 INSTALL 12" LAYER OF CLEAN & WASHED STONE, PER SECTION 11, TABLE 11B OF CODE

INSTALL GRAVELLY COARSE SAND FILL AROUND STONE PER SECTION 11 TABLE 11A OF CODE

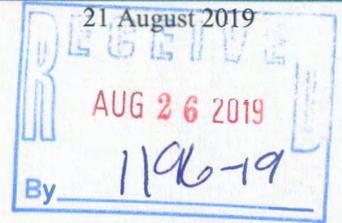
Site Evaluator Signature

213 8/05/2020

SE # Date



ENGINEERING & DEVELOPMENT CONSULTING



Kirk Mohney
Deputy State Historic Preservation Officer
65 State House Station
Augusta, ME 04333-0065

Monroe Road, Hampden

Dear Kirk,

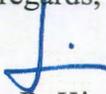
We are currently working to develop this 12± acre parcel of land located on the Monroe Road in Hampden. The property is currently undeveloped and has been harvested. We are in the initial stages of developing the project with a 4plex building.

The attached USGS locates the site and the surrounding area. Wetlands have been mapped on the site and that work did not identify any significant features or habitat. Based on our review of the area, there are no structures that appear to be of historic value.

We would appreciate your review of this information and other available data, and inform us if the department has any concerns related to development of this parcel.

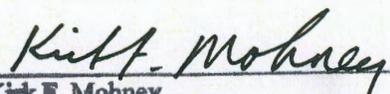
Thank you for your assistance and we look forward to hearing from you in the near future.

Best regards,


James R. Kiser, PE
Kiser & Kiser Co.

Enc.

Based on the information submitted, I have concluded that there will be no historic properties affected by the proposed undertaking, as defined by Section 106 of the National Historic Preservation Act. Consequently, pursuant to 36 CFR 800.4(d)(1), no further Section 106 consultation is required unless additional resources are discovered during project implementation pursuant to 36 CFR 800.13.


Kirk F. Mohney,
State Historic Preservation Officer
Maine Historic Preservation Commission

8/28/19
Date



STATE OF MAINE
DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY

177 STATE HOUSE STATION
AUGUSTA, MAINE 04333

JANET T. MILLS
GOVERNOR

AMANDA E. BEAL
COMMISSIONER

August 27, 2019

James Kiser
Kiser & Kiser
PO Box 282
Hampden, ME 04444

Via email: jim@kiser-kiser.com

Re: Rare and exemplary botanical features in proximity to: #723, Monroe Road Property, Hampden, Maine

Dear Mr. Kiser:

I have searched the Maine Natural Areas Program's Biological and Conservation Data System files in response to your request received August 21, 2019 for information on the presence of rare or unique botanical features documented from the vicinity of the project in Hampden, Maine. Rare and unique botanical features include the habitat of rare, threatened, or endangered plant species and unique or exemplary natural communities. Our review involves examining maps, manual and computerized records, other sources of information such as scientific articles or published references, and the personal knowledge of staff or cooperating experts.

Our official response covers only botanical features. For authoritative information and official response for zoological features you must make a similar request to the Maine Department of Inland Fisheries and Wildlife, 284 State Street, Augusta, Maine 04333.

According to the information currently in our Biological and Conservation Data System files, there are no rare botanical features documented specifically within the project area. This lack of data may indicate minimal survey efforts rather than confirm the absence of rare botanical features. You may want to have the site inventoried by a qualified field biologist to ensure that no undocumented rare features are inadvertently harmed.

If a field survey of the project area is conducted, please refer to the enclosed supplemental information regarding rare and exemplary botanical features documented to occur in the vicinity of the project site. The list may include information on features that have been known to occur historically in the area as well as recently field-verified information. While historic records have not been documented in several years, they may persist in the area if suitable habitat exists. The enclosed list identifies features with potential to occur in the area, and it should be considered if you choose to conduct field surveys.

