THE CROSSING AT VILLAGE CENTER
RESIDENTIAL DEVELOPMENT

NEW HAMPSHIRE FISH AND GAME ACT PERMIT CONDITIONS RELATED TO THREATENED AND ENDANGERED SPECIES

- ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES SHALL BE REPORTED IMMEDIATELY TO THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV. EMAIL SUBJECT LINE: NHB21-0870, PROJECT NAME, WILDLIFE SPECIES OBSERVATION. PHOTOGRAPHS SHALL BE PROVIDED FOR VERIFICATION AS FEASIBLE; AND
- THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.
- ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, AND INLET PROTECTION, CHECK DAMS, SEDIMENT TRAPS, AND SILT FENCE INSTALLED IN ACCORDANCE WITH ENV-WQ 1506.04, SHALL NOT CONTAIN WELDED PLASTIC, PLASTIC, OR MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH.

RECORD OWNERS:

TAX MAP 238 LOT 36
WALDRON HALEY REV LIV TRUST
14 SHAKESPEARE RD.
NASHUA, NH 03062

APPLICANT:

J&L TERRA HOLDINGS, INC.
79 EXETER ROAD
N. HAMPTON, N.H. 03862

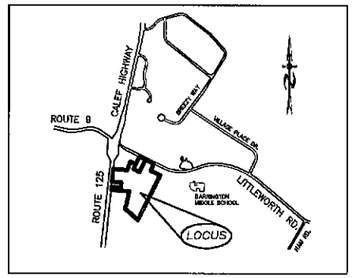
PLANNING BOARD
BARRINGTON, NH
PLANNING BOARD APPROVAL BLOCK
APPROVED
File Number 238-36-V-20-SR
Date 6/29/2023
Chairman

STATE OF NEW HAMPSHIRE JAMES P. GOVE 7/20/21 NO. 0061 CERTIFIED WETLAND SCIENTIST

STATE OF NEW HAMPSHIRE JAMES P. GOVE 7/19/21 NO. 004 PROFESSIONAL SOIL SCIENTIST

STATE OF NEW HAMPSHIRE CHRISTIAN O. SMITH No. 9900 PROFESSIONAL ENGINEER

a) AT THE NOVEMBER 17, 2020, PLANNING BOARD MEETING, THE BOARD GRANTED A CONDITIONAL USE PERMIT FOR MULTIFAMILY HOUSING.
b) AT THE NOVEMBER 17, 2020, PLANNING BOARD MEETING, THE BOARD APPROVED A WAIVER FROM SECTION 12.2.1 ROAD DESIGN STANDARD (SUB) REQUIREMENTS FOR THE ENTRANCE ROAD BEYOND 150 FEET TO THE END OF THE HAMMERHEAD.
c) AT THE JANUARY 19, 2021, PLANNING BOARD MEETING, THE BOARD APPROVED A WAIVER TO SECTION 4.7.7.3 - MINIMUM DRAINAGE PIPE COVER TO ALLOW LESS THAN 36"OF PIPE COVER.
d) THE STORMWATER MANAGEMENT PLAN RECEIVED 11/25/2020 IS PART OF THIS APPROVAL.



LOCATION MAP
1"=2000'

REVISED PER REVIEW	5-10-23
REVISED PER PB COMMENTS	11-24-20
REVISED PER ENG. REVIEW	1-7-21
REVISED PER NHDES AoT RMI	7-26-21
REVISED PER DES COMMENTS	2/10/23
REVISIONS:	DATE:

REQUIRED PERMITS
NHDES SUBDIVISION APPROVAL NUMBER: SA 2023032001
NHDES ALTERATION OF TERRIAN NUMBER: AoT-2003
NHDOT DRIVEWAY PERMIT: 06-027-574
WATER SUPPLY PERMIT: DR005911
ISDS CONSTRUCTION APPROVAL# eCA2023032016, eCA2023041019-eCA2023041024, eCA2023041101 & eCA2023041102

INDEX

WETLAND/SOIL CONSULTANT:

GOVE ENVIRONMENTAL SERVICES INC.
8 CONTINENTAL DRIVE,
BLDG 2 UNIT H
EXETER, NH 03833
1-603-778-0644

CIVIL ENGINEERS:

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

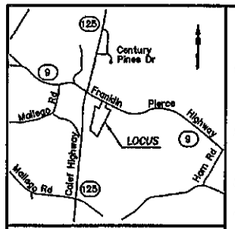
LAND SURVEYORS:

DAVID W. VINCENT, LLS
LAND SURVEYING SERVICES
PO BOX 1622
DOVER, NH 03821
1-603-664-5786

PLAN SET LEGEND

UTILITY POLE		OVERHEAD ELEC. LINE	OHE
DRAIN MANHOLE		UNDERGROUND ELEC. LINE	UGE
SEWER MANHOLE		DRAINAGE LINE	D
EXISTING LIGHT POLE		SEWER LINE	S
EXISTING CATCH BASIN		GAS LINE	G
PROPOSED CATCH BASIN		WATER LINE	W
EXIST. SPOT GRADE	98.48	STONE WALL	
PROP. SPOT GRADE	98.48	TREE LINE	
DOUBLE POST SIGN		ABUT. PROPERTY LINES	
SINGLE POST SIGN		EXIST. PROPERTY LINES	
STREET LIGHT		BUILDING SETBACK LINES	
TEST PIT	TP#1	EXIST. CONTOUR	100
4000 SF SEPTIC RESERVE AREA		PROP. CONTOUR	100
PROP. WELL W/ 75' PROTECTIVE RAD.		SOIL LINES	
		SILT FENCE OR EROSION CONTROL BERM	
		30k GAL. FIRE CISTERN	

NH-634 BARRINGTON VILLAGE PLACE



LOCATION PLAN
(NO SCALE)

WETLAND SCIENTIST CERTIFICATION

1. US Army Corps of Engineers Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Technical Report ERDC/EL TR-09-19 (Oct 2009).
2. Field Indicators of Hydric Soils in the United States, A Guide for Identifying and Delineating Hydric Soils, Version 7.0. United States Department of Agriculture (2010).
3. North American Digital Flora: National Wetland Plant List, Version 2.2.1 (2009).
4. Classification of Wetlands and Deepwater Habitats of the United States. USFW Manual FWS/OBS-79/31 (1979).

STATE OF NEW HAMPSHIRE
JAMES P. GOVE
No. 0051
CERTIFIED WETLAND SCIENTIST
4/24/2023

REFERENCE PLANS:

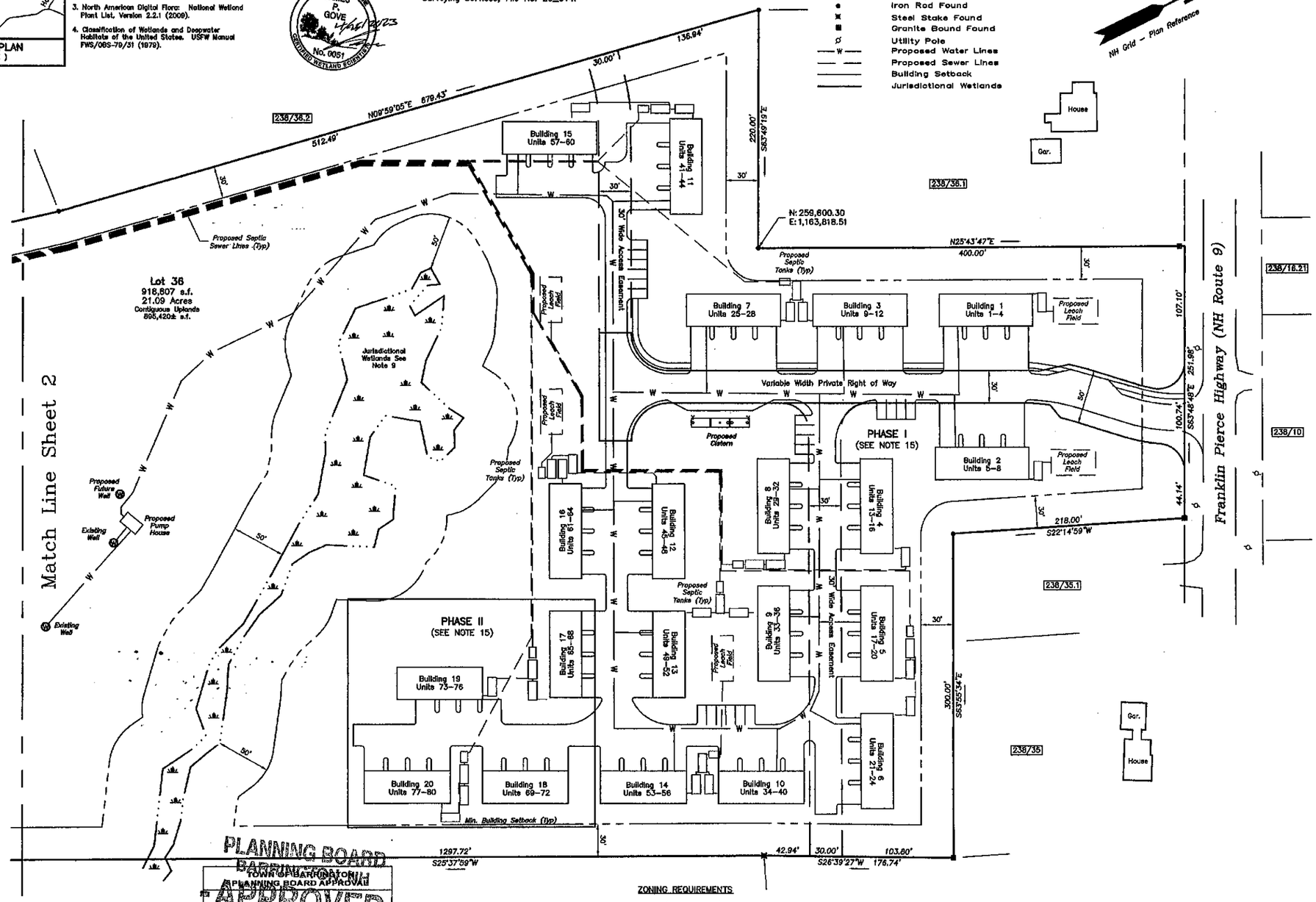
1.) "Lot Line Adjustment for Alan D. Haley & Waldron B. Haley Living Revocable Trust of 1998, Barrington, NH," dated February 2020, revised 03-19-20, prepared by Norway Plains Associates Inc., SCRD Plan #12137.

2.) "Condominium Site Plan Prepared for The Crossing at Village Center of Property in the Name of Waldron B. Haley Living Revocable Trust of 1998, of Tax Map 238 / Lot 36, Franklin Pierce Highway, (NH Route 9), Barrington, NH," dated September 3, 2020, revised 1/6/21, prepared by David W. Vincent, LLS Land Surveying Services, File No. 20_014.

Legend:

C2	See Curve Table
L1	See Length Table
SCRD	Strafford County Registry of Deeds
o	Iron Pipe Found
•	Iron Rod Found
✖	Steel Stake Found
■	Granite Bound Found
⌀	Utility Pole
—W—	Proposed Water Lines
— —	Proposed Sewer Lines
	Building Setback
	Jurisdictional Wetlands

NH Grid – Plan Reference



NOTES:

1.) OWNER OF RECORD: J & L TERRA HOLDINGS, INC.
79 EXETER ROAD
NORTH HAMPTON, NH 03862
SCRD BK 4937, PG 449

2.) PARCEL IS SHOWN AS LOT 36 ON THE TOWN OF BARRINGTON ASSESSOR'S MAP 238.

3.) EXISTING LOT AREA: 21.09 ACRES

4.) THIS PLAN DOES NOT REPRESENT A DETERMINATION OF TITLE AND THE PURPOSE OF THIS PLAN IS TO DEPICT THE PROPOSED IMPROVEMENTS OF UNITS 1 THROUGH 80 LOCATED ON THE SUBJECT PARCEL FOR CONDOMINIUM CONVERSION UTILIZING THE BOUNDARY INFORMATION DEPICTED ON THE PLAN REFERENCES. EACH UNIT IS TO BE SERVED BY COMMUNITY SEPTIC SYSTEM AND COMMUNITY WELLS.

5.) THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT, VISIBLE USES OF THE LAND; HOWEVER THIS DOES NOT CONSTITUTE THAT NO SUCH EASEMENTS EXIST.

6.) PARCEL IS LOCATED IN THE VILLAGE DISTRICT & WETLANDS PROTECTION DISTRICT OVERLAY (50' FROM EDGE OF JURISDICTIONAL WETLANDS).

7.) PLAN ERROR OF CLOSURE BETTER THAN 1:15,000.

8.) BASIS OF BEARING IS NH STATE PLANE (NAD83) AND VERTICAL DATUM IS NAVD88.

9.) PARCEL IS NOT LOCATED IN A FLOOD HAZARD ZONE AS DEPICTED ON FLOOD INSURANCE RATE MAP, NO. 33017C0305E, STRAFFORD COUNTY, NH, (ALL JURISDICTIONS), EFFECTIVE DATE: MAY 17, 2005.

10.) THE WETLAND AREAS SHOWN HEREON WERE FIELD DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. OF 8 CONTINENTAL DRIVE, BUILDING UNIT H, EXETER, NH 03833.

11.) NHDOT DRIVEWAY PERMIT: 06-027-574, DATED 11/01/2022.

12.) NHDES ALTERATION OF TERRAIN PERMIT: AoT-2003, DATED 08/20/2021.

13.) NHDES FINAL WELL SITING APPROVAL PERMIT: NHDES #DR005911, DATED 05/19/2022.

14.) NHDES SUBDIVISION APPROVAL PERMIT: #SA2023032001, DATED 03/20/2023.

15.) PHASE II – BUILDINGS 17-20 ARE TO BE BUILT UPON APPROVAL BY NHDES THAT MEET THE CRITERIA OF ADEQUATE WATER SUPPLY PER ADMINISTRATIVE RULE Env-Dw 305 FOR SMALL PRODUCTION WELLS FOR SMALL COMMUNITY WATER SYSTEMS.

16.) SEE SHEET 2 OF 2 FOR ROADWAY, ACCESS EASEMENT DETAILS, ABUTTERS AND PROPOSED LEACH FIELD LOCATIONS.

PLANNING BOARD
BARRINGTON, NEW HAMPSHIRE
TOWN OF BARRINGTON
PLANNING BOARD APPROVAL
APPROVED
File Number 238-36-V-20-SR
Date 6/29/2023
Chairman

ZONING REQUIREMENTS

ZONE (RESIDENTIAL)	VILLAGE DISTRICT
LOT AREA MIN.	80,000 S.F.
FRONTAGE	200 FT.
FRONT YARD	40 FT.
SIDE & REAR YARD	30 FT.
WETLAND BUFFER	50 FT.
MAX. BUILDING HEIGHT	35 FT.
MAX. BUILDING STORIES	2.5
MAX. LOT COVERAGE	40%

"I HEREBY CERTIFY THAT THIS SITE PLAN IS ACCURATE AND COMPLIES WITH RSA 356-B:20 I. UNITS 1 – 80 DEPICTED HEREON ARE "NOT YET BEGUN".

4/24/23 Kevin M. McEneaney
DATE: KEVIN M. McENEANEY LLS #681

SHEET 1 of 2

CONDOMINIUM SITE PLAN
PREPARED FOR J & L TERRA HOLDINGS, INC.
THE CROSSING AT VILLAGE CENTER
TAX MAP 238 LOT 36
FRANKLIN PIERCE HIGHWAY (NH ROUTE 9)
TOWN OF BARRINGTON
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DRAWN BY: DWV	FILE: 2495\DWGS\23-2495
SCALE: 1" = 50'	DATE: MARCH 2023

50 25 0 25 50 100 150 200

NO.	DATE	DESCRIPTION	BY	CHK
		REVISIONS		
1	4/24/23	REVISE NOTES	DWV	KMM

23-2495	CONDO SITE PLAN	
PROJECT NO	TYPE	FIELDBOOK & PAGES

STATE of NEW HAMPSHIRE
No. 681
KEVIN M. McENEANEY
LICENSED LAND SURVEYOR

McEneaney Survey Associates
of NEW ENGLAND
P.O. Box 681 – 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742-0911

SURVEYING – PLANNING – CONSULTING

Legend:

C2	See Curve Table
L1	See Length Table
SCRD	Strafford County Registry of Deeds
○	Iron Pipe Found
●	Iron Rod Found
✕	Steel Stake Found
■	Granite Bound Found
ø	Utility Pole
—W—	Proposed Water Lines
— —	Proposed Sewer Lines
——	Building Setback
——	Jurisdictional Wetlands

Length Table:

LINE	BEARING	DISTANCE
L1	N64°03'49"W	193.93'
L2	N79°26'30"W	23.57'
L3	N09°59'05"E	30.00'
L4	S79°26'30"E	23.87'
L5	S64°03'49"E	193.93'
L6	S25°56'11"W	30.00'
L7	N25°56'11"E	80.00'
L8	S64°03'49"E	394.91'
L9	S26°39'27"W	30.00'
L10	N64°03'49"W	394.53'
L11	S63°48'48"E	100.74'
L12	S43°13'01"W	43.66'
L13	S75°44'53"W	15.68'
L14	S25°56'11"W	329.94'
L15	S25°56'11"W	30.00'
L16	N64°03'49"W	100.00'
L17	N25°56'11"E	30.00'
L18	N25°56'11"E	329.94'
L19	N13°37'39"E	28.83'
L20	N43°13'01"E	43.66'

Curve Table:

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	36.23'	135.00'	15°22'41"	N71°45'09"W	36.13'
C2	44.29'	165.00'	15°22'41"	S71°45'09"E	44.15'
C3	39.27'	25.00'	90°00'00"	S19°03'49"E	35.36'
C4	39.27'	25.00'	90°00'00"	S70°56'11"W	35.36'
C5	37.13'	25.00'	85°05'16"	S73°38'34"W	33.81'
C6	37.01'	175.00'	12°07'04"	S37°09'29"W	36.94'
C7	15.67'	175.00'	5°07'49"	S40°39'06"W	15.66'
C8	26.81'	185.00'	8°18'07"	S30°05'15"W	26.78'
C9	54.98'	35.00'	90°00'00"	S19°03'49"E	49.50'
C10	54.98'	35.00'	90°00'00"	N70°56'11"E	49.50'
C11	16.51'	215.00'	4°25'31"	N28°08'57"E	16.50'
C12	22.81'	225.00'	5°48'27"	N40°18'47"E	22.80'
C13	15.64'	125.00'	7°10'09"	N39°37'56"E	15.63'
C14	43.57'	25.00'	99°51'40"	N13°52'56"W	38.26'

ABUTTERS

238-10
JASON A. & CHRISTINA M. BARROWS
545 FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825

238-16.21
BVP HOMEOWNERS ASSOCIATION
C/O CORREY PIPER
26 VILLAGE PLACE DRIVE
BARRINGTON, NH 03825

238/33
VIRTUOUS REALTY LLC
607 CALEF HIGHWAY
BARRINGTON, NH 03825
SCRD 5078/264

238/34
CAUDIELLO FAMILY REVOCABLE TRUST OF 2015
528 FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
SCRD 4311/926

238/35
MEGAN FEELY
534 FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
SCRD 4968/604

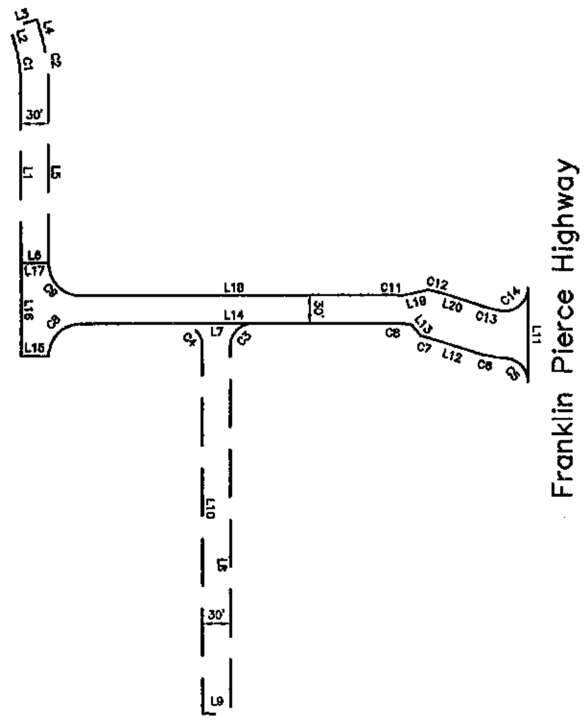
238/35-1
GLEN & WENDI WILKINSON
540 FRANKLIN PIERCE HIGHWAY
BARRINGTON, NH 03825
SCRD 5057/172

238/36.1
ALAN D. HALEY
1011 ANDOVER ROAD
BALTIMORE, MD 21218
SCRD 4693/558

238/36.2
PETER JACOBS
4631 N MOUNTAIN VIEW DRIVE
BOSIE, ID 83704
SCRD 5042/603

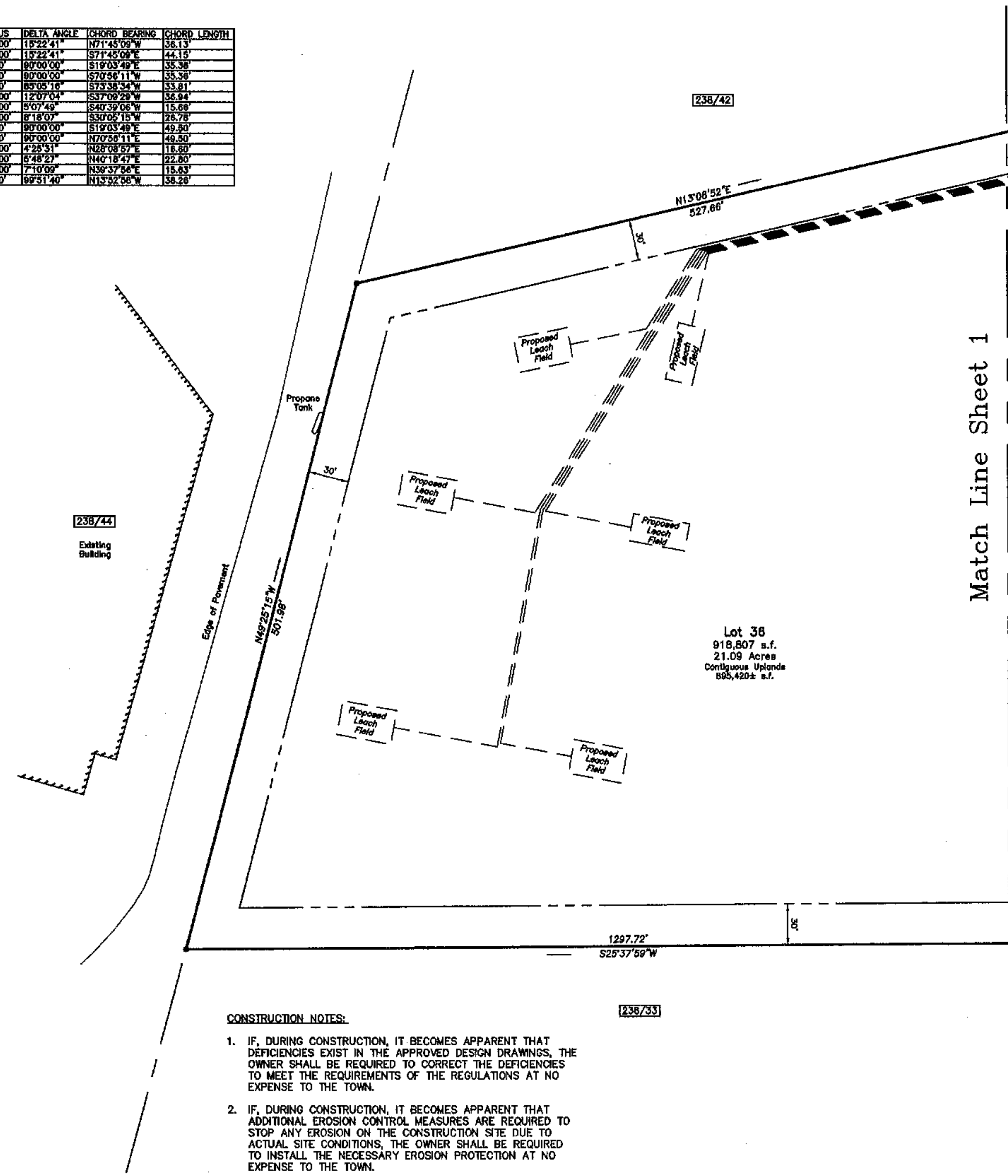
238/42
A. WILLAIM & JULES D'ANTILIO
PO BOX 474
BARRINGTON, NH 03825
SCRD 3129/837

238/44
VIRTUOUS REALTY INC.
607 CALEF HIGHWAY #200
BARRINGTON, NH 03825
SCRD 2948/332



Roadway & Easement Details

1"=100'



STATE OF NEW HAMPSHIRE JAMES P. GOVE No. 0051 CERTIFIED WETLAND SCIENTIST
4/25/2023

SHEET 2 of 2

CONSTRUCTION NOTES:

1. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE OWNER SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN.
2. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.
3. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
4. IN ACCORDANCE WITH TOWN REGULATIONS AND RSA 676:13, ALL IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED, COMPLETED, INSPECTED AND APPROVED BY THE TOWN OF BARRINGTON PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
5. IN ACCORDANCE WITH BARRINGTON SITE PLAN REVIEW REGULATIONS AND RSA 676:12, ALL OFF-SITE IMPROVEMENTS SPECIFIED ON THESE SITE PLANS SHALL BE CONSTRUCTED, COMPLETED, INSPECTED AND APPROVED BY THE TOWN OF BARRINGTON (AND/OR THE NHDOT, IF APPLICABLE) PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

"I HEREBY CERTIFY THAT THIS SITE PLAN IS ACCURATE AND COMPLIES WITH RSA 356-B:20 I.
UNITS 1 - 80 DEPICTED HEREON ARE "NOT YET BEGUN".