This finding is available and appropriate for preparation and review of environmental assessments, but it is not a substitute for on-site surveys. Comprehensive field surveys do not exist for all natural areas in Maine, and in the absence of a specific field investigation, the Maine Natural Areas Program cannot provide a definitive statement on the presence or absence of unusual natural features at this site.

MOLLY DOCHERTY, DIRECTOR
MAINE NATURAL AREAS PROGRAM
BLOSSOM LANE, DEERING BUILDING



PHONE: (207) 287-804490
WWW.MAINE.GOV/DACF/MNAP

Letter to Kiser & Kiser
Comments RE: Monroe Road, Hampden
August 27, 2019
Page 2 of 2

The Maine Natural Areas Program (MNAP) is continuously working to achieve a more comprehensive database of exemplary natural features in Maine. We would appreciate the contribution of any information obtained should you decide to do field work. MNAP welcomes coordination with individuals or organizations proposing environmental alteration, or conducting environmental assessments. If, however, data provided by MNAP are to be published in any form, the Program should be informed at the outset and credited as the source.

The Maine Natural Areas Program has instituted a fee structure of \$75.00 an hour to recover the actual cost of processing your request for information. You will receive an invoice for \$150.00 for two hours of our services.

Thank you for using MNAP in the environmental review process. Please do not hesitate to contact me if you have further questions about the Natural Areas Program or about rare or unique botanical features on this site.

Sincerely,



Kristen Puryear | Ecologist | Maine Natural Areas Program
207-287-8043 | kristen.puryear@maine.gov

Rare and Exemplary Botanical Features within 4 miles of Project: #723, Monroe Road Property, Hampden, Maine

Common Name	State Status	State Rank	Global Rank	Date Last Observed	Occurrence Number	Habitat
Estuary Bur-marigold						
	SC	S3	G4	2007-08-27	8	Tidal wetland (non-forested, wetland)
	SC	S3	G4	2006-08-30	6	Tidal wetland (non-forested, wetland)
	SC	S3	G4	2004-08-21	11	Tidal wetland (non-forested, wetland)
	SC	S3	G4	2005-09-20	12	Tidal wetland (non-forested, wetland)
Horned Pondweed						
	SC	S2	G5	2006-08-17	18	Tidal wetland (non-forested, wetland)
	SC	S2	G5	2006-08-17	11	Tidal wetland (non-forested, wetland)
Mudwort						
	SC	S3	G4G5	2010-09-15	3	Tidal wetland (non-forested, wetland)
	SC	S3	G4G5	2005-09-20	28	Tidal wetland (non-forested, wetland)
	SC	S3	G4G5	2004-08-21	27	Tidal wetland (non-forested, wetland)
	SC	S3	G4G5	2006-08-17	26	Tidal wetland (non-forested, wetland)
Parker's Pipewort						
	SC	S3	G3	2005-09-20	10	Tidal wetland (non-forested, wetland)
	SC	S3	G3	1937-08-23	11	Tidal wetland (non-forested, wetland)
	SC	S3	G3	2004-08-21	3	Tidal wetland (non-forested, wetland)
Purple Clematis						
	SC	S3	G5T5	1916-08	14	Non-tidal rivershore (non-forested, seasonally wet),Hardwood to mixed forest (forest, upland)
Pygmyweed						
	SC	S2S3	G5	2004-08-21	2	Open water (non-forested, wetland)
	SC	S2S3	G5	1990	3	Open water (non-forested, wetland)

Rare and Exemplary Botanical Features within 4 miles of Project: #723, Monroe Road Property, Hampden, Maine

Common Name	State Status	State Rank	Global Rank	Date Last Observed	Occurrence Number	Habitat
Spongy-leaved Arrowhead						
	SC	S3	G5T4	1937-08-16	24	Tidal wetland (non-forested, wetland)
	SC	S3	G5T4	2010-11-01	6	Tidal wetland (non-forested, wetland)
	SC	S3	G5T4	2004-08-21	5	Tidal wetland (non-forested, wetland)
	SC	S3	G5T4	2006-08-17	45	Tidal wetland (non-forested, wetland)
	SC	S3	G5T4	1990	25	Tidal wetland (non-forested, wetland)
	SC	S3	G5T4	2006-08-17	46	Tidal wetland (non-forested, wetland)
Upper Floodplain Hardwood Forest						
	<null>	S3	GNR	2014-05-07	29	Forested wetland
Water Pimpernel						
	SC	S3	G5T5	2010-09-15	5	Tidal wetland (non-forested, wetland)
	SC	S3	G5T5	2005-09-20	17	Tidal wetland (non-forested, wetland)
	SC	S3	G5T5	2004-08-21	3	Tidal wetland (non-forested, wetland)
Wild Garlic						
	SC	S2	G5	2014-05-07	23	Forested wetland,Hardwood to mixed forest (forest, upland)

STATE RARITY RANKS

- S1** Critically imperiled in Maine because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biology makes it especially vulnerable to extirpation from the State of Maine.
- S2** Imperiled in Maine because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
- S3** Rare in Maine (20-100 occurrences).
- S4** Apparently secure in Maine.
- S5** Demonstrably secure in Maine.
- SU** Under consideration for assigning rarity status; more information needed on threats or distribution.
- SNR** Not yet ranked.
- SNA** Rank not applicable.
- S#?** Current occurrence data suggests assigned rank, but lack of survey effort along with amount of potential habitat create uncertainty (e.g. S3?).

Note: **State Rarity Ranks** are determined by the Maine Natural Areas Program for rare plants and rare and exemplary natural communities and ecosystems. The Maine Department of Inland Fisheries and Wildlife determines State Rarity Ranks for animals.

GLOBAL RARITY RANKS

- G1** Critically imperiled globally because of extreme rarity (five or fewer occurrences or very few remaining individuals or acres) or because some aspect of its biology makes it especially vulnerable to extinction.
- G2** Globally imperiled because of rarity (6-20 occurrences or few remaining individuals or acres) or because of other factors making it vulnerable to further decline.
- G3** Globally rare (20-100 occurrences).
- G4** Apparently secure globally.
- G5** Demonstrably secure globally.
- GNR** Not yet ranked.

Note: **Global Ranks** are determined by NatureServe.

STATE LEGAL STATUS

Note: State legal status is according to 5 M.R.S.A. § 13076-13079, which mandates the Department of Conservation to produce and biennially update the official list of Maine's **Endangered** and **Threatened** plants. The list is derived by a technical advisory committee of botanists who use data in the Natural Areas Program's database to recommend status changes to the Department of Conservation.

- E** ENDANGERED; Rare and in danger of being lost from the state in the foreseeable future; or federally listed as Endangered.
- T** THREATENED; Rare and, with further decline, could become endangered; or federally listed as Threatened.

NON-LEGAL STATUS

- SC** SPECIAL CONCERN; Rare in Maine, based on available information, but not sufficiently rare to be considered Threatened or Endangered.
- PE** Potentially Extirpated; Species has not been documented in Maine in past 20 years or loss of last known occurrence has been documented.

ELEMENT OCCURRENCE RANKS - EO RANKS

Element Occurrence ranks are used to describe the quality of a rare plant population or natural community based on three factors:

- **Size:** Size of community or population relative to other known examples in Maine. Community or population's viability, capability to maintain itself.
- **Condition:** For communities, condition includes presence of representative species, maturity of species, and evidence of human-caused disturbance. For plants, factors include species vigor and evidence of human-caused disturbance.
- **Landscape context:** Land uses and/or condition of natural communities surrounding the observed area. Ability of the observed community or population to be protected from effects of adjacent land uses.