4/24/23 [illegible]
DATE: KEVIN M. McENEANEY LLS #661

PLANNING BOARD BARRINGTON, NH
TOWN OF BARRINGTON PLANNING BOARD APPROVAL
APPROVED
File Number 238-36-V-20-SR
Date 6/29/2023
Chairman [illegible]

1	4/24/23	REVISE NOTES	DWV	KMM
NO.	DATE	DESCRIPTION	BY	CHK
REVISIONS				

23-2495	CONDO SITE PLAN	
PROJECT NO	TYPE	FIELDBOOK & PAGES

CONDOMINIUM SITE PLAN
PREPARED FOR J & L TERRA HOLDINGS, INC.
THE CROSSING AT VILLAGE CENTER
TAX MAP 238 LOT 36
FRANKLIN PIERCE HIGHWAY (NH ROUTE 9)
TOWN OF BARRINGTON
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DRAWN BY: DWV	FILE: 2495\DWGS\23-2495
SCALE: 1" = 50'	DATE: MARCH 2023

50 25 0 25 50 100 150 200

STATE OF NEW HAMPSHIRE No. 661 KEVIN M. McENEANEY LICENSED LAND SURVEYOR

McENEANEY SURVEY ASSOCIATES of NEW ENGLAND
P.O. Box 681 - 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742-0911

SURVEYING - PLANNING - CONSULTING

Legend:

C2	See Curve Table
L1	See Length Table
SCRD	Strafford County Registry of Deeds
o	Iron Pipe Found
●	Iron Rod Found
⌧	Steel Stake Found
▩	Granite Bound Found
∅	Utility Pole
——-——	Building Setback
——····——	Jurisdictional Wetlands
——D——	Culvert
∞∞∞∞∞	Stone Wall

Access Easement Line Table

LINE	BEARING	DISTANCE
L1	N04°06'02"E	76.39'
L2	N79°43'47"E	18.91'
L3	S16°32'35"E	163.61'
L4	N86°26'23"W	154.27'

Access Easement Curve Table

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE
C1	22.99'	40.00'	32°55'46"
C2	90.00'	80.00'	64°27'46"

Reference:

"Lot Line Adjustment for Alan D. Haley & Waldron B. Haley Living Revocable Trust of 1998, Barrington, NH," dated February 2020, revised 03-19-20, preparde by Norway Plains Associates Inc., SCRD Plan #12137.

For Registry of Deeds Purposes

Abutters

238-16.21
BVP Homeowners Association
c/o Correy Piper
26 Village Place Drive
Barrington, NH 03825

238/33 & 34
Caudiello Family Revocable Trust of 2015
528 Franklin Pierce Highway
Barrington, NH 03825
SCRD 4311-928

238/35 & 35-1
Richard & Victoria H. Spindle
528 Franklin Pierce Highway
Barrington, NH 03825
SCRD 2989-535

238/36-1
Alan D. Haley
1011 Andover Road
Baltimore, MD 212216
SCRD 4693-558

238/37
Lawrence G. Haley
2908 French Place
Austin, TX 78722
SCRD 2636-698

238/38
574 Franklin Pierce Highway LLC
574 Franklin Pierce Highway
Barrington, NH 03825
SCRD 4526-469

238/40
Irving Oil Properties NH Corp
PO Box 868
Calais, ME 04619
SCRD 3701-566

238/41
Max Winkler
559 Calef Highway
Barrington, NH 03825
SCRD 3870-263

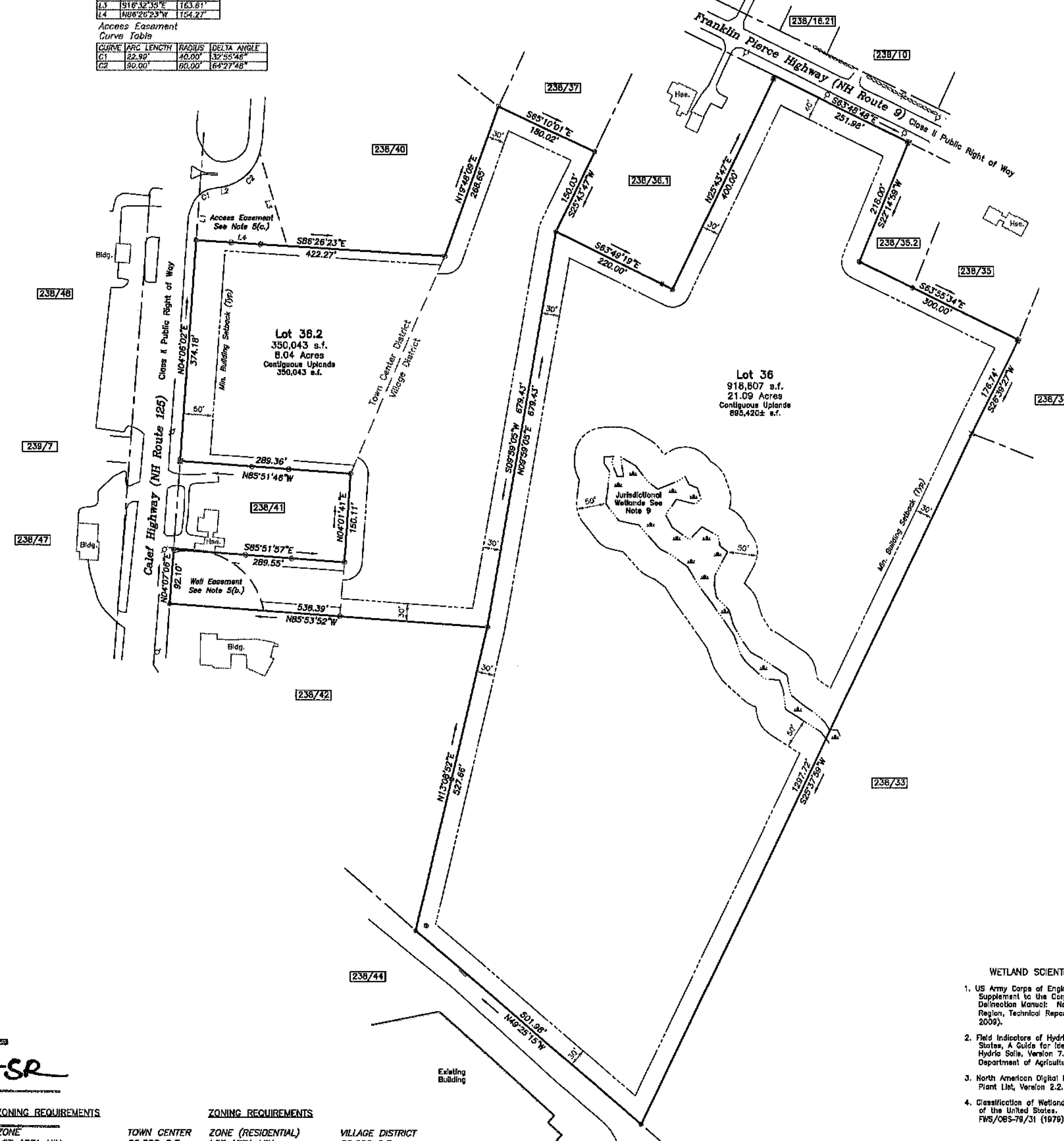
238/42
A. William & Jules D'Antilio
PO Box 474
Barrington, NH 03825
SCRD 3129-837

238/44
Virtuous Realty Inc.
607 Calef Highway #200
Barrington, NH 03825
SCRD 2948-332

238/47
Lewis Palosky
49 Ceres Street
Portsmouth, NH 03801

238/48
Philip A. & Christine L. Amazeen
538 Calef Highway
Barrington, NH 03825
SCRD 3612-324

239/7
Town Center Properties LLC
PO Box 727
Dover, NH 03821



NH Grid – Plan Reference

Notes:

1.) This plan does not represent a determination of title and the purpose of this plan is to subdivide the subject parcel into two parcels utilizing the boundary information depicted on the plan reference. Each lot is served by individual septic system and private well.

2.) Plan Error of Closure Better Than 1:15,000.

3.) Parcel is shown as Lot 36.1 on the Town of Barrington Assessor's Map 238.

4.) Parcel is located in the Town Center District, Village District & Wetlands Protection District Overlay (50' from edge of jurisdictional wetlands).

5.) Owner of Record: Waldron B. Haley Living Revocable Trust of 1998
14 Shakespeare Road
Nashua,m NH 03062-2431
SCRD Bk 2068, Pg 247

a.) Parcel is subject to the terms and restrictions to the State of New Hampshire as described in SCRD Bk 850, Pg 497.

b.) Parcel is subject to a Protective Well Radius as described in SCRD Bk 1903, Pg 516.

c.) Parcel has the benefit of an access easement as described in SCRD Bk 4449, Pg 335.

6.) This plan does not show any unrecorded or unwritten easements which may exist. A reasonable and diligent attempt has been made to observe any apparent, visible uses of the land; however this does not constitute that no such easements exist.

7.) Parcel is not located in a Flood Hazard Zone as depicted on Flood Insurance Rate Map, No. 33017C0305E, Strafford County, NH, (All Jurisdictions), Effective Date: May 17, 2005.

8.) Existing Lot Area: 29.13 Acres
Proposed Lot 36: 21.09 Acres
Proposed Lot 36.2: 8.04 Acres

9.) The wetland areas shown hereon were field delineated by Gove Environmental Services, Inc., of 8 Continental Drive, Building #2, Unit H, Exeter, NH.

10.) NHDOT Driveway Permit: Pending.

11.) Required erosion control measures shall be installed prior to disturbance of the sites surface and shall be maintained throughout the completion of all construction. If it becomes apparent that additional erosion control measures are required to stop any erosion on the construction site due to actual conditions, the owner shall be required to install the necessary erosion protection at no expense to the Town.

STATE OF NEW HAMPSHIRE
LICENSED LAND SURVEYOR
No. 821
DAVID W. VINCENT
SIGNATURE

WETLAND SCIENTIST CERTIFICATION

1. US Army Corps of Engineers Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Technical Report ERDC/EL TR-09-19 (Oct 2009).
2. Field Indicators of Hydric Soils in the United States, A Guide for Identifying and Delineating Hydric Soils, Version 7.0. United States Department of Agriculture (2010).
3. North American Digital Flora: National Wetland Plant List, Version 2.2.1 (2009).
4. Classification of Wetlands and Deepwater Habitats of the United States. USFW Manual FWS/OBS-79/31 (1979).

PLANNING BOARD
BARRINGTON, NH
APPROVED

TOWN OF BARRINGTON
PLANNING BOARD APPROVAL

File Number 238-36-V-20-SR

Date 6/29/2023

Chairman [illegible]

The subdivision regulations of the Town of Barrington are part of this plat and approval of this plat is contingent upon completion of said requirements of said subdivision regulations, excepting only modifications made in writing by the boards and attached hereto.

ZONING REQUIREMENTS

ZONE	TOWN CENTER
LOT AREA MIN.	20,000 S.F.
FRONTAGE	40 FT.
FRONT YARD ROUTE 125	50 FT.
FRONT YARD	20 FT.
SIDE & REAR YARD	15 FT.
WETLAND BUFFER	50 FT.
MAX. BUILDING HEIGHT	40 FT.
MAX. BUILDING STORIES	3
MAX. LOT COVERAGE	80%

ZONING REQUIREMENTS

ZONE (RESIDENTIAL)	VILLAGE DISTRICT
LOT AREA MIN.	80,000 S.F.
FRONTAGE	200 FT.
FRONT YARD	40 FT.
SIDE & REAR YARD	30 FT.
WETLAND BUFFER	50 FT.
MAX. BUILDING HEIGHT	35 FT.
MAX. BUILDING STORIES	2.5
MAX. LOT COVERAGE	40%

Waldron B. Haley — Date

NO.	DATE	DESCRIPTION	BY
4			
3			
2			
1			

MINOR SUBDIVISION PLAN
PREPARED FOR
J & L TERRA HOLDINGS INC.
OF PROPERTY IN THE NAME OF
WALDRON B. HALEY REVOCABLE LIVING TRUST OF 1998
OF
TAX MAP 238 / LOT 36
LOCATED AT
CALEF HIGHWAY (NH ROUTE 125) & FRANKLIN PIERCE HIGHWAY (NH ROUTE 9)
COUNTY OF STRAFFORD
BARRINGTON, NH

100 0 50 100 200 400

SCALE: 1"= 100' *DATE: SEPTEMBER 3, 2020*

DAVID W. VINCENT, LLS
LAND SURVEYING SERVICES
PO BOX 1622
DOVER, NH 03821
TEL/FAX (603) 664-5786
www.landsurveyingservices.net

DWG NAME: 014sub FB: DC

20_014

Legend:

C2	See Curve Table
L1	See Length Table
SCRD	Strafford County Registry of Deeds
○	Iron Pipe Found
●	Iron Rod Found
✕	Steel Stake Found
▩	Granite Bound Found
⌀	Utility Pole
——-—-—	Building Setback
——···——	Jurisdictional Wetlands
——D——	Culvert
∞∞∞∞	Stone Wall

Access Easement Line Table

LINE	BEARING	DISTANCE
L1	N04°06'02"E	76.39'
L2	N79°43'47"E	18.91'
L3	S16°32'35"E	163.61'
L4	N86°26'23"W	154.27'

Access Easement Curve Table

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE
C1	22.99'	40.00'	32°55'46"
C2	90.00'	80.00'	64°27'48"

Abutters

238-18.21
BVP Homeowners Association
c/o Correy Piper
26 Village Place Drive
Barrington, NH 03825

238/33 & 34
Gaudiello Family Revocable Trust of 2015
528 Franklin Pierce Highway
Barrington, NH 03825
SCRD 4311-926

238/35 & 35-1
Richard & Victoria H. Spinola
528 Franklin Pierce Highway
Barrington, NH 03825
SCRD 2989-535

238/36-1
Alan D. Haley
1011 Andover Road
Baltimore, MD 212218
SCRD 4693-558

238/37
Lawrence G. Haley
2905 French Place
Austin, TX 78722
SCRD 2536-698

238/38
574 Franklin Pierce Highway LLC
574 Franklin Pierce Highway
Barrington, NH 03825
SCRD 4528-469

238/40
Irving Oil Properties NH Corp
PO Box 868
Calais, ME 04619
SCRD 3701-566

238/41
Max Winkler
559 Calef Highway
Barrington, NH 03825
SCRD 3870-283

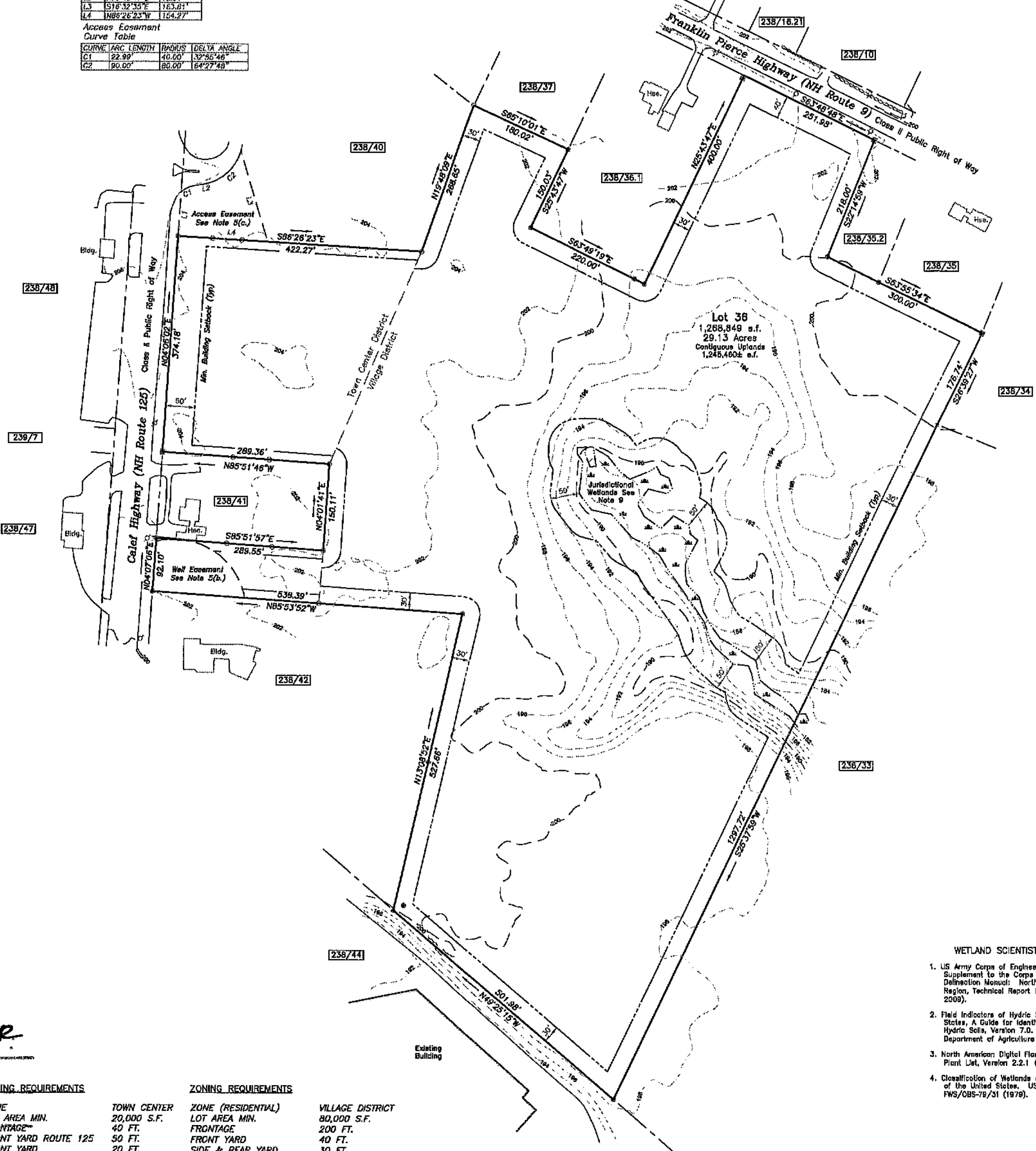
238/42
A. William & Jules D'Antilio
PO Box 474
Barrington, NH 03825
SCRD 3129-837

238/44
Virtuous Realty Inc.
607 Calef Highway #200
Barrington, NH 03825
SCRD 2948-332

238/47
Lewis Polosky
49 Ceres Street
Portsmouth, NH 03801

238/48
Philip A. & Christine L. Amazeen
538 Calef Highway
Barrington, NH 03825
SCRD 3612-324

239/7
Town Center Properties LLC
PO Box 727
Dover, NH 03821



Reference:

"Lot Line Adjustment for Alan D. Haley & Waldron B. Haley Living Revocable Trust of 1998, Barrington, NH," dated February 2020, revised 03-19-20, preparde by Norway Plains Associates Inc., SCRD Plan #12137.

Notes:

1.) This plan does not represent a determination of title and the purpose of this plan is to subdivide the subject parcel into two parcels utilizing the boundary information depicted on the plan reference. Each lot is served by individuct septic system and private well.

2.) Plan Error of Closure Better Than 1:15,000.

3.) Parcel is shown as Lot 36.1 on the Town of Barrington Assessor's Map 238.

4.) Parcel is located in the Town Center District, Village District & Wetlands Protection District Overlay (50' from edge of jurisdictional wetlands).

5.) Owner of Record: Waldron B. Haley Living Revocable Trust of 1998
14 Shakespeare Road
Nashua,m NH 03062-2431
SCRD Bk 2068, Pg 247

a.) Parcel is subject to the terms and restrictions to the State of New Hampshire as described in SCRD Bk 850, Pg 497.

b.) Parcel is subject to a Protective Well Radius as described in SCRD Bk 1903, Pg 516.

c.) Parcel has the benefit of an access easement as described in SCRD Bk 4449, Pg 335.

6.) This plan does not show any unrecorded or unwritten easements which may exist. A reasonable and diligent attempt has been made to observe any apparent, visible uses of the land; however this does not constitute that no such easements exist.

7.) Parcel is not located in a Flood Hazard Zone as depicted on Flood Insurance Rate Map, No. 33017C0305E, Strafford County, NH, (All Jurisdictions), Effective Date: May 17, 2005.

8.) Existing Lot Area: 29.13 Acres

9.) The wetland areas shown hereon were field delineated by Gove Environmental Services, Inc., of 8 Continental Drive, Building #2, Unit H, Exeter, NH.

10.) Vertical & Horizontal datum is based upon the plan reference.

PLANNING BOARD
BARRINGTON, NH
APPROVED
File Number 238-36-V-20-SR
TOWN OF BARRINGTON
PLANNING BOARD APPROVAL
Date 6/29/2023
Chairman [illegible]

The subdivision regulations of the Town of Barrington are part of this plat and approval of this plat is contingent upon completion of said requirements of said subdivision regulations, excepting only modifications made in writing by the boards and attached hereto.

ZONING REQUIREMENTS

ZONE	TOWN CENTER
LOT AREA MIN.	20,000 S.F.
FRONTAGE	40 FT.
FRONT YARD ROUTE 125	50 FT.
FRONT YARD	20 FT.
SIDE & REAR YARD	15 FT.
WETLAND BUFFER	50 FT.
MAX. BUILDING HEIGHT	40 FT.
MAX. BUILDING STORIES	3
MAX. LOT COVERAGE	80%

ZONING REQUIREMENTS

ZONE (RESIDENTIAL)	VILLAGE DISTRICT
LOT AREA MIN.	80,000 S.F.
FRONTAGE	200 FT.
FRONT YARD	40 FT.
SIDE & REAR YARD	30 FT.
WETLAND BUFFER	50 FT.*
MAX. BUILDING HEIGHT	35 FT.
MAX. BUILDING STORIES	2.5
MAX. LOT COVERAGE	40%

WETLAND SCIENTIST CERTIFICATION

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3. North American Digital Flora: National Wetland Plant List, Version 2.2.1 (2009).
4. Classification of Wetlands and Deepwater Habitats of the United States. USFW Manual FWS/OBS-79/31 (1979).

STATE OF NEW HAMPSHIRE
No. 821
DAVID W. VINCENT
LICENSED LAND SURVEYOR

NO.	DATE	DESCRIPTION	BY
4			
3			
2			
1			

EXISTING CONDITIONS PLAN
PREPARED FOR
J & L TERRA HOLDINGS INC.
OF PROPERTY IN THE NAME OF
WALDRON B. HALEY REVOCABLE LIVING TRUST OF 1998
OF
TAX MAP 238 / LOT 36
LOCATED AT
CALEF HIGHWAY (NH ROUTE 125) & FRANKLIN PIERCE HIGHWAY (NH ROUTE 9)
COUNTY OF STRAFFORD
BARRINGTON, NH

100 0 50 100 200 400

SCALE: 1"= 100' DATE: SEPTEMBER 3, 2020

DAVID W. VINCENT, LLS
LAND SURVEYING SERVICES
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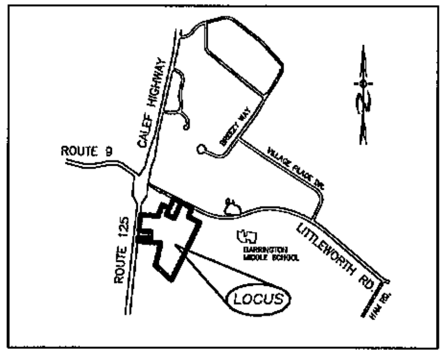
DOVER, NH 03821
TEL/FAX (603) 664-5786
www.landsurveyingservices.net

DWG NAME: 014xcon | FB: DC

20_014



LOCATION MAP
1"=2000'

ZONING REQUIREMENTS
ZONE: VILLAGE DISTRICT (VD)
MIN. FRONTAGE = 200'
MIN. LOT SIZE = 20,000 SF
MIN. WIDTH = 75' @ FRONT SETBACK
MIN. PERIMETER BUFFER = 100'
MAX. HEIGHT = 35'

BUILDING SETBACKS:

FRONT	40'
SIDE & REAR	30'
WETLANDS	50'

LEACH FIELD SETBACKS

POORLY DRAINED SOILS	50'
VERY POORLY DRAINED SOILS	75'

PARKING REQUIREMENTS:

90' STALL SIZE 9'x18'
RESIDENTIAL USE: 1 SP/UNIT = 80
+ 1 / 3 UNIT = 26
TOTAL REQUIRED = 106

PARKING SPACES SUPPLIED
1 INTERIOR/UNIT = 80
2 EXTERIOR/UNIT = 160
DESIGNATED VISITOR = 20
SPACES PROVIDED = 260

TOWN NOTES
IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DESIGN DRAWINGS, THE CONTRACTOR SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE TOWN

REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OF THE SITE AND SHALL BE MAINTAINED THROUGH THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE DUE TO ACTUAL SITE CONDITIONS, THE OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE TOWN.

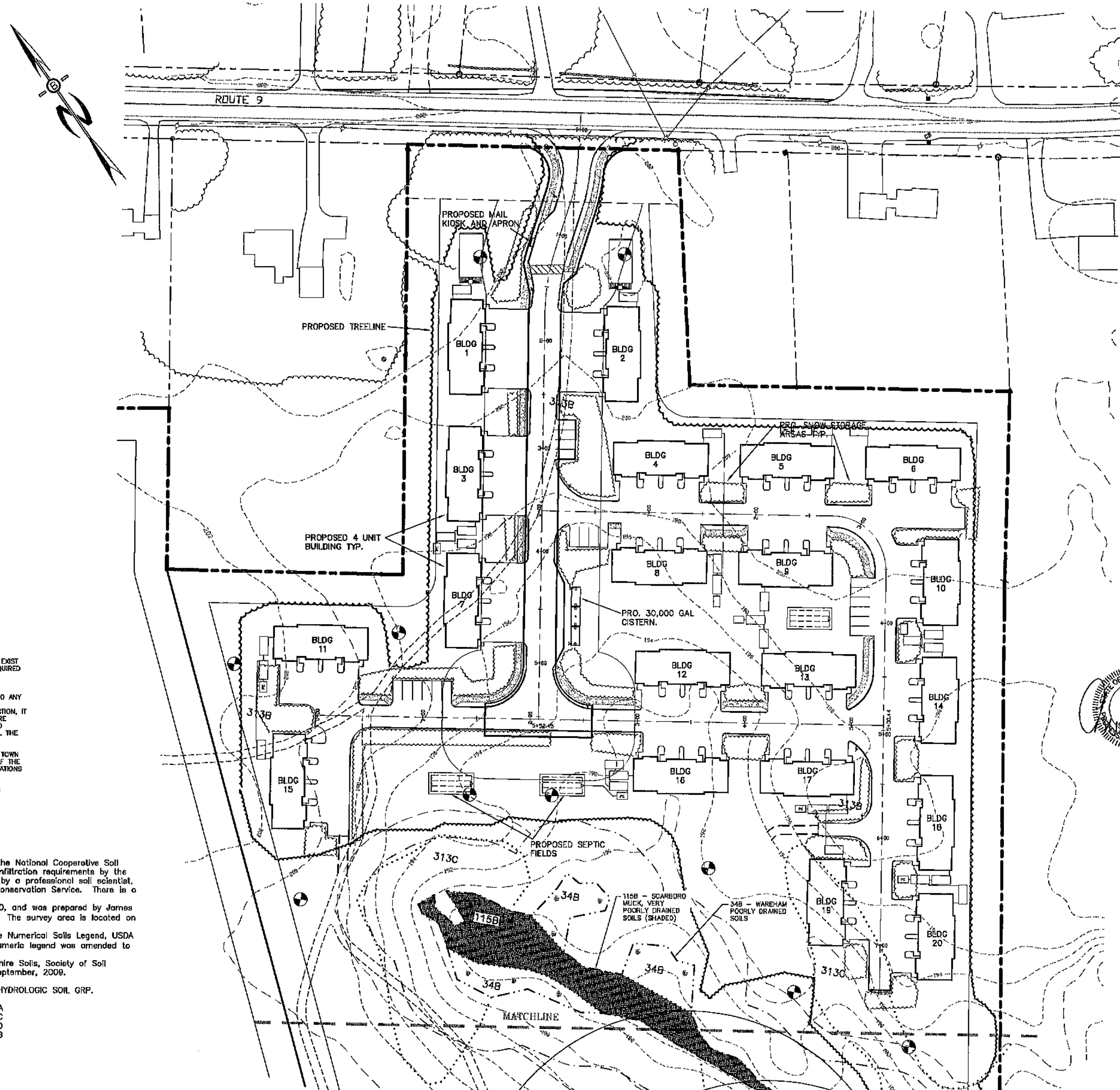
ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO TOWN OF BARRINGTON SUBDIVISION REGULATIONS AND THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.

SNOW MUST BE REMOVED IF FOUND TO IMPEDE PARKING OR EXCEEDS STORAGE CAPACITY.

This map product is within the technical standards of the National Cooperative Soil Survey. It is a special purpose product, intended for infiltration requirements by the NH DES Alteration of Terrain Bureau. It was produced by a professional soil scientist, and is not a product of the USDA Natural Resources Conservation Service. There is a report that accompanies this map.
The site specific soil survey was produced 21 May 2020, and was prepared by James P. Gove, CSS # 004, Gove Environmental Services, Inc. The survey area is located on Rtes 9 and 125 in Barrington, NH.
Soils were identified with the New Hampshire State-wide Numerical Soils Legend, USDA NRCS, Durham, NH. Issue # 10, January 2011. The numeric legend was amended to identify the correct soil components of the complex.
Hydrologic Soil Group from Ksat Values for New Hampshire Soils, Society of Soil Scientists of New England, Special Publication No. 5, September, 2009.

SSSM SYM.	SSS MAP NAME	HISS SYM.	HYDROLOGIC SOIL GRP.
26	Windsor loamy sand	111	A
34	Wareham fine sandy loam	511	C
115	Scarboro muck	611	D
313	Deerfield loamy sand	311	B

SLOPE PHASE:
0-8%=B, 8-15%=C, 15-25%=D, 25%+=E



PREPARED FOR:

J&L TERRA HOLDINGS, INC.
79 EXETER ROAD
N. HAMPTON, N.H. 03862

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

NOTES
1. UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN LOCATED FROM FIELD OBSERVATIONS AND THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. BEALS ASSOCIATES OR ANY OF THEIR EMPLOYEES TAKE NO RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES OR UTILITIES NOT SHOWN, THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND UTILITIES OR STRUCTURES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 1-888-DIG-SAFE
2. THIS PLAN HAS BEEN PREPARED FOR MUNICIPAL AND STATE APPROVALS AND FOR CONSTRUCTION BASED ON DATA OBTAINED FROM ON-SITE FIELD SURVEY AND EXISTING MUNICIPAL RECORDS. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCY FROM DATA AS SHOWN ON THE DESIGN PLANS. THIS INCLUDES ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE, FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN ITEMS OF THIS PLAN/PLAN SET, OR BETWEEN THE PLANS AND ON-SITE CONDITIONS MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED.
3. ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
4. ALL ROAD AND DRAINAGE WORK TO CONFORM TO TOWN STANDARD SPECIFICATIONS FOR CONSTRUCTION.
5. ALL PROPOSED SIGNS SHALL CONFORM TO THE TOWN ZONING REGULATIONS.
6. PROJECT IS BASED ON USGS DATUM NAVD 1988, REFERENCE BENCHMARK:
7. THE LANDOWNER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL WETLAND REGULATIONS, INCLUDING ANY PERMITTING AND SETBACK REQUIREMENTS REQUIRED UNDER THESE REGULATIONS.
8. SEE DETAIL SHEET FOR STANDARD CONSTRUCTION NOTES AND DETAILS.
9. DISTURBANCE IS OVER 100,000 SQ. FT. ALTERATION OF TERRIAN PERMIT RSA 485:A-17 IS REQUIRED.
10. REQUESTED WAIVERS:
SECT. 12.2.1 ROAD DESIGN STANDARDS - (RIGHT OF WAY WIDTH)
SECT. 4.7.7.3 MIN. PIPE COVER - (30" COVER)

BARRINGTON ORDINANCE NET DENSITY

LOT AREA 918807 SF or 21.1 ACRES
- 80,000 SF 1ST UNIT = 838807 SF
838807/10,000/UNIT = 83.9
TOTAL UNIT COUNT = 84.9

STATE OF NEW HAMPSHIRE
CHRISTIAN O. SMITH
No. 9900
PROFESSIONAL ENGINEER
[illegible]

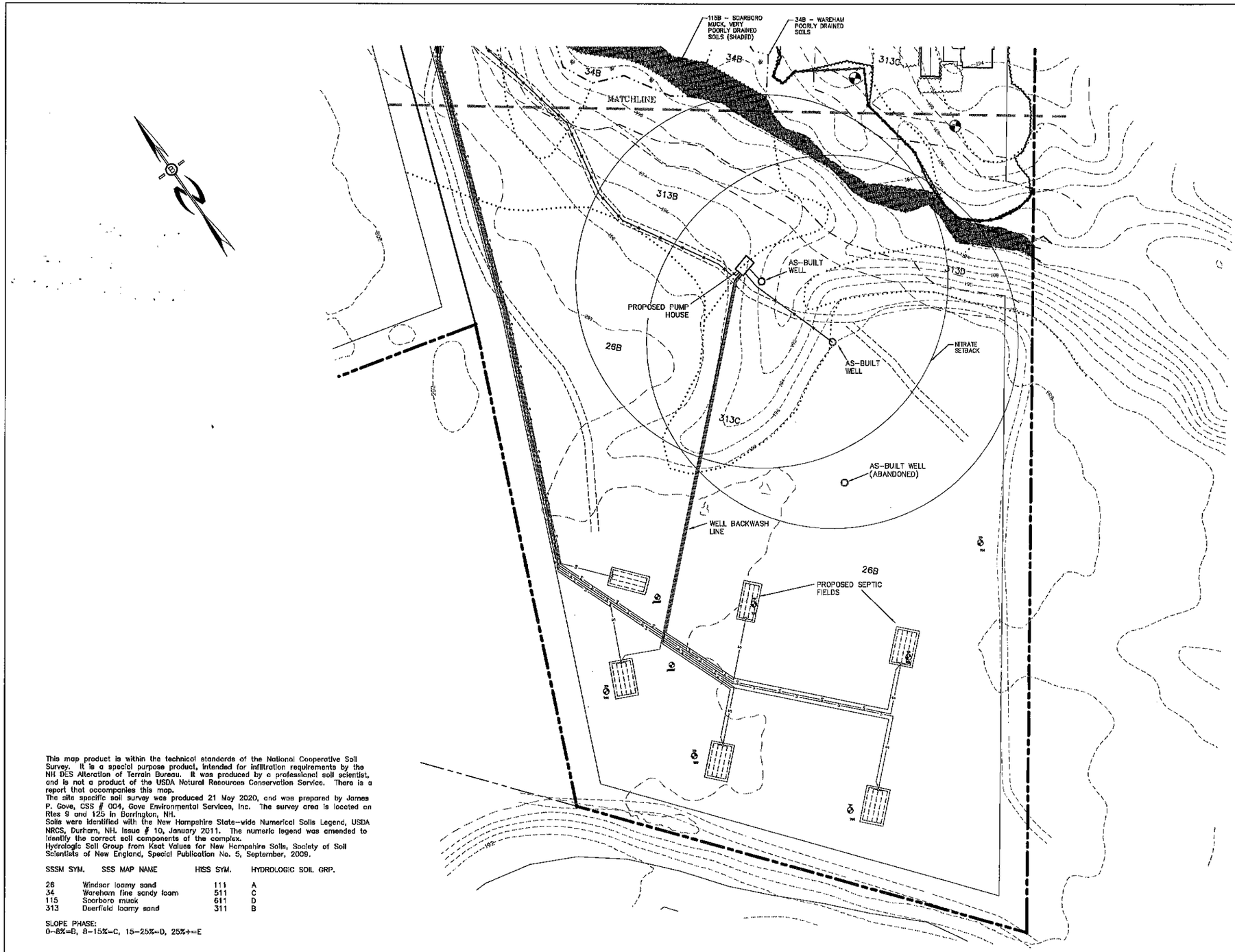
BARRINGTON, NH
APPROVED
PLANNING BOARD APPROVAL BLOCK
File Number 238-36-V-20-SR
Date 6/29/2023
Chairman [illegible]

REVISIONS:	DATE:
REVISED PER DES COMMENTS	2/10/23
REVISED PER DES COMMENTS	11/3/22
REVISED PER ENG. REVIEW	1-7-21
REVISED PER PB COMMENTS	11-24-20

SITE PLAN

PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

DATE:	JULY 2020	SCALE:	1"=50'
PROJ. NO:	NH-1263	SHT. NO.	5 OF 15



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SLOPE PHASE:
0-8%=B, 8-15%=C, 15-25%=D, 25%+=E

PREPARED FOR:

J&L TERRA HOLDINGS, INC.
79 EXETER ROAD
N. HAMPTON, N.H. 03862

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
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STRATHAM, N.H. 03885
PHONE: 603-583-4860,
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NOTES:
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3. ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
4. ALL ROAD AND DRAINAGE WORK TO CONFORM TO TOWN OF BARRINGTON STANDARD SPECIFICATIONS FOR CONSTRUCTION.
5. ALL PROPOSED SIGNS SHALL CONFORM TO THE TOWN OF BARRINGTON ZONING REGULATIONS.
6. PROJECT IS BASED ON USGS DATUM NAVD 1988. REFERENCE BENCHMARK:
7. THE LANDOWNER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL WETLAND REGULATIONS, INCLUDING ANY PERMITTING AND SETBACK REQUIREMENTS REQUIRED UNDER THESE REGULATIONS.
8. SEE DETAIL SHEET FOR STANDARD CONSTRUCTION NOTES AND DETAILS.
9. DISTURBANCE OVER 100,000 SQ. FT. ALTERATION OF TERRIAN PERMIT RSA 485; A-17 REQUIRED.

STATE OF NEW HAMPSHIRE
CHRISTIAN O. SMITH
No. 9900
PROFESSIONAL ENGINEER

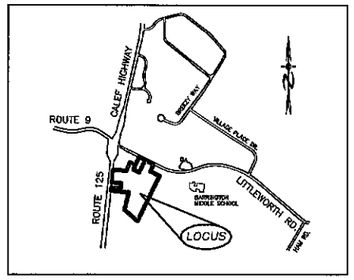
PLANNING BOARD
BARRINGTON, NH
PLANNING BOARD APPROVAL BLOCK
-APPROVED-
File Number 238-36-V-20-SR
Date 6/29/2023
Chairman

REVISIONS:	DATE:
REVISED PER DES COMMENTS	2/10/23
REVISED PER DES COMMENTS	11/3/22
ADDED AS-BUILT WELL LOCATIONS	5/25/22
REVISED PER ENG. REVIEW	1-7-21

SITE PLAN

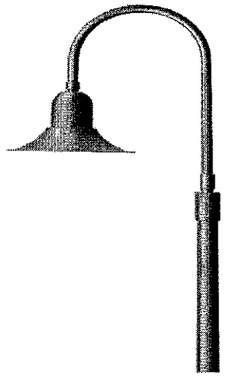
PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

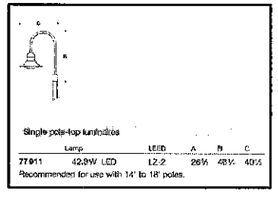
DATE:	AUG. 2020	SCALE:	1"=50'
PROJ. NO:	NH-1263	SHEET NO.	6 OF 15



LOCATION MAP
1"=2000'

POLE TOP LUMINAIRE W/ ASYMMETRICAL LIGHT DISTRIBUTION

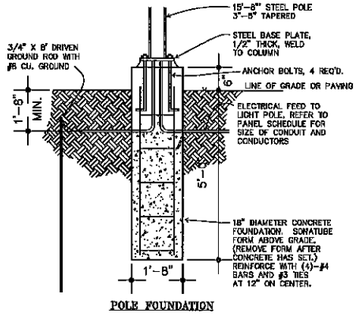




Single pole-top luminaires

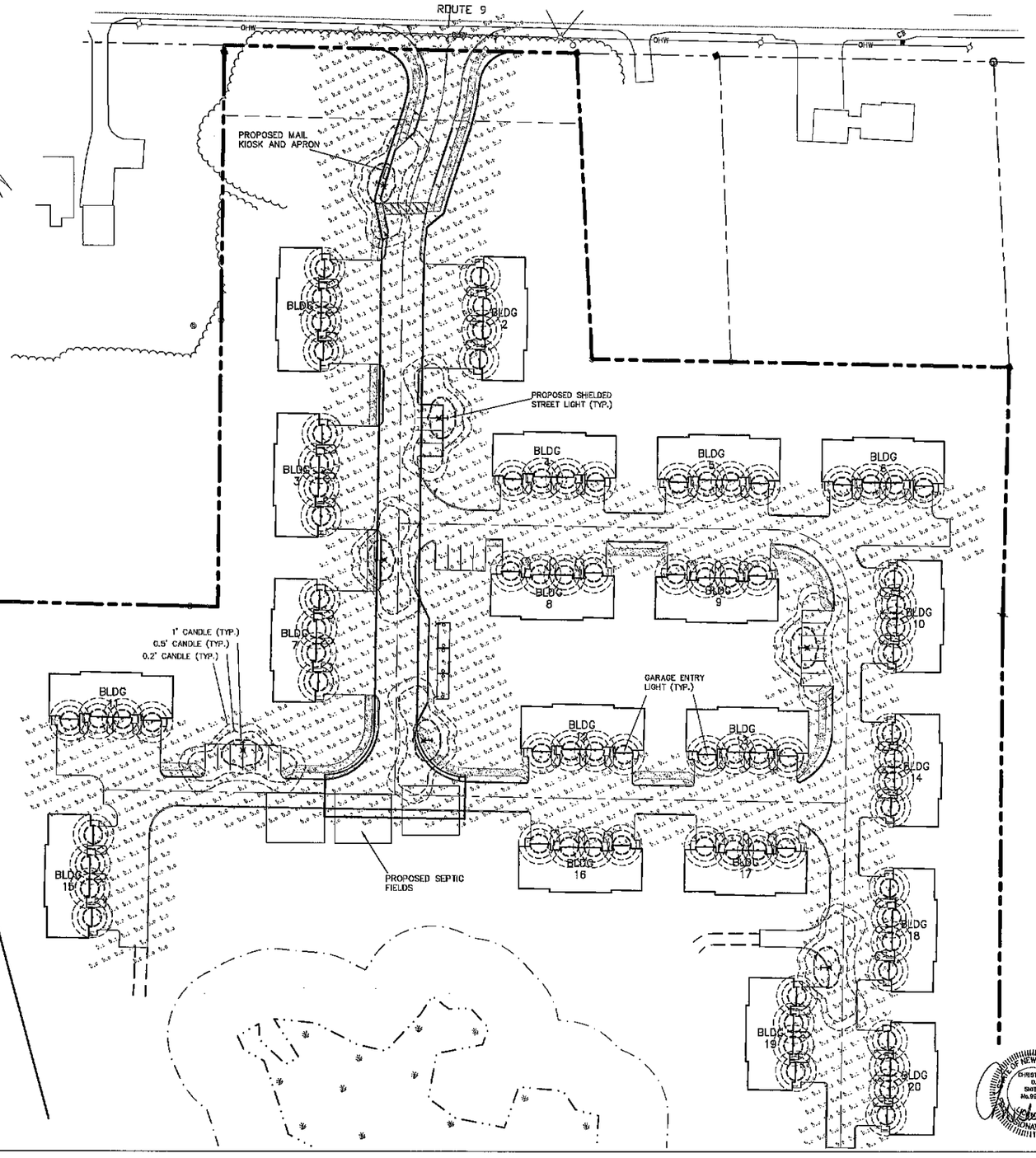
Lamp	LED	A	B	C
77911 42.9W LED	12.2	26¼	48¼	40¼

Recommended for use with 14' to 18' poles.