These three factors are combined into an overall ranking of the feature of **A**, **B**, **C**, or **D**, where **A** indicates an **excellent** example of the community or population and **D** indicates a **poor** example of the community or population. A rank of **E** indicates that the community or population is **extant** but there is not enough data to assign a quality rank. The Maine Natural Areas Program tracks all occurrences of rare (S1-S3) plants and natural communities as well as A and B ranked common (S4-S5) natural communities.

Note: **Element Occurrence Ranks** are determined by the Maine Natural Areas Program for rare plants and rare and exemplary natural communities and ecosystems. The Maine Department of Inland Fisheries and Wildlife determines Element Occurrence ranks for animals.

Visit our website for more information on rare, threatened, and endangered species!
<http://www.maine.gov/dacf/mnap>



JANET T. MILLS
GOVERNOR

STATE OF MAINE
DEPARTMENT OF
INLAND FISHERIES & WILDLIFE
284 STATE STREET
41 STATE HOUSE STATION
AUGUSTA ME 04333-0041



JUDITH CAMUSO
COMMISSIONER

September 30, 2019

James Kiser
Kiser & Kiser Co.
PO Box 282
Hampden, ME 04444

RE: Information Request - Monroe Road, Hampden

Dear James:

Per your request received August 23, 2019, we have reviewed current Maine Department of Inland Fisheries and Wildlife (MDIFW) information for known locations of Endangered, Threatened, and Special Concern species; designated Essential and Significant Wildlife Habitats; and fisheries habitat concerns within the vicinity of the *Monroe Road Project* in Hampden.

Our Department has not mapped any Essential Habitats or fisheries habitats that would be directly affected by your project.

Endangered, Threatened, and Special Concern Species

Bats

Of the eight species of bats that occur in Maine, the three *Myotis* species are protected under Maine's Endangered Species Act (MESA) and are afforded special protection under 12 M.R.S §12801 - §12810. The three *Myotis* species include little brown bat (State Endangered), northern long-eared bat (State Endangered), and eastern small-footed bat (State Threatened). The five remaining bat species are listed as Special Concern: big brown bat, red bat, hoary bat, silver-haired bat, and tri-colored bat.

While a comprehensive statewide inventory for bats has not been completed, based on historical evidence it is likely that several of these species occur within the project area during migration and/or the breeding season. However, our Agency does not anticipate significant impacts to any of the bat species as a result of this project.

Significant Wildlife Habitat

Significant Vernal Pools

At this time MDIFW Significant Wildlife Habitat (SWH) maps indicate no known presence of SWHs subject to protection under the Natural Resources Protection Act (NRPA) within the project area, which include Waterfowl and Wading Bird Habitats, Seabird Nesting Islands, Shorebird Areas, and Significant

Vernal Pools. However, a comprehensive statewide inventory for Significant Vernal Pools has not been completed. Therefore, we recommend that surveys for vernal pools be conducted within the project boundary by qualified wetland scientists prior to final project design to determine whether there are Significant Vernal Pools present in the area. These surveys should extend up to 250 feet beyond the anticipated project footprint because of potential performance standard requirements for off-site Significant Vernal Pools, assuming such pools are located on land owned or controlled by the applicant. Once surveys are completed, survey forms should be submitted to our Agency for review well before the submission of any necessary permits. Our Department will need to review and verify any vernal pool data prior to final determination of significance.