POLE FOUNDATION

LIGHT BASE DETAIL
SCALE: NONE



PREPARED FOR:

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N. HAMPTON, N.H. 03862

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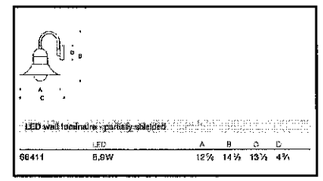
PHONE: 603-583-4860,
FAX. 603-583-4863

LED WALL LUMINAIRE – PARTIALLY SHIELDED



NOTES:
ALL PROPOSED LIGHTING TO BE DOWN CAST.

STREET LIGHTS SHALL BE BLACK LIGHT HEADS WITH METAL POLES

PLANNING BOARD
BARRINGTON, NH
-APPROVED-
File Number 238-36-V-20-SR
Date
Chairman

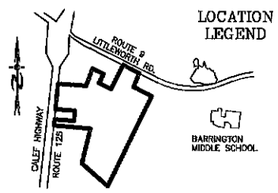
REVISED PER ENG. REVIEW	1-7-21
REVISED PER PB COMMENTS	11-24-20
REVISIONS:	DATE:

LIGHTING SITE PLAN

PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

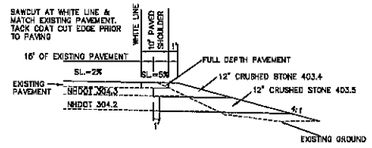
DATE:	SEPT., 2020	SCALE:	1"=40'
PROJ. NO:	NH-1263	SHT. NO.	7 OF 15

STATE OF NEW HAMPSHIRE
CHRISTIAN D. SMITH
No.9200
PROFESSIONAL ENGINEER



NOTES

1. ALL ELECTRICAL, TELEPHONE, CABLE TELEVISION AND ALARM LINES TO BE UNDERGROUND. LOW PROFILE UTILITY BOX STRUCTURES SHALL BE USED TO THE GREATEST EXTENT.
2. ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR, ENGINEER TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY.
3. ALL CONSTRUCTION METHODS AND MATERIALS WILL CONFORM TO THE TOWN OF BARRINGTON STANDARD SPECIFICATIONS AND TO N.H.D.O.T. STANDARDS AND REGULATIONS.



BY-PASS SHOULDER CROSS SECTION

NOT TO SCALE

NOTES:
GRAVEL DEPTHS MAY NEED TO BE INCREASED IN AREAS OF POOR SOILS.
ALL DITCHES TO BE 24" IN DEPTH (BELOW EDGE OF SHOULDER ELEVATION)

GRAVEL MAY BE PLACED AT 18" LIFTS, DENSITY TESTING IS REQUIRED

HOT BITUMINOUS PAVEMENT, MACHINE METHOD
1 1/2" WEARING COURSE, ITEM 403.11(A) HOT BITUMINOUS PAVEMENT MACHINE METHOD (12.5MM MAX AGGREGATE SIZE, 50 GYRATION, BINDER GRADE PG 64-28)

2" BINDER COURSE, ITEM 403.11(B) HOT BITUMINOUS PAVEMENT MACHINE METHOD (19 MM MAX AGGREGATE SIZE, 50 GYRATION, BINDER GRADE PG 64-28)

2" BINDER COURSE, ITEM 403.11(B) HOT BITUMINOUS PAVEMENT MACHINE METHOD (19 MM MAX AGGREGATE SIZE, 50 GYRATION, BINDER GRADE PG 64-28)

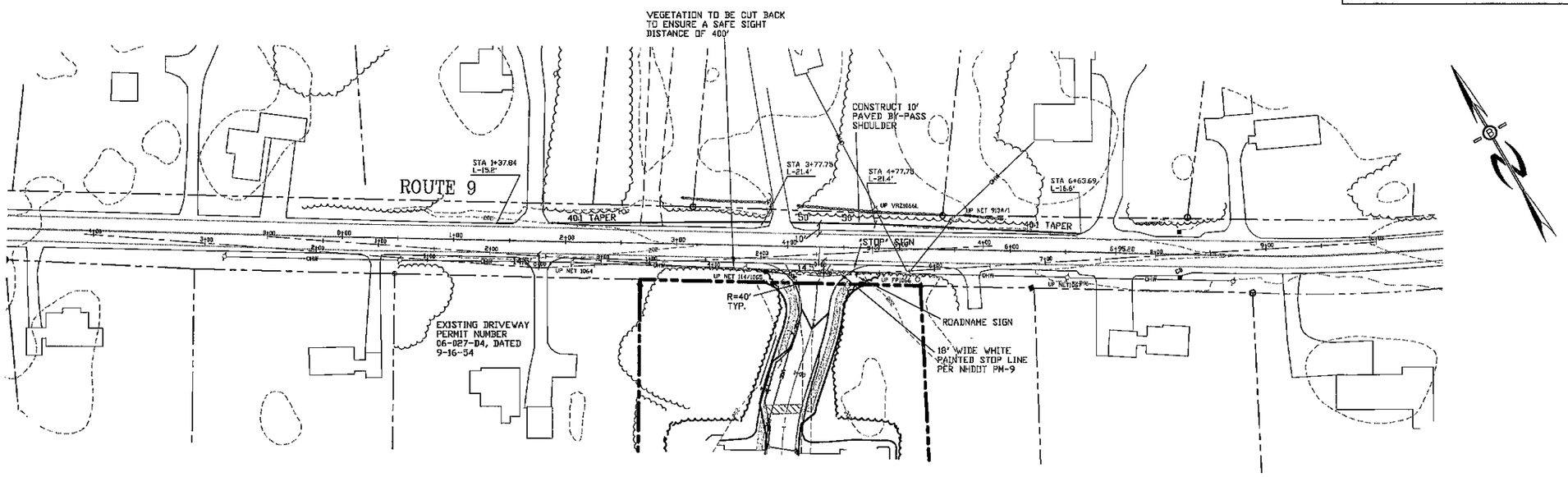
BITUMEN FOR TACK COAT (RS-1) AT 0.03 GAL/SY

APPLY PAVEMENT JOINT ADHESIVE (ITEM 403.16) TO ALL JOINTS

PREPARED FOR:

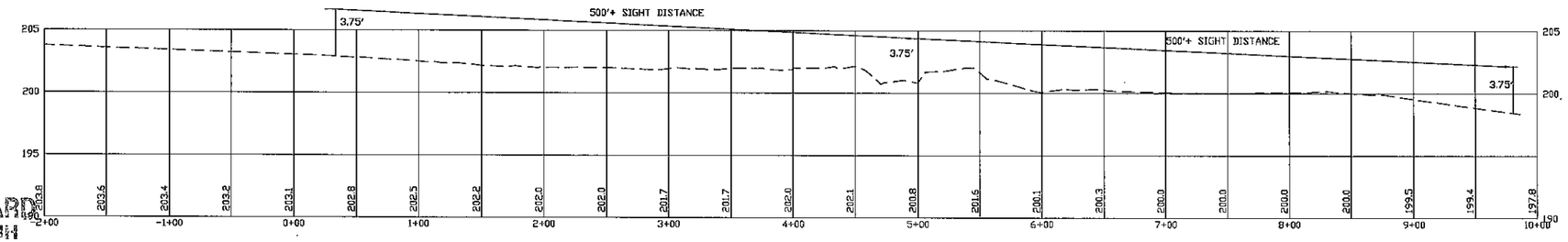
J&L TERRA HOLDINGS, INC.
79 EXETER ROAD
N. HAMPTON, N.H. 03862

BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863



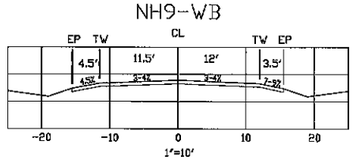
GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.



PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SR
Date 6/29/2023
Chairman

NH9-WB



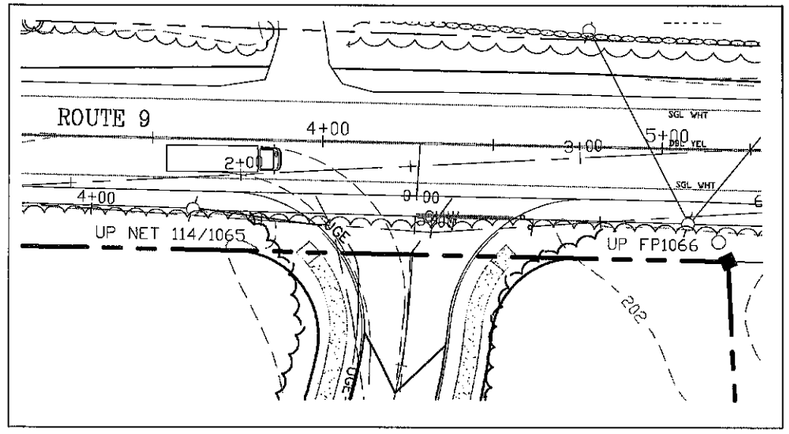
PROFILE SCALES:
HORIZONTAL: 1"=50' VERTICAL: 1"=6'

REVISIONS:	DATE:
REVISED PER NHDOT REVIEW	7-2-21
REVISED PER NHDOT REVIEW	5-3-21
REVISED PER NHDOT COMMENTS	11-24-20

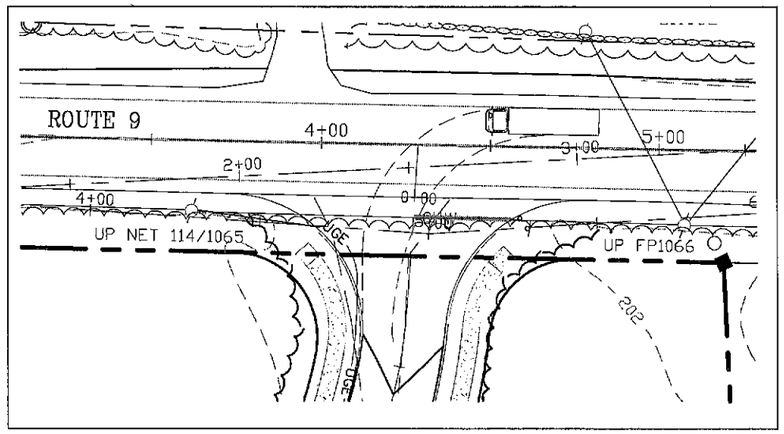
HIGHWAY ACCESS PLAN-H1

PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

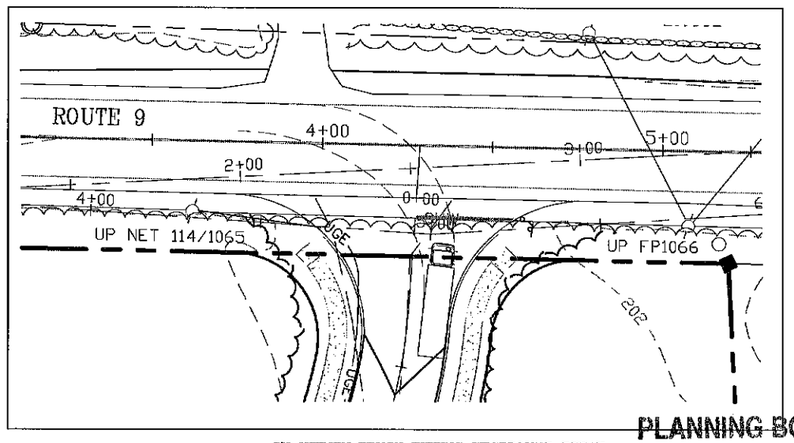
DATE:	JULY 2020	SCALE	1" = 50'
PROJ. NO:	NH-1263	SHEET NO.	8 OF 15



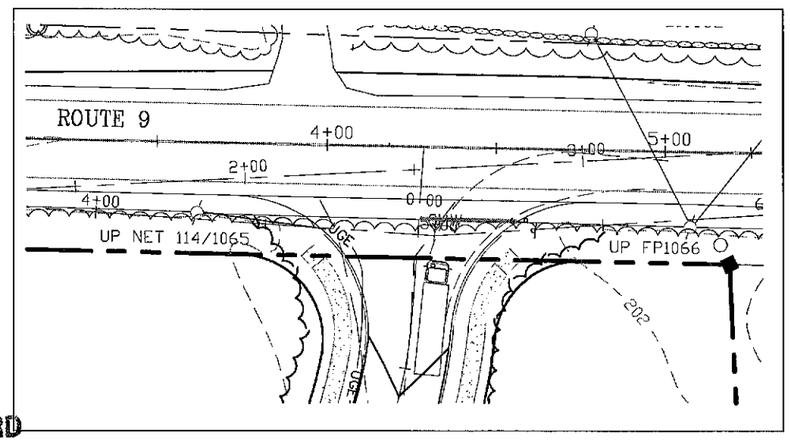
SU UTILITY TRUCK ENTERING EASTBOUND DETAIL
SCALE: 1"=20'



SU UTILITY TRUCK ENTERING WESTBOUND DETAIL
SCALE: 1"=20'

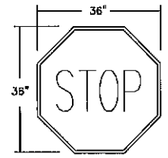


SU UTILITY TRUCK EXITING WESTBOUND DETAIL
SCALE: 1"=20'

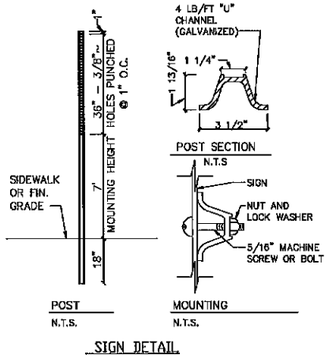


SU UTILITY TRUCK EXITING EASTBOUND DETAIL
SCALE: 1"=20'

PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SR
Date 6/29-2023
Chairman



R1-1
WHITE LETTERING
ON RED



SIGN DETAIL

PREPARED FOR:
J&L TERRA HOLDINGS, INC.
79 EXETER ROAD
N. HAMPTON, N.H. 03862

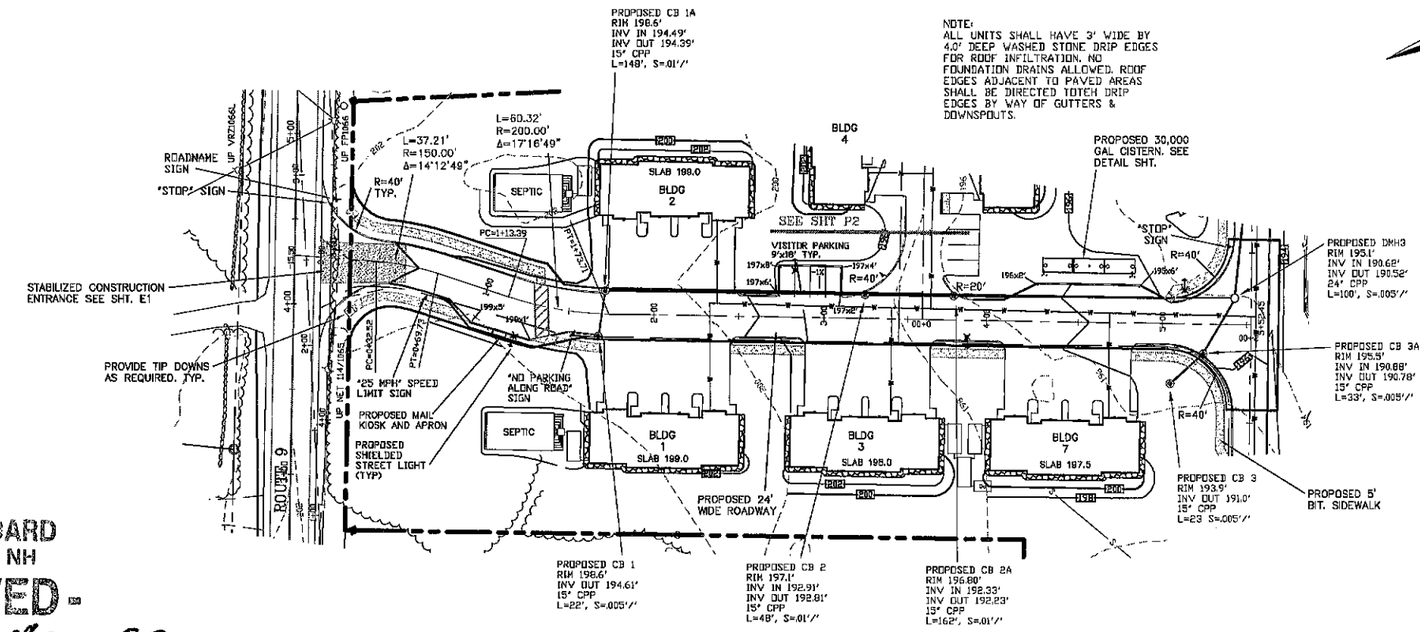
BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

REVISIONS:	DATE:

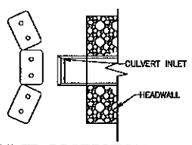
HIGHWAY ACCESS PLAN-H2

PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

DATE:	DEC. 2020	SCALE:	1"=20'
PROJ. NO:	NH-1263	SHEET NO.	8A OF 15



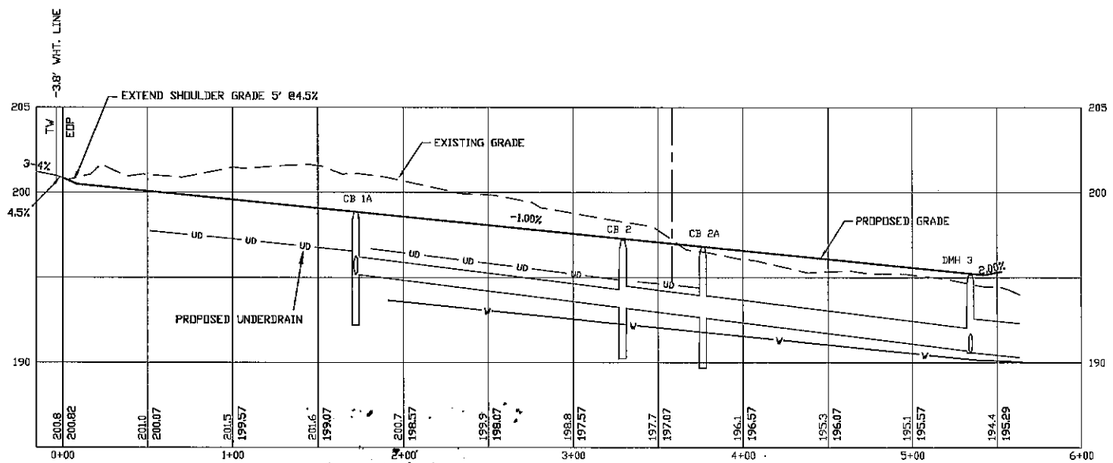
PLANNING BOARD
BARRINGTON, NH
APPROVED
File Number 238-36-V-20-SE
Date 6/29/2023
Chairman

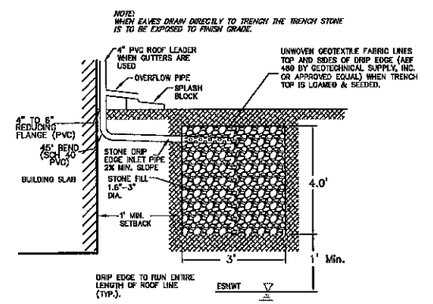


INLET PROTECTION
NORMAL USE AT CULVERT INLETS
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS
FOR STRAW OR HAY BALE BARRIERS

1. STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.
2. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED.
3. WHEN HAY BALES ARE USED, THE BALES SHALL BE EMBEDDED AT LEAST 4 INCHES INTO THE SOIL. WHEN TIMBER STRUCTURES ARE USED, THE TIMBER SHALL EXTEND AT LEAST 18 INCHES INTO THE SOIL.
4. HAY OR STRAW BALES SHALL BE ANCHORED INTO THE SOIL USING 2" X 2" STAKES DRIVEN THROUGH THE BALES AND AT LEAST 18 INCHES INTO THE SOIL.
5. SEEDING, FERTILIZING, AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS IN THE APPROPRIATE VEGETATIVE BMP.
6. STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.





STONE DRIP EDGE SECTION

PROFILE SCALES:
HORIZONTAL: 1"=40' VERTICAL: 1"=4'

PREPARED FOR:

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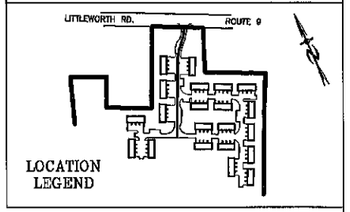


NOTES

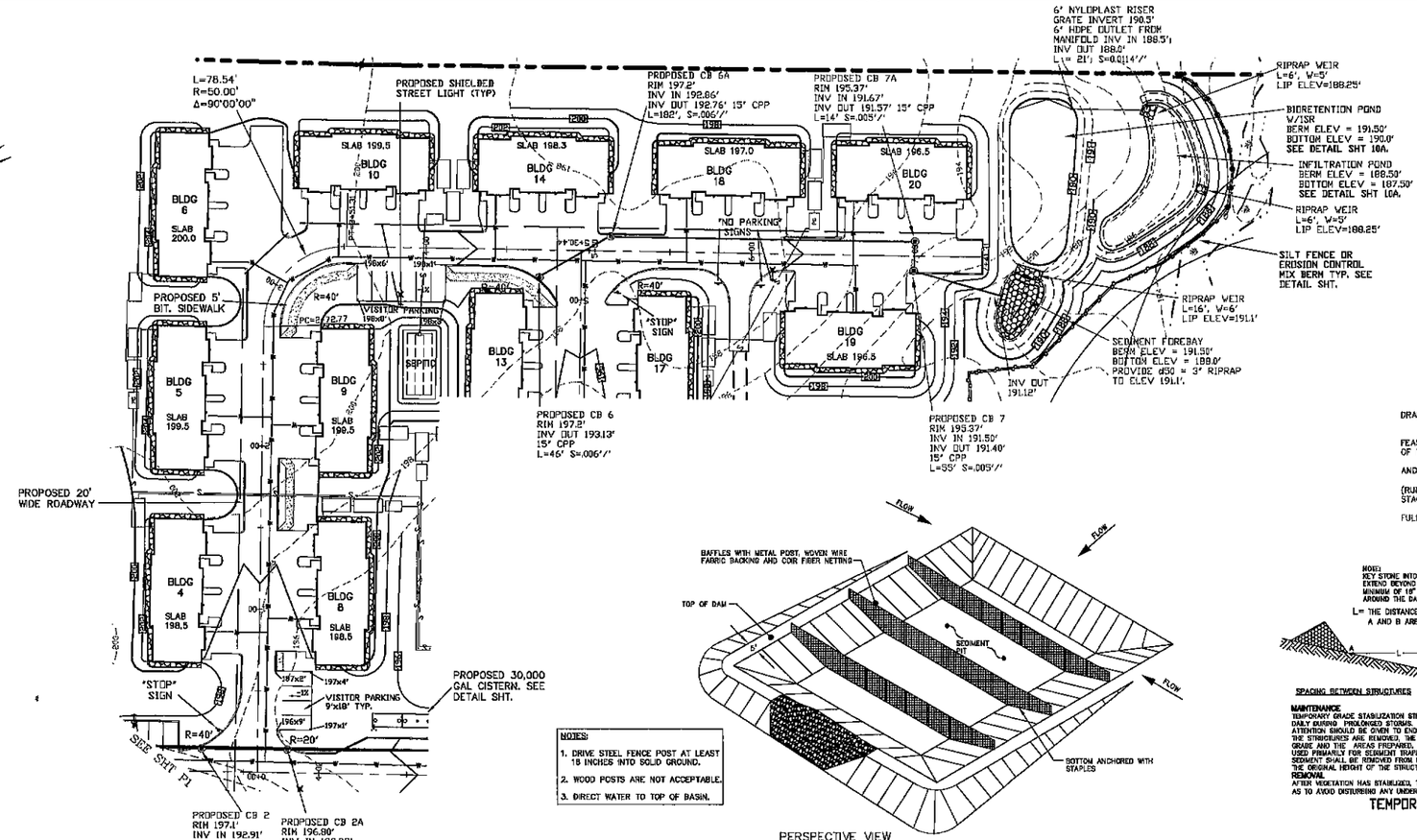
1. ALL ELECTRICAL, TELEPHONE, CABLE TELEVISION AND ALARM LINES TO BE UNDERGROUND. THE SIZE AND LOCATION IS TO BE DETERMINED BY APPROPRIATE UTILITY COMPANY.
2. ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR, ENGINEER TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY.
3. ALL CONSTRUCTION METHODS AND MATERIALS WILL CONFORM TO THE TOWN STANDARD SPECIFICATIONS AND TO NH.D.O.T. STANDARDS AND REGULATIONS.
4. ALL DRAINAGE STRUCTURE AND SVALES WILL BE BUILT AND STABILIZED PRIOR TO HAVING RUN-OFF DIRECTED TO THEM.
5. SEE DETAIL SHEETS FOR STANDARD CONSTRUCTION NOTES AND DETAILS.
6. PROPOSED UNDER DRAINS TO BE INSTALLED AS SHOWN ON THE TYPICAL ROAD CROSS SECTION DETAIL AND TIE INTO THE CATCH BASINS.
7. ALL BUILDING PARKING AREAS TO BE GRADED TO DRAIN AWAY FROM THE PROPOSED BUILDINGS.