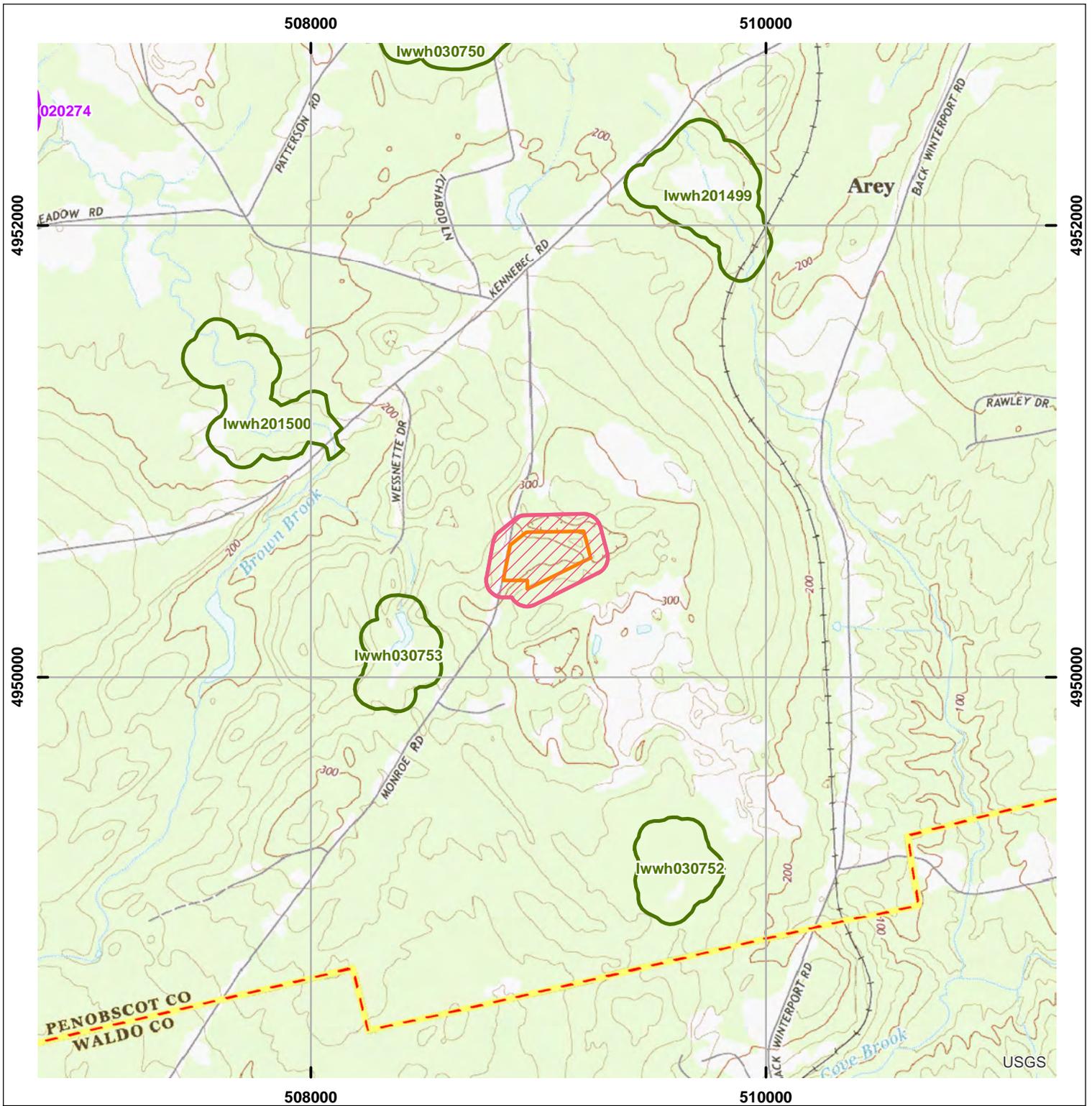
This consultation review has been conducted specifically for known MDIFW jurisdictional features and should not be interpreted as a comprehensive review for the presence of other regulated features that may occur in this area. Prior to the start of any future site disturbance we recommend additional consultation with the municipality, and other state resource agencies including the Maine Natural Areas Program and Maine Department of Environmental Protection in order to avoid unintended protected resource disturbance.

Please feel free to contact my office if you have any questions regarding this information, or if I can be of any further assistance.