REVISED PER REVIEW	5/10/23
REVISED PER DES COMMENTS	2/10/23
REVISED PER NHDOT REVIEW	7-2-21
REVISED PER NHDES AoT REVIEW	6-29-21
REVISED PER NHDOT REVIEW	5-3-21
REVISED PER ENG. REVIEW	1-7-21
REVISED PER PB COMMENTS	11-24-20

PLAN & PROFILE - P1

PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

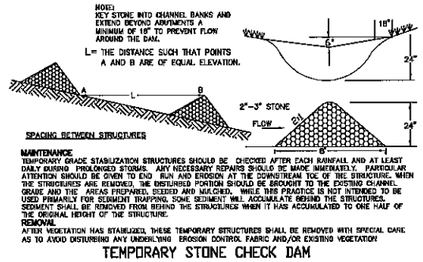
DATE:	AUG. 2020	SCALE	1" = 40'
PROJ. NO:	NH-1263	SHEET NO.	9 OF 15



NOTES:
1. DRIVE STEEL FENCE POST AT least 18 INCHES INTO SOLID GROUND.
2. WOOD POSTS ARE NOT ACCEPTABLE.
3. DIRECT WATER TO TOP OF BASIN.

PERSPECTIVE VIEW

TEMPORARY SEDIMENT BASIN



TEMPORARY STONE CHECK DAM

PREPARED FOR:

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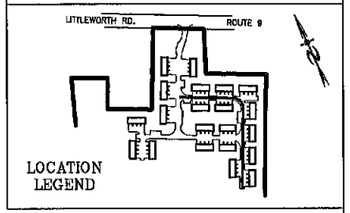


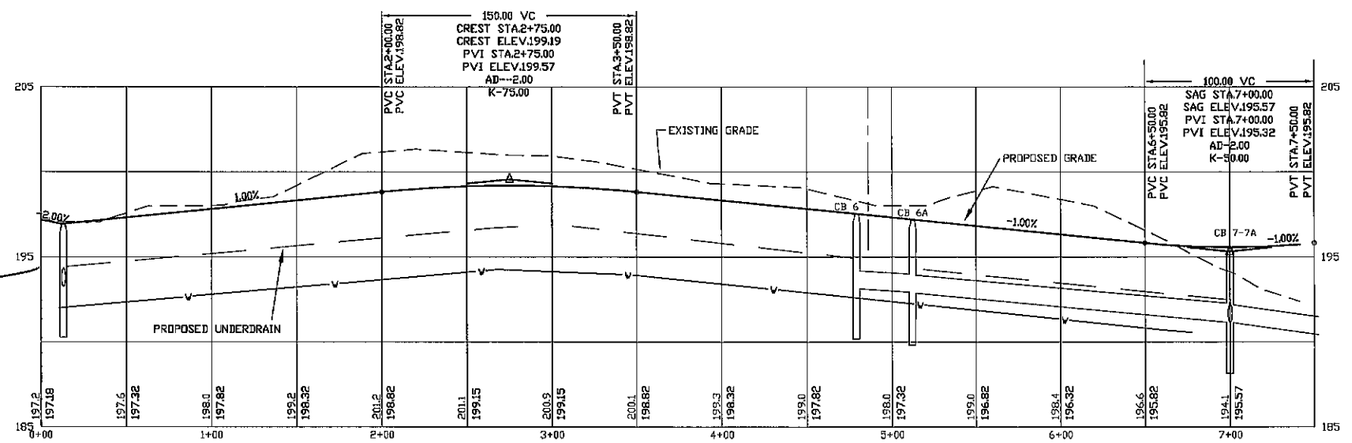
DRAINAGE NOTES:

DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATION WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.

DO NOT PLACE SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE BIO-RETENTION AREA DURING ANY STAGE OF CONSTRUCTION.

RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL BMPs ARE FULLY STABILIZED.



PROFILE SCALES:
HORIZONTAL: 1"=40' VERTICAL: 1"=4'

PLANNING BOARD
BARRINGTON, NH
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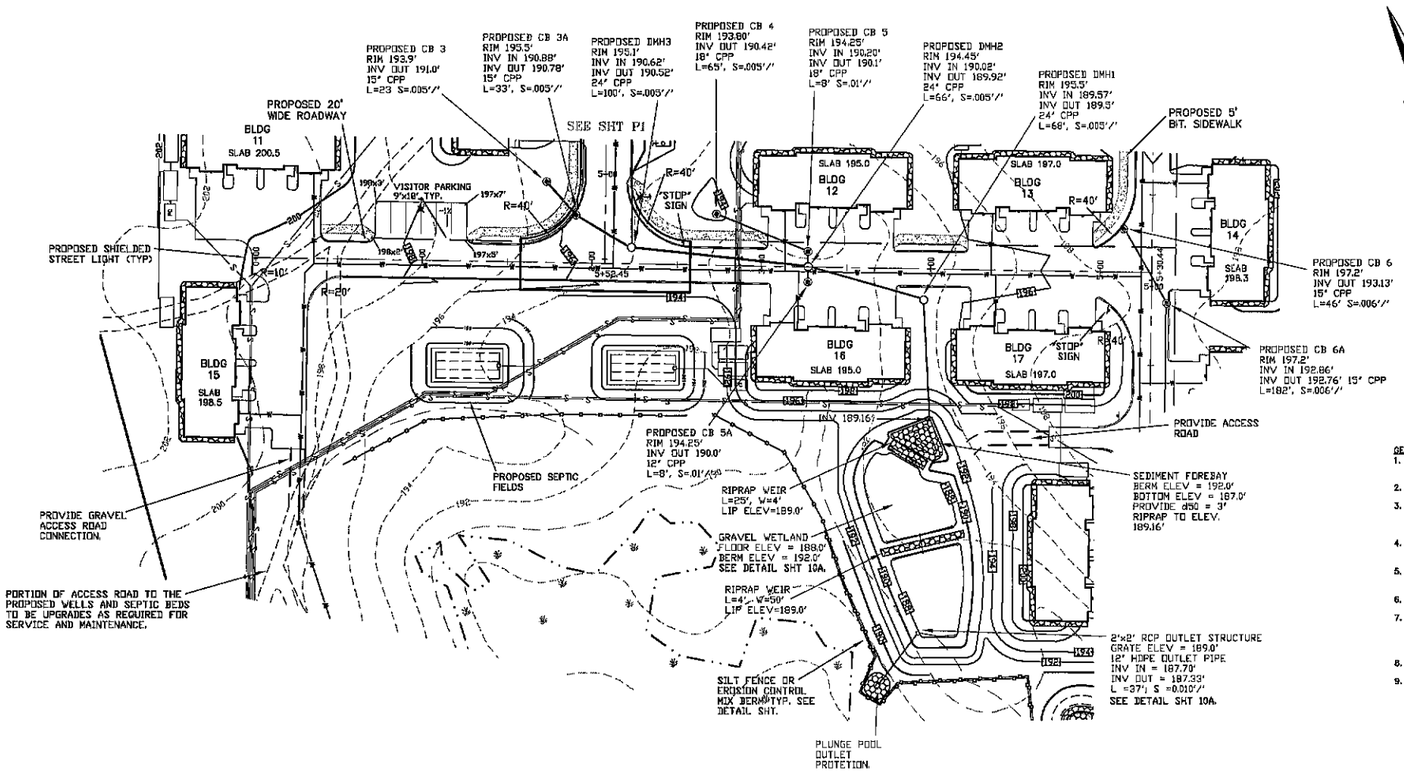
File Number 238-36-V-20-SR
Date 6/29/2023
Chairman

REVISED PER DES COMMENTS	2/10/23
REVISED PER NHDES AoT RMI	7-26-21
REVISED PER ENG. REVIEW	1-7-21
REVISED PER PB COMMENTS	11-24-20

PLAN & PROFILE - P2

PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

DATE:	AUG. 2020	SCALE	1" = 40'
PROJ. NO:	NH-1263	SHEET NO.	10 OF 15



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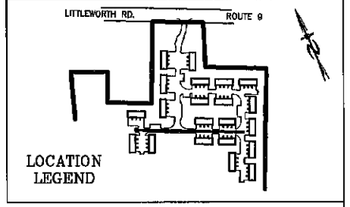
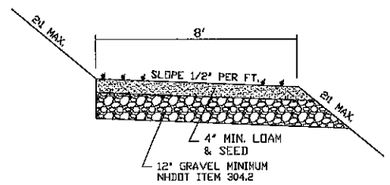
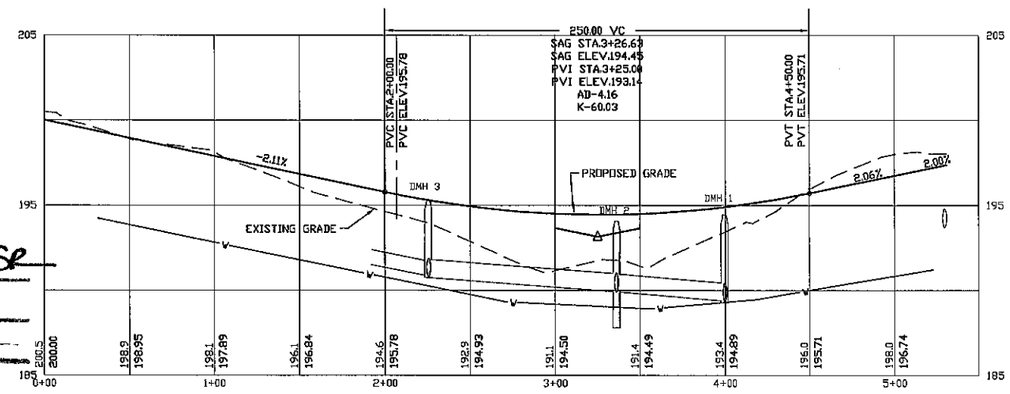


GENERAL NOTES:

1. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES (IN ACCORDANCE WITH Env-Wq 1500) PRIOR TO THE START OF ANY CONSTRUCTION OPERATION THAT MAY CAUSE ANY SEDIMENTATION OR SILTATION AT THE SITE.
2. INSTALL STORM DRAIN INLET PROTECTION TO PREVENT CLOGGING OF THE STORM SEWER AND SEDIMENT LOADS TO DOWNSTREAM STORM WATER FACILITIES OR WATERBODIES.
3. IF THE STORMWATER BMP IS BEING DESIGNED TO SERVE AS A TEMPORARY SEDIMENT BASIN, GRADE THE BMP TO WITHIN THREE (3) FEET OF FINAL GRADE TO PROTECT THE UNDERLYING MATERIAL FROM CLOGGING. ONCE CONSTRUCTION IN THE CONTRIBUTING DRAINAGE AREA HAS BEEN COMPLETED AND THE SITE IS STABILIZED, EXCAVATE THE BASIN TO FINAL GRADE AND COMPLETE CONSTRUCTION OF THE BMP.
4. GRADING OF THE BASIN SHALL BE ACCOMPLISHED USING LOW-IMPACT EARTH-MOVING EQUIPMENT TO PREVENT COMPACTION OF THE UNDERLYING SOILS. SMALL TRACKED DOZERS AND BOBCATS WITH RUNNER TRACKS ARE RECOMMENDED.
5. EXCAVATE THE BASIN TO THE SPECIFIED DEPTH (ELEVATION). IT IS RECOMMENDED THAT ALL SUB MATERIAL BELOW THE SPECIFIED ELEVATION SHALL BE LEFT UNDISTURBED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. GRADE TO THE DEPTH (ELEVATION) SPECIFIED IN THE CONSTRUCTION DOCUMENTS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
7. IN THE EVENT THAT SEDIMENT IS INTRODUCED INTO THE BMP DURING OR IMMEDIATELY FOLLOWING EXCAVATION, THIS MATERIAL WILL NEED TO BE REMOVED FROM THE BASIN PRIOR TO INITIATING THE NEXT STEP IN THE CONSTRUCTION PROCESS. SEDIMENT THAT HAS BEEN WASHED INTO THE BASIN DURING THE EXCAVATION PROCESS CAN SEAL THE PERMEABLE MATERIAL, SIGNIFICANTLY REDUCING THE INFILTRATION CAPACITY OF THE SOILS.
8. SEEDING AND INSTALLATION OF EROSION CONTROL BLANKET IF REQUIRED SHALL BE COMPLETED WITHIN 48 HOURS OF FINAL GRADING.
9. AREA SHALL BE STAKED OFF DURING CONSTRUCTION TO RESTRICT HEAVY EQUIPEMENT TRAFFIC FROM COMPACTING NATIVE SOILS.



ACCESS ROAD CROSS SECTION



PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SP
Date 6/29/2023
Chairman

PROFILE SCALES:
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REVISED PER DES COMMENTS	2/10/23
REVISED PER NHDES AoT RMI	7-26-21
REVISED PER ENG. REVIEW	1-7-21
REVISED PER PB COMMENTS	11-24-20

PLAN & PROFILE - P3

PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

DATE:	AUG. 2020	SCALE	1" = 40'
PROJ. NO:	NH-1263	SHEET NO.	11 OF 15

PREPARED FOR:

J&L TERRA HOLDINGS, INC.
79 EXETER ROAD
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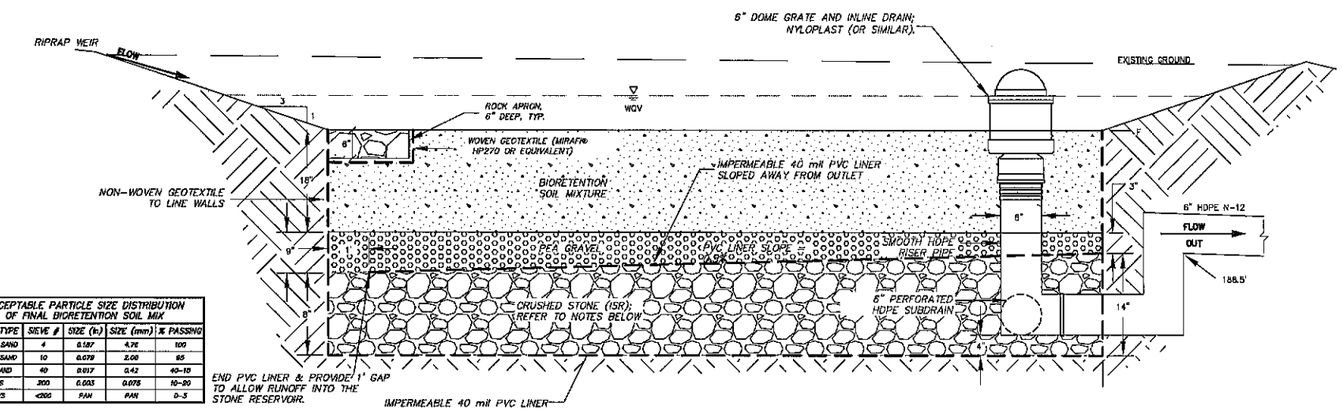
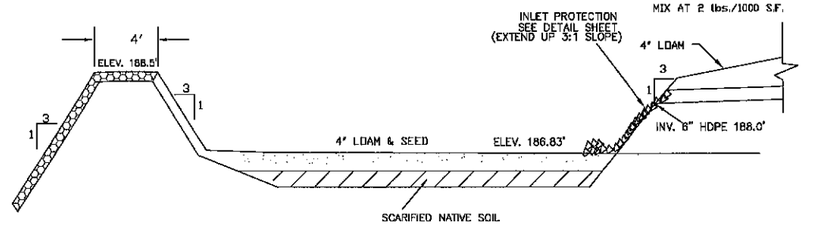


LONGITUDINAL SECTION

ACCEPTABLE PARTICLE SIZE DISTRIBUTION OF FINAL BIORETENTION SOIL MIX				
MEDIA TYPE	SIEVE #	SIZE (in)	SIZE (mm)	% PASSING
COARSE SAND	4	0.187	4.76	100
MEDIUM SAND	10	0.079	2.00	85
FINE SAND	40	0.017	0.42	40-15
SILTS	200	0.003	0.078	10-20
CLAYS	<200	PAN	PAN	0-5

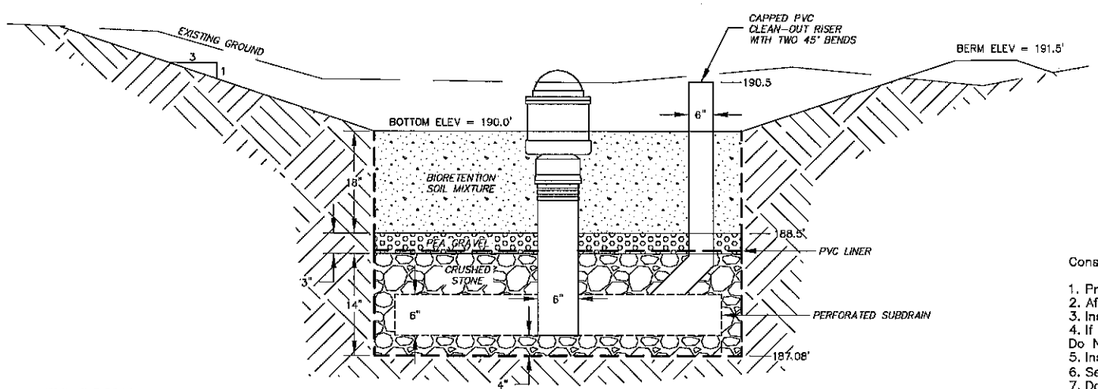
BIORETENTION SOIL MEDIA COMPONENTS: *
- AMOUNTS MIXED BY TOTAL VOLUME
* 60-85% - SAND (0.2 TO 2.0 mm) (SEE SPECS ABOVE)
* 15-25% - LOAM OR TOPSOIL
* 3-5% - ORGANIC MATTER
* 0-5% - WATER TREATMENT RESIDUALS OR IRON FILINGS**



CROSS SECTION OF INFILTRATION BASIN

INFILTRATION BASIN NOTES:

DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATION WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
AFTER THE INFILTRATION SYSTEM AREA IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES. FOLLOWED BY A PASS WITH A LEVELING DRAG.
DO NOT PLACE INFILTRATION SYSTEM INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.



CROSS-SECTION BIORETENTION ISR DETAIL

PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V20-SR
Date 6/29/2023
Chairman

NOTES:
1. BIORETENTION SOIL MIX SHALL NOT BE PLACED UNTIL AFTER ENGINEERING APPROVAL AND INSPECTION OF SUBGRADE.
2. SEED THE SYSTEM FLOOR AND SIDE SLOPES WITH RYE GRASS MIXTURE CONTAINING PERENNIAL AND WINTER RYES, AT A RATE SPECIFIED BY THE MANUFACTURER. STABILIZE THE SLOPES WITH STRAW TO A DEPTH OF 1".
3. GENERAL CONSTRUCTION GUIDELINES:
   3.1. VERIFY THAT NO FOREIGN OR DELETERIOUS MATERIAL OR LIQUID SUCH AS PAINT, PAINT WASHOUT, CONCRETE SLURRY, ASPHALT/CONCRETE LUMPS OR CHUNKS, CEMENT, PLASTER, OILS, GASOLINE, DIESEL FUEL, PAINT THINNER, TURPENTINE, TAR, ROOFING COMPOUND, SOLID WASTE, OR ACID HAS BEEN DEPOSITED IN PLANTING SOIL (BIORETENTION MEDIA OR LOAM ON SIDE SLOPES).
   3.2. PROCEED WITH PLACEMENT OF ANY SUBSURFACE MATERIALS ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
   3.3. COMPACT EACH BLENDED LIFT OF BIORETENTION SOIL MEDIA TO 75% OF MAXIMUM STANDARD PROCTOR DENSITY ACCORDING TO ASTM D698.
   3.4. GRADE SOIL MEDIA TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES.
   3.5. LIGHTLY COMPACT FINISHED FLOOR ELEVATION AND FINISHED SLOPES USING THE BUCKET OF AN EXCAVATOR, NON-MOTORIZED ROLLER, HAND TAMP, OR OTHER MEANS, THEN ROUGHEN SURFACE WITH A RAKE TO LOOSEN SOILS BEFORE SEEDING.
4. BIORETENTION SOIL MEDIA (BSM) MIXTURE SPECIFICATIONS:
   4.1. STICKS AND ROOTS SHOULD BE MINIMIZED IN THE BSM MIXTURE, AND PREFERABLY LIMITED TO NOTHING LARGER THAN 4.75 mm (3/16" ø).
   4.2. DEBRIS AND OTHER FOREIGN MATERIALS SHOULD BE MINIMIZED.
   4.3. ORGANIC MATTER SHOULD MAKE UP A MINIMUM OF 3% BY VOLUME AND A MAXIMUM 5% BY VOLUME OF THE BSM.
5. THE CRUSHED STONE LAYER SHOULD CONSIST OF AASHTO #5 STONE (3/4"-#).

Construction Sequence

1. Protect infiltration basin area from compaction prior to installation.
2. After installation, protect sediment-laden water from entering inlets and pipes.
3. Install and maintain proper Erosion and Sediment Control Measures during construction.
4. If necessary, excavate infiltration basin bottom to an uncompacted subgrade free from rocks and debris. Do NOT compact subgrade.
5. Install Outlet Control Structures.
6. Seed and stabilize topsoil. (Vegetate if appropriate with native plantings.)
7. Do not remove Inlet Protection or other Erosion and Sediment Control measures until site is fully stabilized.
8. Any sediment that enters inlets during construction is to be removed within 24 hours.

Maintenance and Inspection

- Catch Basins and Inlets (upgradient of infiltration basin) should be inspected and cleaned on an annual basis.
- The vegetation along the surface of the infiltration basin should be maintained in good condition, and any bare spots immediately revegetated.
- Vehicles should not be parked or driven on an Infiltration Basin, and care should be taken to avoid excessive compaction by mowers.
- Inspect the completed basin and make sure that runoff drains down within 72 hours.
- Also inspect for accumulation of sediment, damage to outlet control structures, erosion control measures, signs of water contamination/spills, and slope stability in the berms.
- Mosquito's should not be a problem if the water drains in 72 hours. Mosquitoes require a considerably long breeding period with relatively static water levels.
- Mow only as appropriate for vegetative cover species.
- Remove sediment from basin accumulations. Restore original cross section and infiltration rate. Properly dispose of sediment.

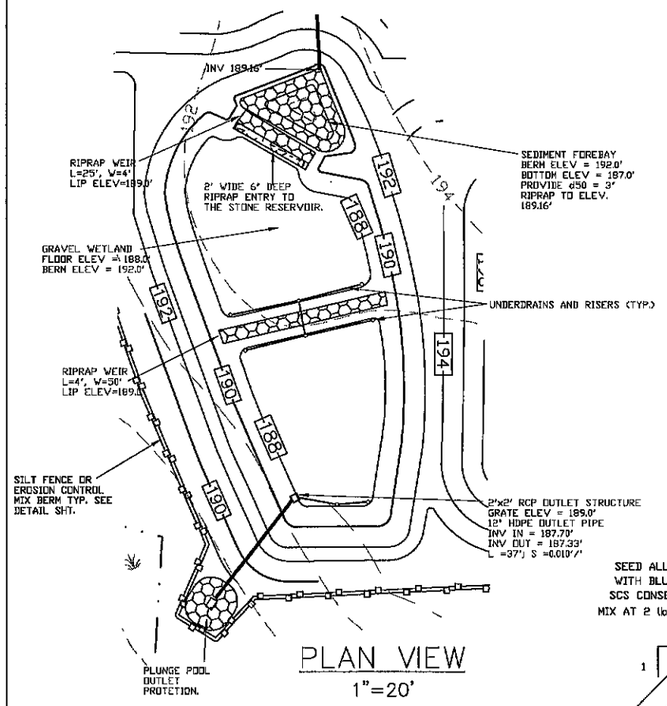
STATE OF NEW HAMPSHIRE
CHRISTIAN G. SMITH
No. 9800
PROFESSIONAL ENGINEER

REVISED PER NHDES AoT RM	8-13-21
REVISED PER NHDES AoT RM (ADD SHEET)	7-26-21

BASIN DETAILS

PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

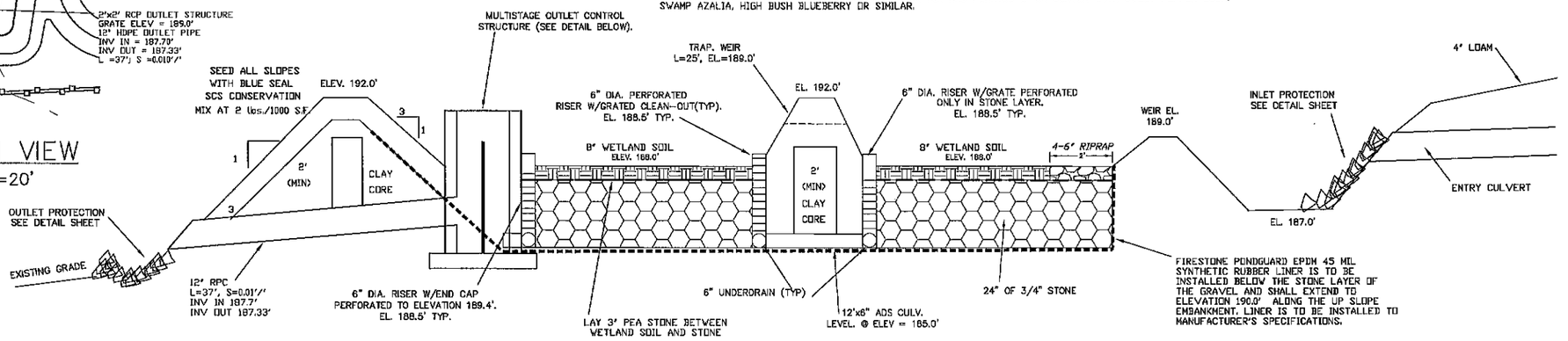
DATE:	AUG. 2020	SCALE	1" = NTS
PROJ. NO:	NH-1263	SHEET NO.	10A OF 15



PLAN VIEW

1"=20'

NOTE: BAYS TO BE SEEDED WITH N.E. CONSERVATION MIX AND PLANTED 2' ON CENTER WITH SWEET PEPPER BUSH, SWAMP AZALIA, HIGH BUSH BLUEBERRY OR SIMILAR.



SECTION OF GRAVEL WETLAND

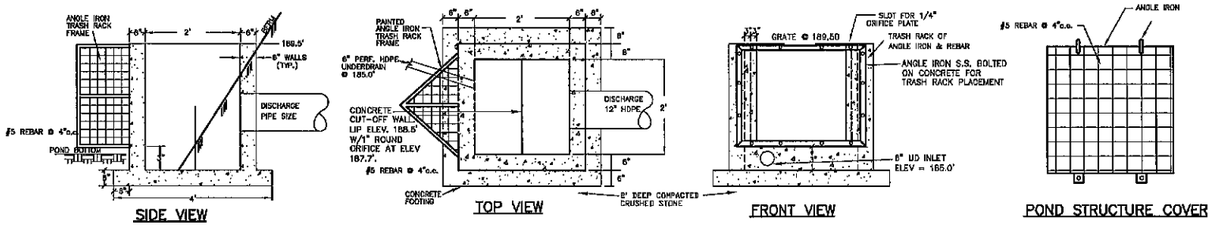
NOT TO SCALE

NOTES

1. REINFORCING STEEL SHALL CONSIST OF A SINGLE LAYER OF HORIZ. AND VERT. PLACED #4 REBAR @ 12" O.C.
2. CONCRETE BOX TO BE CONSTRUCTED OR PRE CAST OF EQUAL DIMENSIONS & REINFORCING
3. CONCRETE SLAB TO BE CONSTRUCTED ALONG W/ BASE. FOR PRE CAST BOX, A SLOTTED CONCRETE SLAB TO BE USED.
4. SECTION JOINTS AND PIPE OPENING SHALL BE SEALED WITH MORTAR BY CONTRACTOR.
5. ALL EXPOSED REBAR TO BE PAINTED WITH RUST-RESISTANT PAINT, COLOR AT CONTRACTOR'S DISCRETION.
6. TO BE SUPPLIED BY CAPITAL CONCRETE PRODUCTS OF HENNIKER, N.H., (1-603 -428-3218) OR EQUAL.
7. STRUCTURE TO BE PAINTED W/ AN EXTERIOR FOREST GREEN PAINT OR SIMILAR AND SCREENED W/ SHRUBS

LIST OF MATERIALS

1. 5000 PSI CONCRETE
2. ANGLE IRONS @ 2' LENGTH
3. REQUIRED S.S. BOLTS & FASTENERS
4. 1/4" STEEL PLATE W/ DRILLED ORIFICES
5. 1/2 C.Y. - CRUSHED STONE FOR BASE



SIDE VIEW | TOP VIEW | FRONT VIEW | POND STRUCTURE COVER

MULTI-STAGE DISCHARGE OUTLET CONTROL STRUCTURE

NOT TO SCALE

PLANNING BOARD
BARRINGTON, NH
APPROVED
File Number 238-36-V20-SP
Date 6/29/2023
Chairman

PREPARED FOR:

J&L TERRA HOLDINGS, INC.
79 EXETER ROAD
N. HAMPTON, N.H. 03862

BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

STATE OF NEW HAMPSHIRE
CHRISTIAN D. SMITH
No.9300
LICENSED PROFESSIONAL ENGINEER

REVISED PER NHDES AoT RMI	8-13-21
REVISED PER NHDES AoT RMI (ADD SHEET)	7-26-21

BASIN DETAILS

PLAN FOR:
RESIDENTIAL DEVELOPMENT
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BARRINGTON, NH

DATE:	AUG. 2020	SCALE	1" = NTS
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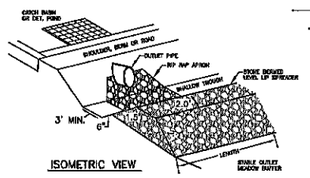
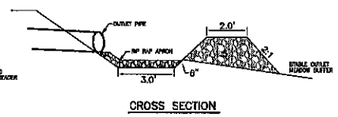
STONE BERM LEVEL SPREADER



ISOMETRIC VIEW

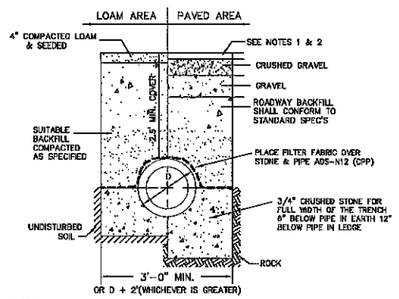


CROSS SECTION

TABLE 4-13-GRADATION OF STONE FOR LEVEL BERM	
% BY WEIGHT PASSING SQUARE MESH SIEVE	SCIVE DESIGNATION (INCHES)
100%	12
84%-100%	6
68%-83%	3
42%-55%	1
8%-12%	No. 4

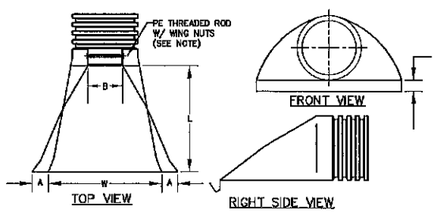
LEVEL SPREADER

1. CONSTRUCT THE LEVEL SPREADER LIP ON A 0% GRADE TO INSURE UNIFORM SPREADING OF RUNOFF.
2. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL AND NOT ON FILL.
3. THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING EXCELSIDR ENFORCER MATTING BENEATH THE STONE. EACH STRIP SHALL OVERLAP BY AT LEAST SIX INCHES.
4. THE FLOW FROM THE LEVEL SPREADER SHALL OUTLET ONTO STABILIZED AREAS. WATER SHOULD NOT RE-CONCENTRATE IMMEDIATELY BELOW THE SPREADER.
5. MAINTENANCE: THE LEVEL SPREADER SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE IF THE LIP HAS BEEN DAMAGED AND THE DESIGN CONDITIONS HAVE NOT CHANGED. ANY DETRIMENTAL SEDIMENT ACCUMULATION SHOULD BE REMOVED. IF STONE REMOVAL HAS TAKEN PLACE ON THE LIP, THEN THE DAMAGE SHOULD BE REPAIRED.



NOTE:
1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPEC'S.

TYPICAL DRAINAGE TRENCH DETAIL

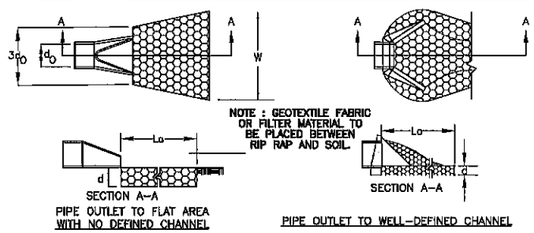


PART No.	PIPE SIZE	A	B(MAX)	H	L	W
1510-NP	15" 375 mm	6.5" 165 mm	10" 254 mm	6.5" 165 mm	25" 635 mm	29" 735 mm
1810-NP	18" 450 mm	7.5" 190 mm	15" 380 mm	6.5" 165 mm	32" 812 mm	35" 890 mm
2410-NP	24" 600 mm	7.5" 190 mm	18" 450 mm	6.5" 165 mm	36" 900 mm	45" 1140 mm
3010-NP	30" 750 mm	10.5" 266 mm	N/A	7.0" 178 mm	53" 1345 mm	68" 1725 mm
3610-NP	36" 900 mm	10.5" 266 mm	N/A	7.0" 178 mm	53" 1345 mm	68" 1725 mm

NOTE: PE THREADED ROD W/ WING NUTS PROVIDED FOR END SECTIONS 15"-24". 30" & 36" END SECTIONS TO BE WELDED PER MANUFACTURER'S RECOMMENDATIONS.

ADS N-12 FLARED END SECTIONS

NOT TO SCALE (ALL DIMENSIONS ARE NOMINAL)



CONSTRUCTION SPECIFICATIONS

1. THE SUB GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
2. THE ROCK OR GRAVEL USED FOR FILTER OF RIP RAP SHALL CONFORM TO THE SPECIFIED GRADATION. 3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
4. STONE FOR THE RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
5. STONE FOR RIRAP SHALL BE ANGULAR OR SUBANGULAR. THE STONES SHOULD BE SHAPED SO THAT THE LEAST DIMENSION OF THE STONE FRAGMENT SHALL BE NOT LESS THAN ONE-THIRD OF THE GREATEST DIMENSION OF THE FRAGMENT.
6. FLAT ROCKS SHALL NOT USED FOR RIP RAP. VOIDS IN THE ROCK RIPRAP SHOULD BE FILLED WITH SPALLS AND SMALLER ROCKS.

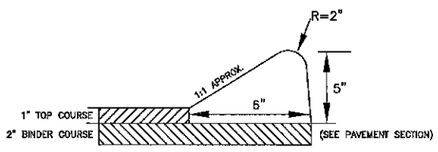
MAINTENANCE

1. THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE RIP RAP HAS BEEN DISPLACED, UNDERMINED OR DAMAGED, IT SHOULD BE REPAIRED IMMEDIATELY. THE CHANNEL IMMEDIATELY BELOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO OUTLET PROTECTION.

PIPE OUTLET PROTECTION

TABLE 7-24--RECOMMENDED RIP RAP GRADATION RANGES			
THICKNESS OF RIP RAP = 0.50 FEET			
d50 SIZE=	0.50	FEET 6	INCHES
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE (INCHES) FROM		TO
100%	9		12
85%	8		11
50%	6		9
15%	2		3

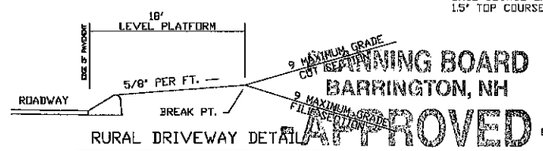
TABLE 7-24-RECOMMENDED RIP RAP GRADATION RANGES			
THICKNESS OF RIP RAP = 0.75 FEET			
d50 SIZE=	0.75	FEET 9	INCHES
% OF WEIGHT SMALLER THAN THE GIVEN d50 SIZE	SIZE OF STONE(INCHES) FROM		TO
100%	14		18
85%	12		16
50%	9		14
15%	3		5



THE BIT. CURBING IS TO BE CONSTRUCTED OF A POLYFIBER CURB MIX CONTAINING 59.2% SAND, 27.6% 3/8" STONE, 8.2% 1/2" STONE, 0.3% FIBERS, AND 3.0% ASPHALT.

CAPE COD BERM DETAIL

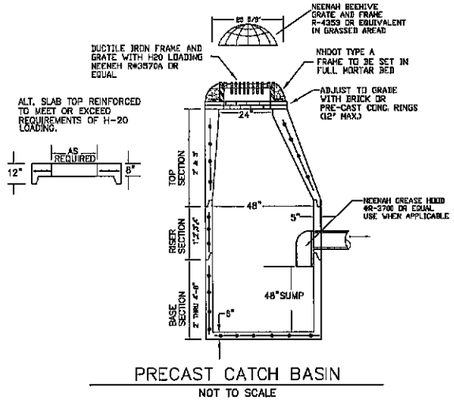
NOT TO SCALE



RURAL DRIVEWAY DETAIL

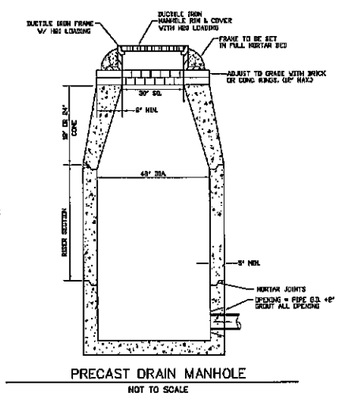
NOT TO SCALE

File Number 238-36-1220-SR
Date 6/29/2023
Chairman



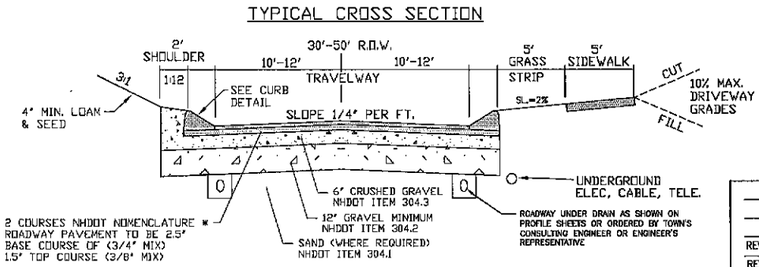
PRECAST CATCH BASIN

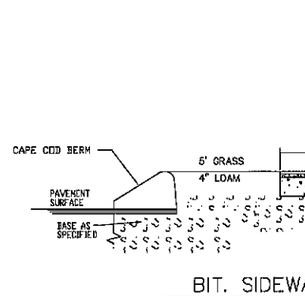
NOT TO SCALE



PRECAST DRAIN MANHOLE

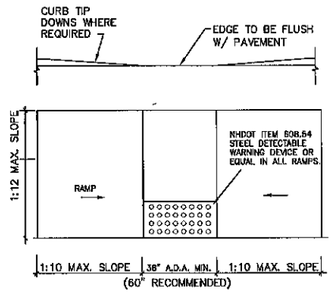
NOT TO SCALE





BIT. SIDEWALK DETAIL

NOT TO SCALE



SIDEWALK RAMP DETAIL

NOT TO SCALE

ALL MATERIALS TO BE INSPECTED AND APPROVED BY TOWN ENGINEER AND MEET NHDOT STANDARDS.

TOWN MAY REQUIRE UNDERDRAIN OR ADDITIONAL DRAINAGE TO INCLUDE OVER EXCAVATION OF UNSUITABLE MATERIALS AND INSTALLATION OF GEOTEXTILE FABRIC. SEE ADDITIONAL NOTES ON DETAIL SHEETS.
COMPACTION IS REQUIRED FOR BOTH THE SUBBASE AND BASE MATERIALS. IT SHALL BE PERFORMED BY USING VIBRATING ROLLERS AND WATER IN LIFTS OF NO GREATER THAN TWELVE (12) INCHES. COMPACTION SHALL BE PERFORMED UNTIL THE REQUIRED DENSITY IS ACHIEVED. DENSITY SHALL BE DETERMINED BY AASHTO T238 METHOD AND SHALL NOT BE LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH AASHTO T99

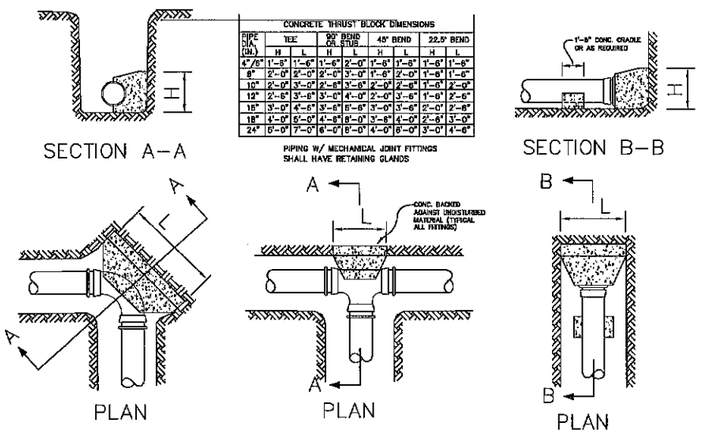
STATE OF NEW HAMPSHIRE CHRISTIAN G. SMITH No.9800 LICENSED PROFESSIONAL ENGINEER

REVISED PER ENG. REVIEW	1-7-21
REVISIONS:	DATE:

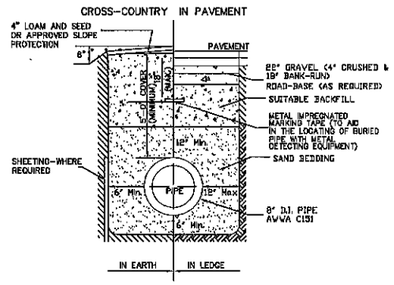
CONSTRUCTION DETAILS D1

PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

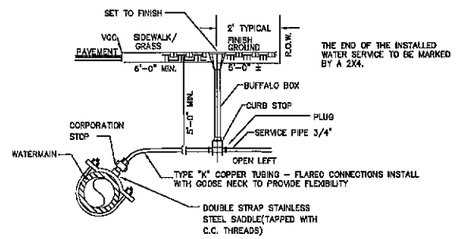
DATE:	AUG. 2020	SCALE	NTS'
PROJ. NO:	NH-1263	SHEET NO.	12 OF 15



THRUST BLOCK DETAILS



TYPICAL TRENCH DETAIL FOR WATER SYSTEM



TYPICAL WATER SERVICE CONNECTION

PREPARED FOR:
J&L TERRA HOLDINGS, INC.
79 EXETER ROAD
N. HAMPTON, N.H. 03862

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

NOTES

1) ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE: REFILL WITH BEDDING MATERIAL. (SEE NOTE 6 ALSO)

2) BEDDING: MINIMUM 12" SAND BLANKET AS SPECIFIED AND REMAINING FILL AS SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATERIAL AND MEETING ASTM C-33 STONE SIZE No. 67

100%	PASSING	1 INCH SCREEN
90–100%	PASSING	3/4 INCH SCREEN
20–55%	PASSING	3/8 INCH SCREEN
0–10%	PASSING	No. 4 SIEVE
0–5%	PASSING	No. 8 SIEVE

WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, GRADED SCREENED GRAVEL OR CRUSHED STONE 3/4 INCH TO 1-1/2 INCH SHALL BE USED.

3) SUITABLE MATERIAL IN ROADS, ROAD SHOULDERS, WALKWAYS, AND TRAVELED WAYS: SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SIX INCHES IN LARGEST DIMENSION.

4) FOR CROSS COUNTRY CONSTRUCTION: BACKFILL OR FILL SHALL BE MOUNDED TO A HEIGHT OF 6 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

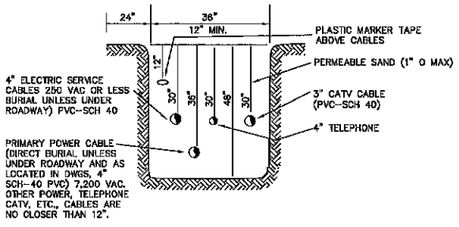
SEPERATION NOTES:

1. WATER MAIN RELATIONS TO SHALL BE IN ACCORDANCE WITH THE "RECOMMENDED STANDARDS FOR WATER WORKS" SO-CALLED TEN STATE STANDARDS AND NEW HAMPSHIRE WATER SUPPLY AND POLLUTION CONTROL DESIGN STANDARDS.