Best regards,



Becca Settele
Wildlife Biologist

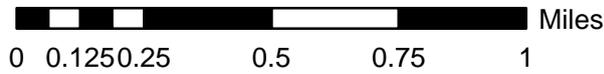


Environmental Review of Fish and Wildlife Observations and Priority Habitats

Project Name: Hampden, Monroe Road (Version 1)



Maine Department of
Inland Fisheries and Wildlife

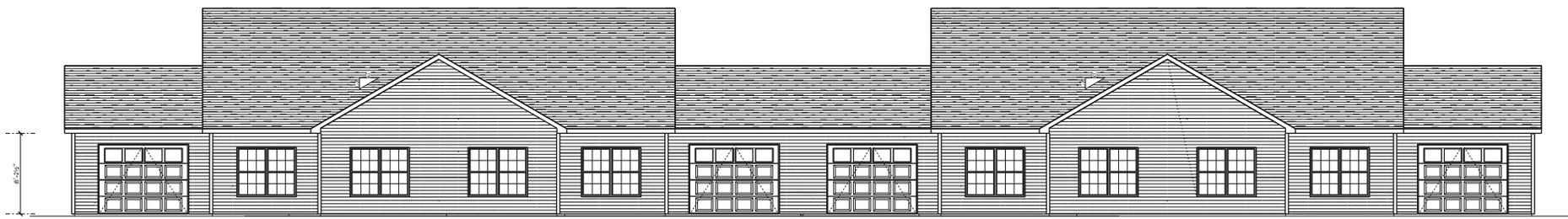


Projection: UTM, NAD83, Zone 19N

Date: 8/24/2019



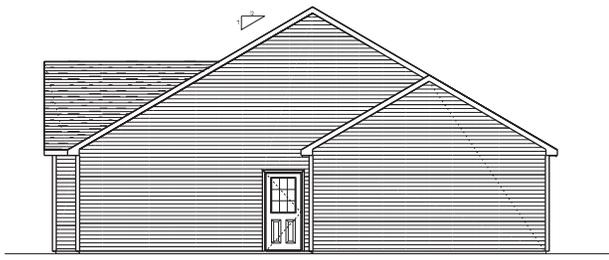
DISCLAIMER:
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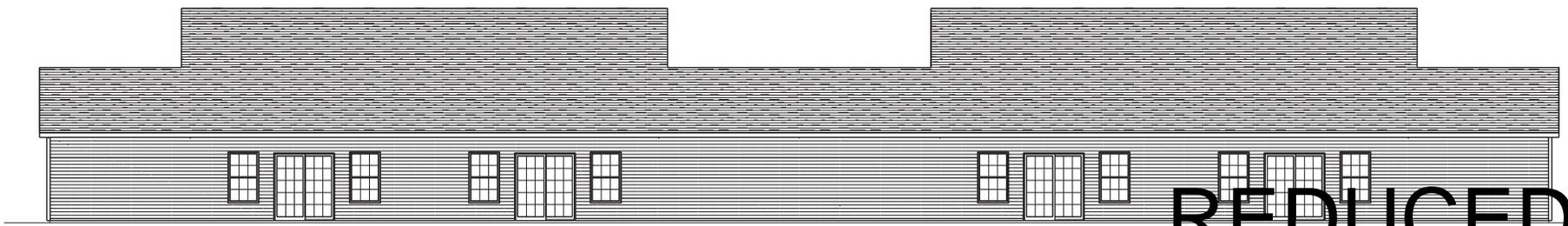
FRONT ELEVATION



LEFT ELEVATION



RIGHT ELEVATION



REAR ELEVATION

REDUCED

60 Fowler Rd. Orrington, ME PH: 207-825-3311 FAX: 207-825-3133	534 Main St. Corryville, ME PH: 207-285-1811 FAX: 207-285-1830	SCALE: 1/4" = 1'-0" DRAWN BY: MK DATE: February 26, 2016	APPROVED: REVISED:	PAGE # 1
		E3062		
NATE WICKLOW				