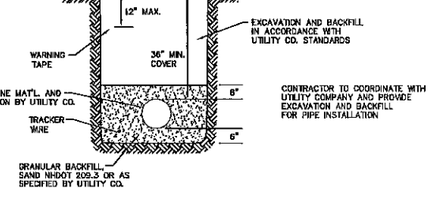
2. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWERS. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IF THIS DISTANCE CANNOT BE OBTAINED, THEN THE PIPES SHALL BE INSTALLED IN A SEPERATE TRENCH WITH A VERTICAL SPERATION AT LEAST 18 INCHES APART.

NOTE: ALL UTILITIES SHALL BE REVIEWED AND APPROVED BY APPROPRIATE UTILITY COMPANY.

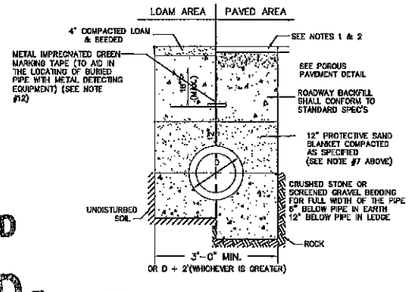
SERVICE BOX CONNECTIONS SHALL BE "FLUSH MOUNT" TO GREATEST EXTENT POSSIBLE AND LOCATED AT PROPERTY LINE CORNERS.



UTILITY TRENCH DETAIL

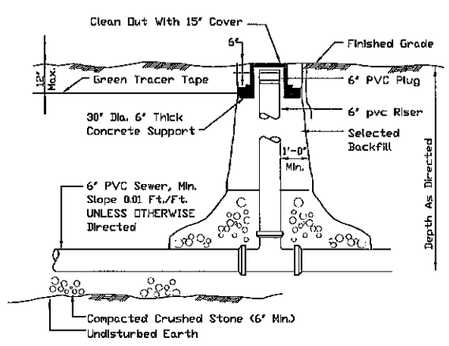


GAS TRENCH DETAIL

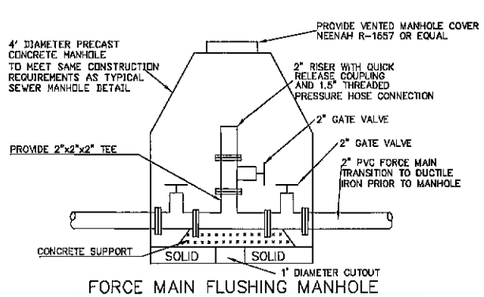


NOTE:
1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPEC'S.

TYPICAL SEWER TRENCH DETAIL
NOT TO SCALE



SEWER SERVICE CLEAN OUT



FORCE MAIN FLUSHING MANHOLE
NOT TO SCALE

PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SR
Date 6/29/2023
Chairman

REVISED PER ENG. REVIEW	1-7-21
REVISIONS:	DATE:

UTILITY DETAILS

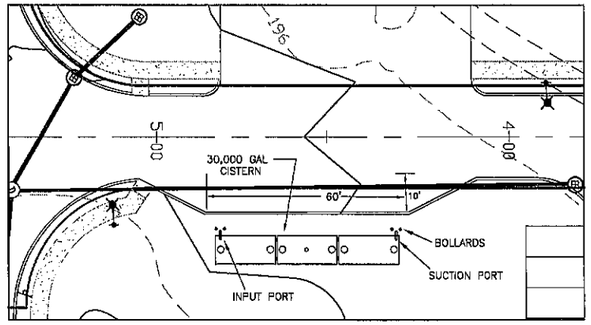
PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

DATE:	AUG. 2020	SCALE	1" = 40'
PROJ. NO:	NH-1263	SHEET NO.	13 OF 15

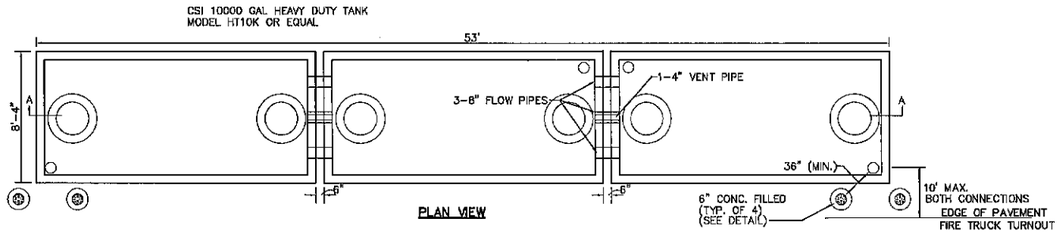
CISTERN SPECIFICATIONS

1. THE CISTERN SHALL BE DESIGNED TO BE TROUBLE FREE, AND IT SHALL BE DESIGNED TO LAST 50 YEARS.
2. THE MINIMUM CAPACITY SHALL BE 10,000 GALLONS. DEPENDING ON THE DEVELOPMENT LAYOUT/CONFIGURATION, ADDITIONAL GALLON REQUIREMENTS MAY BE IMPOSED AT THE DISCRETION OF THE FIRE CHIEF. ALL EXCEPTIONS, ADDITIONS, OR DELETIONS WILL BE IN WRITING.
3. THE SUCTION CAPACITY SHALL BE CAPABLE OF DELIVERING 1,000 GALLONS PER MINUTE (GPM) FOR THREE-QUATERS OF THE CISTERN CAPACITY.
4. THE ENTIRE CISTERN AND APPURTENANCES SHALL BE RATED FOR HS-20 HIGHWAY LOADING.
5. DRAWINGS OF THE DESIGN ARE FOR ESTIMATING GENERAL REQUIREMENT AND DESIGN PURPOSES ONLY AND ARE NOT INTENDED FOR USE AS DESIGN.
6. EACH CISTERN SHALL BE DESIGNED, SITED TO THE PARTICULAR LOCATION, STAMPED BY A REGISTERED ENGINEER, AND APPROVED BY THE FIRE CHIEF.
7. ALL SUCTION AND FILL PIPING SHALL BE AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) SCHEDULE 40 STEEL. ALL VENT PIPING SHALL BE ASTM SCHEDULE 40 STEEL WITH WELDED JOINTS. ALL PIPING LOCATED WITHIN THE TANK SHALL BE ASTM SCHEDULE 40 STEEL WITH WELDED JOINTS. ALL PIPING LEADING FROM THE TANK TO THE HYDRANT SHALL BE ASTM SCHEDULE 40 STEEL.
8. THE FINAL SUCTION CONNECTION SHALL BE FIVE INCH PUMPER NOZZLE WITH A CAP. THE SUCTION PIPE SHALL BE BRACED TO ENSURE DURABILITY DURING PUMPING OPERATIONS. THE FIRE CHIEF SHALL APPROVE BRACE CONFIGURATION AND INSTALLATION. THE SUCTION PIPE CONNECTION SHALL BE TWENTY-FOUR INCHES ABOVE THE LEVEL OF THE VEHICLE PAD WHERE VEHICLE WHEELS WILL BE LOCATED WHEN THE CISTERN IS IN USE.
9. THE FILLER CONNECTION SHALL BE INTALLED INTO THE EIGHT INCH VENT WITH 4" MALE STEEL STORZ FITTING. THIS FITTING SHALL BE 24" ABOVE FINISH GRADE AND FACE THE ROAD. A THIRTY-TWO INCH DIAMETER MANHOLE WITH COVER WILL BE LOCATED ON TOP OF THE CISTERN. THE CONFIGURATION OF THIS MANHOLE SHALL ALLOW THE UNIT TO BE SECURED WITH TWO PADLOCKS AND SHALL BE APPROVED BY THE FIRE CHIEF. THE PADLOCKS WILL BE SUPPLIED BY THE FIRE DEPARTMENT.
10. THE DISTANCE FROM THE BOTTOM OF THE SUCTION PIPE TO THE PUMPER CONNECTION SHALL NOT EXCEED FOURTEEN FEET VERTICAL.
11. ALL HORIZONTAL SUCTION PIPING SHALL SLOPE SLIGHTLY UPHILL TOWARD THE PUMPER CONNECTION.
12. BEDDING FOR THE CISTERN SHALL CONSIST OF A MINIMUM OF TWELVE INCHES OF 3/4" TO 1 1/2" WASHED PEA STONE, COMPACTED. NO FILL SHALL BE USED UNDER THE STONE. OVER EXCAVATION SHALL BE FILLED WITH THE SAME STONE BEDDING MATERIAL.
13. ALL BACKFILL MATERIALS SHALL BE SCREENED GRAVEL WITH NO STONES LARGER THAN SIX INCHES AND SHALL BE COMPACTED TO 95 PERCENT OF ITS ORIGINAL VOLUME IN ACCORDANCE WITH ASTM D 1557. 16. THE TOP OF CISTERN SHALL BE INSULATED WITH VERMIN RESISTANT FOAM INSULATION AND TWO FEET OF BACKFILL WITH A MINIMUM WEIGHT OF 120 PCF, COMPACTED. FOAM USED FOR THIS INSTALLATION SHALL BE CLOSED CELL POLYURETHANE FOAM WITH AN INSULATION FACTOR OF R=5 PER INCH. ALL BACKFILL SHALL EXTEND TEN FEET BEYOND THE EDGE OF THE VEHICLE PAD AND THEN HAVE A MAXIMUM OF 3:1 SLOPE, LOAM AND SEEDED.
14. BEFORE ANY BACKFILLING IS DONE THE ENTIRE CISTERN SHALL BE COMPLETED AND INSPECTED BY THE FIRE CHIEF.
15. AFTER BACKFILLING, BOLLARDS OR LARGE STONES SHALL BE PLACED TO PROTECT THE TANK AND APPURTENANCES.
16. THE PITCH OF THE SHOULDER AND VEHICLE PAD FROM THE EDGE OF THE PAVEMENT TO THE PUMPER SUCTION CONNECTION SHALL BE ONE PERCENT TO THREE PERCENT DOWNGRADE.
17. THE SHOULDER AND VEHICLE PAD SHALL BE OF A SUFFICIENT LENGTH TO ALLOW CONVENIENT ACCESS TO THE SUCTION CONNECTION WHEN THE PUMPER IS SET AT 45 DEGREES TO THE ROAD. THE SHOULDER AND VEHICLE PAD SECTION SHALL CONSIST OF 3" BITUMINOUS PAVING, REFER TO SITE PLAN FOR REQUIREMENTS.
18. THE SUCTION FITTING SHALL BE LOCATED BETWEEN 22 AND 24 FEET FROM THE NEAREST RUNNING EDGE OF ROAD PAVEMENT. TWO CONCRETE FILLED STEEL BOLLARDS SHALL BE PLACED IN A MANNER TO PROTECT THE HYDRANT. THE BASE OF THESE BOLLARDS SHALL EXTEND BELOW THE FROST LINE. THE UPPER PORTION OF THE BOLLARDS SHALL EXTEND THIRTY SIX INCHES ABOVE THE LEVEL OF THE VEHICLE PAD WHERE VEHICLE WHEELS WILL BE LOCATED WHEN THE CISTERN IS IN USE.
19. ALL CONSTRUCTION, BACKFILL, AND GRADING MATERIALS SHALL BE IN ACCORDANCE WITH PROPER CONSTRUCTION PRACTICES AND SHALL BE ACCEPTABLE TO THE FIRE CHIEF.
20. THE FIRE CHIEF (OR REPRESENTATIVE) AND THE ENGINEER'S INSPECTOR WILL BE NOTIFIED BY THE CONTRACTOR TO OBSERVE THE FOLLOWING POINTS OF INSTALLATION:
    A. EXCAVATION COMPLETE.
    B. CRUSHED STONE INSTALLED AND COMPACTED
    C. BACKFILLING COMPLETE PRIOR TO PLACEMENT OF INSULATION.
    D. PLACEMENT OF INSULATION.
    E. START AND FINISH OF LEAKAGE TEST.
    F. PIPING MANWAYS AND BOLLARDS IN PLACE AND PAINTED.
    G. ALL BACKFILLING LOAM, SEED, ETC. COMPLETE WITH TURNOUT GRAVEL IN PLACE AND GRADED.
    H. PAVEMENT COMPLETE, AND ALL OTHER WORK 100% COMPLETE.
21. THE FIRE CHIEF SHALL BE NOTIFIED OF THE DATE THAT SITE WORK IS TO BEGIN.
22. ANY EXCEPTION, ADDITIONS, OR DELETIONS ARE DATED AND NOTED BELOW:
23. CONCRETE MUST HAVE A MINIMUM OF 150 PCF.
24. STONE AND GRAVEL BACKFILL MUST HAVE A MINIMUM OF 120 PCF.

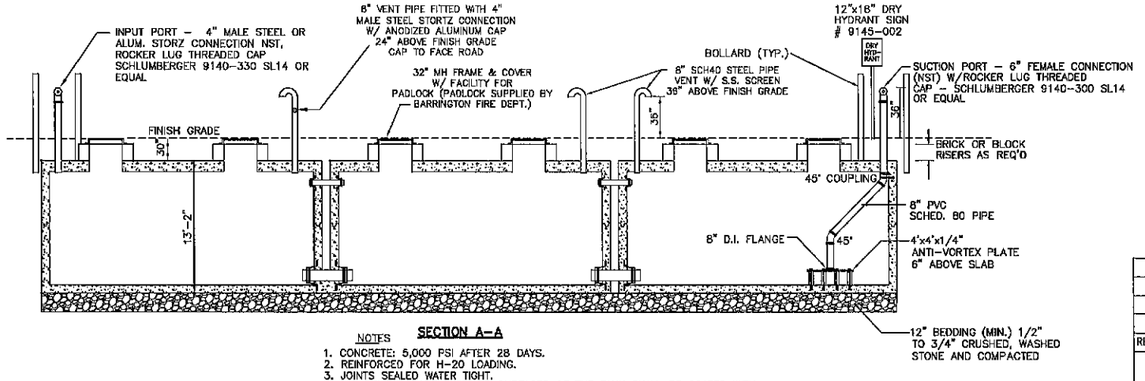
PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SR
Date 6/29/2023
Chairman



CISTERN SITE PLAN
SCALE: 1"=20'



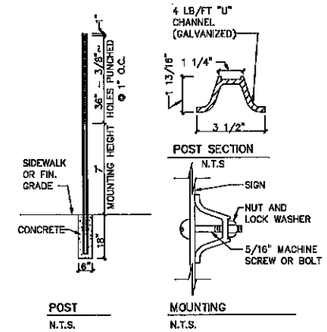
PLAN VIEW



SECTION A-A

NOTES
1. CONCRETE: 5,000 PSI AFTER 28 DAYS.
2. REINFORCED FOR H-20 LOADING.
3. JOINTS SEALED WATER TIGHT.
4. ALL BELOW GRADE EXTERIOR SURFACES OF THE TANK SHALL BE COATED WITH KOL-TAR'S BLACK SHIELD ASPHALT COATING, OR APPROVED EQUAL
5. CISTERN INSTALLATION MUST CONFORM WITH ALL LOCAL FIRE DEPARTMENT REQUIREMENTS.

PROPOSED 30,000 GAL. FIRE CISTERN DETAIL
NOT TO SCALE



STREET SIGN DETAIL
STOP SIGN (R1-1) 30" x 30"
SPEED LIMIT SIGN (R2-1) 24" x 30"

PREPARED FOR:

J&L TERRA HOLDINGS, INC.
79 EXETER ROAD
N. HAMPTON, N.H. 03862

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

TRAFFIC CONTROL SCHEDULE

SIGN NUMBER	SIGN	SIZE OF SIGN WIDTH	SIZE OF SIGN HEIGHT	DESCRIPTION	MOUNT TYPE	MOUNT HEIGHT
R1-1	STOP	30"	30"	WHITE ON RED	CHANNEL	7'-0"
R2-1	SPEED LIMIT 25	18"	24"	BLACK ON WHITE	CHANNEL	7'-0"
41-0342	22	30"	30"	BLACK ON YELLOW	CHANNEL	8'-6"
W14-2	DEAD END	24"	24"	BLACK ON YELLOW	CHANNEL	7'-0"

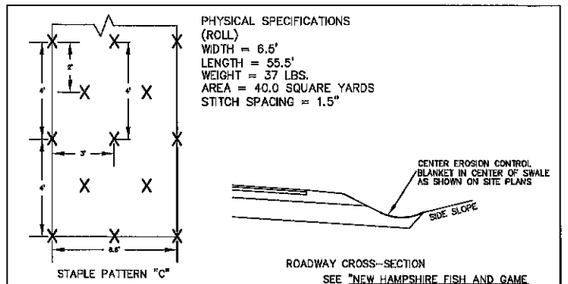
STATE OF NEW HAMPSHIRE
CHRISTIAN O. SMITH
No. 9900
PROFESSIONAL ENGINEER

REVISED PER ENG. REVIEW	1-7-21
REVISIONS:	DATE:

FIRE CISTERN DETAILS

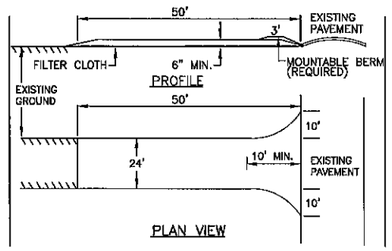
PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

DATE:	AUG. 2020	SCALE	NTS
PROJ. NO:	NH-1263	SHEET NO.	14 OF 15



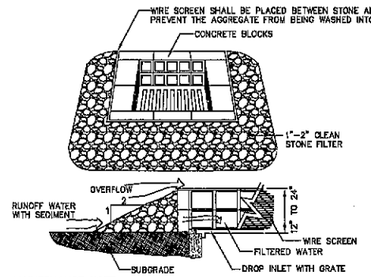
EAST COAST EROSION BLANKET ECC-2B
INSTALLATION DETAIL

SEE "NEW HAMPSHIRE FISH AND GAME AOT PERMIT CONDITIONS RELATED TO THREATENED AND ENDANGERED SPECIES" BULLET #3 ON THE COVER SHEET



1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE ENTRANCE WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICH EVER IS GREATER. 5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTH IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

STABILIZED CONSTRUCTION ENTRANCE

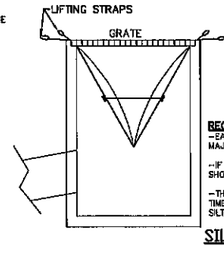


MAINTENANCE NOTE:

1. ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAINFALL AND REPAIRS MADE AS NECESSARY. SEDIMENT SHOULD BE REMOVED FROM TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED IN A SUITABLE UPLAND AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURE OR VEGETATIVE MEANS. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.

TEMPORARY CATCH BASIN INLET PROTECTION
(Block and Gravel Drop Inlet Sediment Filter)

NOT TO SCALE



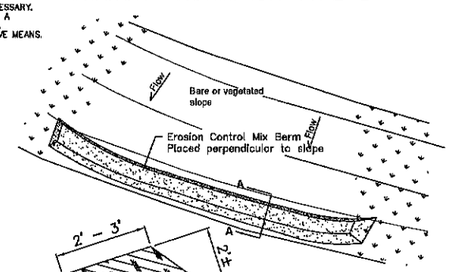
RECOMMENDED MAINTENANCE SCHEDULE
-EACH SILTSACK SHOULD BE INSPECTED AFTER EVERY MAJOR RAIN EVENT

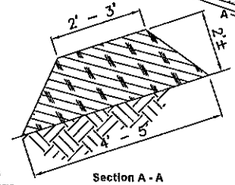
--IF THERE HAVE BEEN NO MAJOR EVENTS, SILTSACK SHOULD BE INSPECTED EVERY 2-3 WEEKS

-THE RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF CORD IS COVERED WITH SEDIMENT, THE SILTSACK SHOULD BE EMPTIED.

SILTSACK DETAIL
NOT TO SCALE

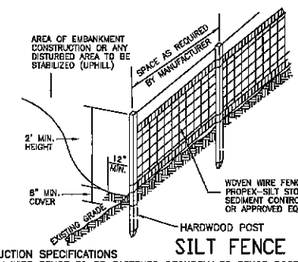
EROSION PROTECTION TYPE E





Mix material should consist of 30-50% large (1-3") particles. The organic matter content should be 25%-65%, dry weight basis. The organic matter may originate from a variety of vegetative sources, but needs to be fibrous and elongated. The mix shall be free of silt, clay, fine sand, refuse and contaminants or any material toxic to plant growth. Erosion Control Mix berms are effective filters for overland flow conditions and should not be used to filter concentrated flow such as that found in drainage ditchs, streams, etc.

Erosion Control Mix Berm



SILT FENCE

CONSTRUCTION SPECIFICATIONS
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8". 2. THE FENCE POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF.
5. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.
6. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED

MAINTENANCE
1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SEEDING RATES

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 Sq. Ft.
A. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
RED TOP	2	0.05
TOTAL	42	0.95
B. TALL FESCUE	15	0.35
CREEPING RED FESCUE	10	0.25
CROWN VETCH	15	0.35
OR		
FLAT PEA	30	0.75
TOTAL	40 OR 55	0.95 OR 1.35
C. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
BIRDS FOOT TREFOIL	5	0.20
TOTAL	48	1.10
D. TALL FESCUE	20	0.45
FLAT PEA	30	0.75
TOTAL	50	1.20
E. CREEPING RED FESCUE 1/	50	1.15
KENTUCKY BLUEGRASS 1/	50	1.15
TOTAL	100	2.30
F. TALL FESCUE 1	150	3.80

1/ FOR HEAVY USE ATHLETIC FIELDS CONSULT THE UNIVERSITY OF NEW HAMPSHIRE COOPERATIVE EXTENSION TURF SPECIALIST FOR CURRENT VARIETIES AND SEEDING RATES.

TEMPORARY EROSION CONTROL MEASURES

1. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT NO MORE THAN 5 ACRES OF LAND SHALL BE EXPOSED BEFORE DISTURBED AREAS ARE STABILIZED*.
2. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED OR DIRECTED BY THE ENGINEER ALL DISTURBED AREAS SHALL BE RETURNED TO ORIGINAL GRADES AND ELEVATIONS.
3. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH NOT LESS THAN 1.10 POUNDS OF SEED PER 1000 SQUARE FEET OF AREA. (40 POUNDS PER ACRE) SEE SEED SPECIFICATIONS THIS SHEET.
4. SILT FENCES AND OTHER EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY RAIN EVENT GREATER THAN 0.5" DURING THE LIFE OF THE PROJECT. ALL DAMAGED AREAS SHALL BE REPAIRED, SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
5. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
6. AREAS MUST BE SEEDED AND MULCHED WITHIN 3 DAYS OF FINAL GRADING, PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF SOIL.

* AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
- BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
- A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.
- A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS RIPRAP HAS BEEN INSTALLED.
- EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

CONSTRUCTION SPECIFICATIONS

1. STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.
2. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED.
3. WHEN TIMBER STRUCTURES ARE USED, THE TIMBER SHALL EXTEND AT LEAST 18" INTO THE SOIL.
4. STRAW BALES SHALL BE ANCHORED INTO THE SOIL USING 2" X 2" STAKES DRIVEN THROUGH THE BALES AND AT LEAST 18 INCHES IN TO THE SOIL.
5. SEEDING, FERTILIZING, AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS IN THE APPROPRIATED VEGETATIVE BMP.
6. STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.
7. THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL TAKE PRECAUTIONS AND INSTRUCTIONS FROM THE PLANNING DEPARTMENT IN ORDER TO PREVENT, ABATE AND CONTROL THE EMISSION OF FUGITIVE DUST INCLUDING BUT NOT LIMITED TO WETTING, COVERING, SHIELDING, OR VACUUMING.
8. THE NH COMMISSIONER OF AGRICULTURE PROHIBITS THE COLLECTION, POSSESSION, IMPORTATION, TRANSPORTATION, SALE, PROPAGATION, TRANSPLANTATION, OR CULTIVATION OF PLANTS BANNED BY NH LAW RSA 430:53 AND NH CODE ADMINISTRATIVE RULES AGR 3800. THE PROJECT SHALL MEET ALL REQUIREMENTS AND THE INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES
9. THE CONSTRUCTION SITE OPERATOR AND OWNER SHALL SUBMIT A NOTICE OF INTENT (NOI) TO USEPA, WASHINGTON, DC, STORMWATER NOTICE PROCESSING CENTER AT LEAST FORTEEN DAYS PRIOR TO COMMENCEMENT OF WORK ON SITE. EPA WILL POST THE NOI AT http://cfpubl.epa.gov/npdes/stormwater/noi/noisearch.cfm. AUTHORIZATION IS GRANTED UNDER THE PERMIT ONCE THE NOI IS SHOWN IN "ACTIVE STATUS".

CONSTRUCTION SEQUENCE

1. CUT AND REMOVE TREES IN CONSTRUCTION AREAS AS REQUIRED OR DIRECTED.
2. CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES AS REQUIRED. EROSION, SEDIMENT AND DETENTION CONTROL FACILITIES SHALL BE INSTALLED AND STABILIZED PRIOR TO ANY EARTH MOVING OPERATION AND PRIOR TO DIRECTING RUNOFF TO THEM. RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMP'S ARE STABILIZED.
3. CLEAR, CUT, GRUB AND DISPOSE OF DEBRIS IN APPROVED FACILITIES. STUMPS AND DEBRIS ARE TO BE REMOVED FROM SITE AND DISPOSED OF PER STATE AND LOCAL REGULATIONS.
4. EXCAVATE AND STOCKPILE TOPSOIL /LOAM. ALL AREAS SHALL BE STABILIZED IMMEDIATELY AFTER GRADING.
5. CONSTRUCT TEMPORARY CULVERTS AS REQUIRED OR DIRECTED.
6. CONSTRUCT THE ROADWAY/DRIVEWAYS AND ITS ASSOCIATED DRAINAGE STRUCTURES. ALL ROADWAYS, PARKING AREAS, AND CUT/FILL SLOPES SHALL BE STABILIZED AND/OR LOAMED AND SEEDED WITHIN 72-HOURS OF ACHIEVING FINISH GRADE AS APPLICABLE.
7. INSTALL PIPE AND CONSTRUCTION ASSOCIATED APPURTENANCES AS REQUIRED OR DIRECTED. ALL DISTURBED AREAS SHALL STABILIZED IMMEDIATELY AFTER GRADING.
8. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEEDED OR MULCHED AS REQUIRED, OR DIRECTED.
9. DAILY OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE CHECK DAMS, DITCHES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION ON THE SITE AND PREVENT ANY SILTATION OF ABUTTING WATERS OR PROPERTY.
10. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION
11. COMPLETE PERMANENT SEEDING AND LANDSCAPING
12. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE ESTABLISHED THEMSELVES AND SITE IMPROVEMENTS ARE COMPLETE, SMOOTH AND REVEGETATE ALL DISTURBED AREAS.
13. ALL SWALES AND DRAINAGE STRUCTURES WILL BE CONSTRUCTED AND STABILIZED PRIOR TO HAVING RUNOFF DIRECTED TO THEM.
14. FINISH PAVING ALL ROADWAYS/DRIVEWAYS.
15. LOT DISTURBANCE OTHER THAN THAT SHOWN ON THE APPROVED PLANS SHALL NOT COMMENCE UNTIL THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.

WINTER MAINTENANCE

1. ALL DISTURBED AREAS THAT DO NOT HAVE AT LEAST 85% VEGETATIVE COVERAGE PRIOR TO OCTOBER 15TH, SHALL BE STABILIZED BY APPLYING MULCH AT A RATE OF 3-4 TONS PER ACRE. ALL SIDE SLOPES, STEEPER THAN 4:1, THAT ARE NOT DIRECTED TO SWALES OR DETENTION BASINS, SHALL BE LINED WITH BIODEGRADABLE/PHOTODEGRADABLE "JUTE MATTING" (EXCELSIOR'S CURLEX II OR EQUAL). ALL OTHER SLOPES SHALL BE MULCHED AND TACKED AT A RATE OF 3-4 TONS PER ACRE. THE APPLICATION OF MULCH AND/OR JUTE MATTING SHALL NOT OCCUR OVER EXISTING SNOW COVER. IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY SNOW THAT ACCUMULATES ON DISTURBED AREAS SHALL BE REMOVED. PRIOR TO SPRING THAW ALL AREAS WILL BE STABILIZED, AS DIRECTED ABOVE.

2. ALL SWALES THAT DO NOT HAVE FULLY ESTABLISHED VEGETATION SHALL BE EITHER LINED WITH TEMPORARY JUTE MATTING OR TEMPORARY STONE CHECK DAMS (APPROPRIATELY SPACED). STONE CHECK DAMS WILL BE MAINTAINED THROUGHOUT THE WINTER MONTHS. IF THE SWALES ARE TO BE MATTED WITH PERMANENT LINERS OR RIPRAP WITH ENGINEERING FABRIC, THIS SHALL BE COMPLETED PRIOR TO WINTER SHUTDOWN OR AS SOON AS THEY ARE PROPERLY GRADED AND SHAPED.

3. PRIOR TO OCT. 15TH ALL ROADWAY AND PARKING AREAS SHALL BE BROUGHT UP TO AND THROUGH THE BANK RUN GRAVEL APPLICATION. IF THESE AREAS' ELEVATIONS ARE PROPOSED TO REMAIN BELOW THE PROPOSED SUBGRADE ELEVATION, THE SUBGRADE MATERIAL SHALL BE ROUGHLY CROWNED AND A 3" LAYER OF CRUSHED GRAVEL SHALL BE PLACED AND COMPACTED. THIS WILL ALLOW THE SUBGRADE TO SHED RUNOFF AND WILL REDUCE ROADWAY EROSION. THIS CRUSHED GRAVEL DOES NOT HAVE TO CONFORM TO NH DOT 304.3, BUT SHALL HAVE BETWEEN 15-25% PASSING THE #200 SIEVE AND THE LARGEST STONE SIZE SHALL BE 2". IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY ACCUMULATED SNOW SHALL BE REMOVED FROM ALL ROADWAY AND PARKING AREAS.

4. AFTER OCTOBER 15TH, THE END OF NEW HAMPSHIRE'S AVERAGE GROWING SEASON, NO ADDITIONAL LOAM SHALL BE SPREAD ON SIDE SLOPES AND SWALES. THE STOCKPILES THAT WILL BE LEFT UNDISTURBED UNTIL SPRING SHALL BE SEEDED BY THIS DATE. AFTER OCTOBER 15TH, ANY NEW OR DISTURBED PILES SHALL BE MULCHED AT A RATE OF 3-4 TONS PER ACRE. ALL STOCKPILES THAT WILL REMAIN THROUGHOUT THE WINTER SHALL BE SURROUNDED WITH SILT FENCING.

SEEDING SPECIFICATIONS

1. GRADING AND SHAPING
   A. SLOPES SHALL NOT BE STEEPER THAN 2:1;3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
2. SEEDBED PREPARATION
   A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
   B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
3. ESTABLISHING A STAND
   A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
   AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS PER 1,000 SQ. FT.,
   NITROGEN(N), 50 LBS PER ACRE OR 1. 1 LBS PER 1,000 SQ.FT.
   PHOSPHATE(P2O5), 100 LBS PER ACRE OR 2. 2 LBS PER 1,000 SQ.FT.
   POTASH(K2O), 100 LBS PER ACRE OR 2. 2 LBS PER 1,000 SQ.FT.
   (NOTE: THIS IS THE EQUIVALENT OF 500 LBS PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS PER ACRE OF 5-10-10.)
   B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
   C. REFER TO TABLE(G-E1 THIS SHEET) FOR APPROPRIATE SEED MIXTURES AND TABLE(H-E1 THIS SHEET) FOR RATES OF SEEDING. ALL LEGUMES (CROWN VETCH, BIRDS FOOT TREFOIL, AND FLAT PEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT.
   D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.
4. MULCH
   A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
   B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90 LBS PER 1000 SQ. FT.
5. MAINTENANCE TO ESTABLISH A STAND
   A. PLANTED AREA SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
   B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER APPLICATIONS ARE THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIAL STAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
   C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE DESIRABLE, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

SEEDING GUIDE

USE	SEEDING MIXTURE 1/	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, DIVERSION AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	FAIR	FAIR
	C	POOR	GOOD	EXCELLENT	GOOD
	D	FAIR	FAIR	GOOD	EXCELLENT
	E	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS AND OTHER CHANNELS WITH FLOWING WATER.	A	GOOD	GOOD	GOOD	FAIR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
	D	GOOD	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES.	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	FAIR	POOR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
	D	FAIR	GOOD	GOOD	EXCELLENT
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	F	FAIR	EXCELLENT	EXCELLENT	2/
	G	FAIR	EXCELLENT	EXCELLENT	2/

GRAVEL PIT, SEE NH-PN-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.

1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE 7-36.
2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.

NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR OATS AT A RATE OF 2.5 LBS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO OCT. 15, IF PERMANENT SEEDING NOT YET COMPLETE.

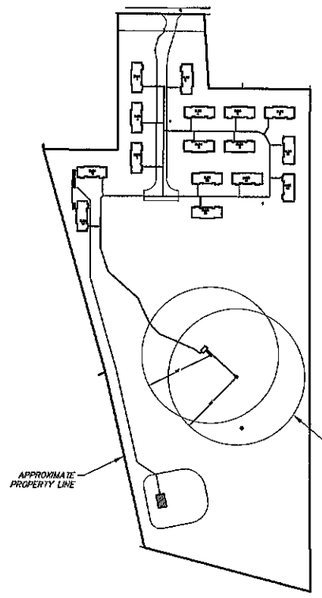
PLANNING BOARD
BARRINGTON, NH
APPROVED
File Number 238-36-V-20-SP
Date 6/29/2023
Chairman

REVISED PER NHDES AoT RMI	7-26-21
REVISED PER ENG. REVIEW	1-7-21
REVISIONS:	DATE:

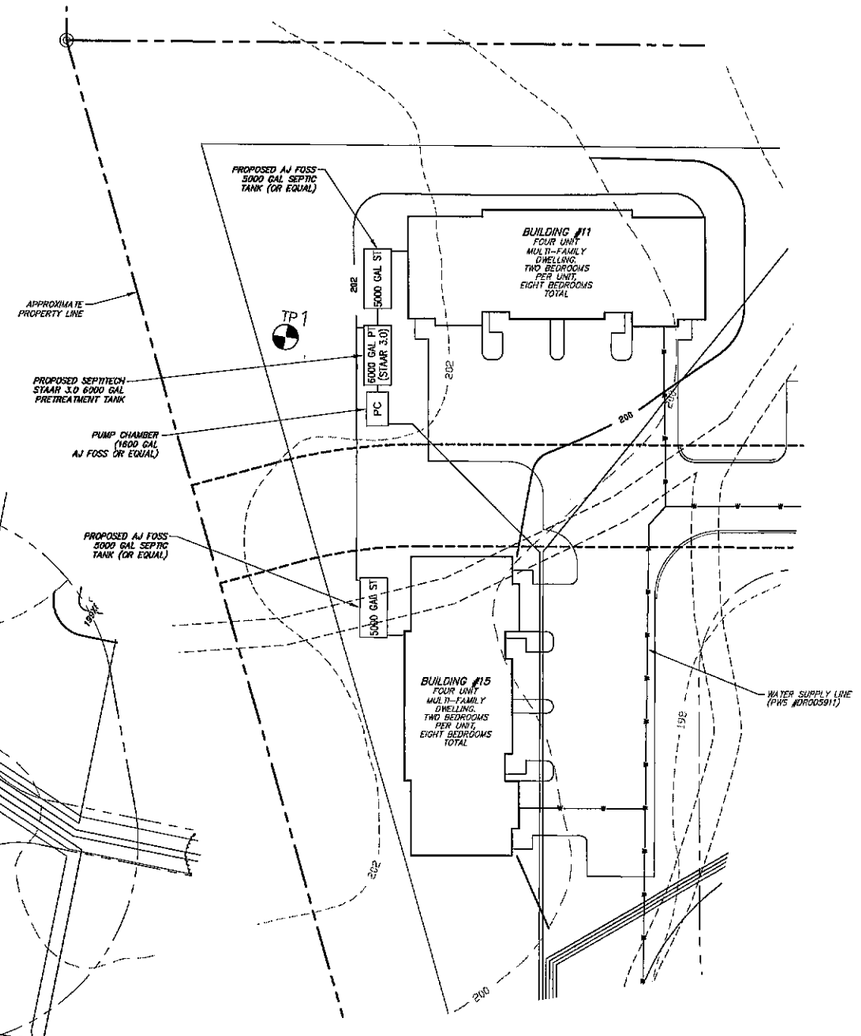
EROSION & SEDIMENTATION

PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

DATE:	AUG. 2020	SCALE	NTS
PROJ. NO:	N11-1263	SHEET NO.	15 OF 15



OVERALL SITE PLAN
1" = 200'



REVIEWED AND APPROVED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 4/18/2023
#CA20230411019

PLANNING BOARD
BARRINGTON, NH
APPROVED
File Number 238-36-V-20-SP
Date 6/29/2023
Chairman

TP TEST PIT LOGS

TEST PITS PERFORMED DECEMBER 20, 2022

TEST PIT "709"

DEPTH(")	DESCRIPTION
0–8"	10YR 3/2 LOAMY SAND, GRANULAR, FRIABLE
8–17"	10YR 5/6 LOAMY SAND, GRANULAR, FRIABLE
17–38"	10YR 6/4 SAND, MASSIVE, FRIABLE
38–75"	10YR 7/3 SAND, MASSIVE, FRIABLE 10% REDOX

ESHWT = 38". REFUSAL: ROOTS TO:
OBSERVED GROUND WATER: RESTRICTIVE LAYER:

SITE NOTES:

1. GRADING SHOWN IS FOR SEPTIC SYSTEM ONLY. ADDITIONAL GRADING IS AT THE DISCRETION OF THE CONTRACTOR AND/OR OWNER.
2. PER ENV-WQ 1003.13 (A)(3) THERE ARE NO KNOWN CEMETERIES LOCATED WITHIN 100' OF ANY PART OF THE EFFLUENT DISPOSAL SYSTEM. NO CONSTRUCTION TO TAKE PLACE WITHIN 25' OF BURIAL SITE, SEE ENV-WQ 1008.04(I).
3. NH-DES REQUIRES A PERIMETER DRAIN IF THE SLAB IS LESS THAN 18" TO THE SHWT. CERTAIN TOWNS REQUIRE A PERIMETER DRAIN AT ALL TIMES – CHECK LOCAL REGULATIONS. IT IS THE RECOMMENDATION OF THIS OFFICE A PERIMETER DRAIN BE INSTALLED REGARDLESS.
4. BEST MANAGEMENT PRACTICES ARE TO BE FOLLOWED DURING ALL CONSTRUCTION TO PREVENT SITE ALTERATION THAT MAY CAUSE EROSION AND/OR DRAINAGE ISSUES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE FOUNDATION IN SUCH A MANNER AS TO PREVENT WATER INFILTRATION IN THE BASEMENT.

DESIGN NOTES

DESIGN PERC RATE:
4 MIN/IN

HYDRAULIC LOADING: 2,400 GPD
2 BUILDINGS, 4 UNITS PER BUILDING,
2 BEDROOMS (300 GPD) PER UNIT =
2 X 4 X 300 = 2,400 GPD

EFFLUENT DISPOSAL AREA:
REQUIRED: 2400 GPD/100 = 24 X 140 SF PER 100 GPD = 3360 SF
3360 SF X(75% PRETREATMENT REDUCTION = 840 SF
+ 140 SF (100 GPD WELL BACKWASH) = 980 SF
PROVIDED: 25' X 40' = 1000 S.F.

NEAREST ABUTTING WELL: 75' +
NEAREST SURFACE WATER: 75' +
NEAREST POORLY DRAINED WETLAND: 50' +
NEAREST VERY POORLY DRAINED WETLAND: 75' +

USSCS SOIL CLASSIFICATION:
260 – WINDSOR
WEB SOIL SURVEY/SITE SPECIFIC SOIL SURVEY

BENCH MARKS: AS SHOWN

DESIGN INTENT:
THE BOTTOM OF THE EFFLUENT DISPOSAL AREA SHALL BE CONSTRUCTED AT EL. 201.83

THIS IS APPROXIMATELY 10" (.83') ABOVE THE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE EFFLUENT DISPOSAL SYSTEM, EL. 201.00

DIMENSIONS – EFFLUENT DISPOSAL AREA:
WIDTH = 25.0'
LENGTH = 40.0'
DIAGONAL = 47.2'

WETLAND NOTES

WETLANDS HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.06 BY GOVE ENVIRONMENTAL SERVICES, INC IN THE SPRING OF 2020.

****THIS PLAN IS NOT A SURVEY****

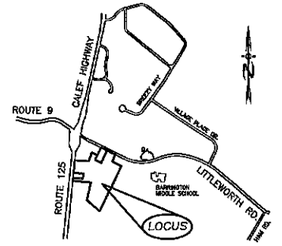
THE BUILDER/SITE CONTRACTOR IS RESPONSIBLE TO CONFIRM THE ZONING DIMENSIONAL REQUIREMENTS AND SETBACK LINE REQUIREMENTS PRIOR TO INITIATING CONSTRUCTION OF THE PROPOSED HOUSE AND SEPTIC SYSTEM. THE ZONING ORDINANCE OF THE MUNICIPALITY IS TO BE COMPLIED WITH. THE BUILDER/SITE CONTRACTOR IS ALSO RESPONSIBLE TO CONTACT THE MUNICIPALITY REGARDING INSPECTIONS PRIOR TO AND DURING CONSTRUCTION, I.E. LOCATION AND BED-BOTTOM INSPECTIONS. THIS PLAN IS NOT INTENDED TO BE USED AS A SITE PLAN

GRAPHIC SCALE
20 0 10 20 40
(1 INCH = 20 FEET)

OWNER OF RECORD

J & L TERRA HOLDINGS INC.
79 EXETER ROAD
NORTH HAMPTON, NH

LOCUS MAP



GENERAL NOTES

CONTRACTOR TO VERIFY ALL ELEVATIONS, INCLUDING TBM'S IN THE FIELD PRIOR TO CONSTRUCTION

FILL TO BE MEDIUM TO COARSE-TEXTURED SAND (0.25mm–2.0mm)

REMOVE TOPSOIL BEFORE PLACING FILL

4 INCH THICK LOAM & SEED AROUND PERIMETER OF FILL

SIDE SLOPES OF FILL= 3(HORIZONTAL): 1(VERTICAL)

75' SETBACK FROM HYDRIC A SOILS

50' SETBACK FROM HYDRIC B SOILS

NO VEHICULAR NOR LIVESTOCK TRAVEL NOR SNOW REMOVAL ALLOWED IN AREA OF SYSTEM.

CONCRETE STRUCTURE TO BE WATER TIGHT; ALL CONNECTIONS BETWEEN THE SEPTIC TANK AND THE PIPES LEADING TO AND EXITING FROM THE SEPTIC TANK SHALL BE SEALED WITH A WATER TIGHT, FLEXABLE JOINT CONNECTOR.

SYSTEM WILL BE REPLACED IN SAME LOCATION IN EVENT OF FAILURE.

RECOMMENDED CLEANING SEPTIC TANK AT LEAST ONCE EVERY 2 YEARS, OR AS NEEDED.

CROWN SYSTEM TO SHED RAINWATER.

SLOPE SYSTEM AWAY FROM HOUSE.

NO SURFACE WATER OR WELLS WITHIN 75'.

3' FT. FILL EXTENSION.

BED BOTTOM INSPECTION REQUIRED

ALL WATER LINE CROSSINGS MUST MEET ENV-WQ 1009.02.

PROVIDE CLEAN-OUTS AS NEEDED PER ENV-WQ 1009.03.

PLAN INTENT

THE INTENT OF THIS PLAN IS TO PROVIDE AN APPROVED EFFLUENT DISPOSAL AREA TO HANDLE THE LOADING FOR TWO BUILDINGS WITH 4 UNITS EACH, 2 BEDROOMS PER UNIT (BUILDINGS #11 & 15).

PHASE I
THE 16 BUILDINGS CONSTRUCTED IN THIS PHASE INCLUDE BUILDING NUMBERS ONE THROUGH 16.

DESIGNER STAMP

NEW HAMPSHIRE
Designer of Subsurface Disposal Systems
Christian O. Smith
No. 1543
Department of Environmental Services

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

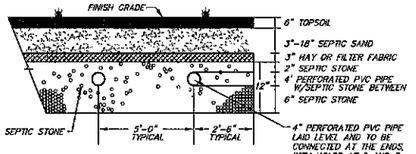
REVISIONS:	DATE:

DATE: FEBRUARY 2023 SCALE: 1"=20'

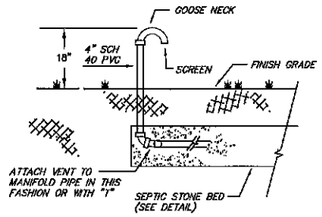
Title:
PHASE I LEACH FIELDS
BUILDINGS 11 & 15
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH

EFFLUENT DISPOSAL PLAN

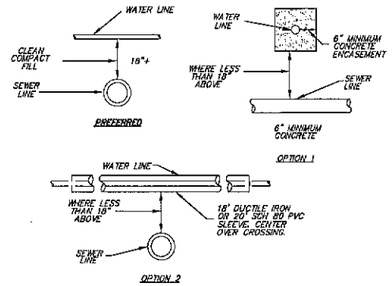
PROJECT NUMBER: NH-1263 SHEET NUMBER: 1 OF 2



STONE AND PIPE FIELD CROSS SECTION
N.T.S.

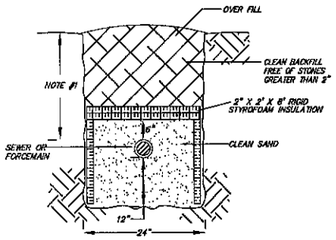


LOW VENT DETAIL
NTS



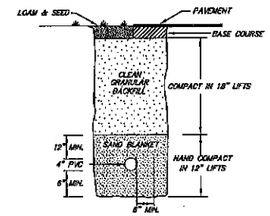
WATER / SEWER LINE CROSSING
NTS

NOTES:
1. WHEREVER POSSIBLE THE WATER LINE SHALL CROSS 18"+ ABOVE THE SEWER LINE.
2. THIS DETAIL ALSO APPLIES TO EFFLUENT FORCEMAINS.



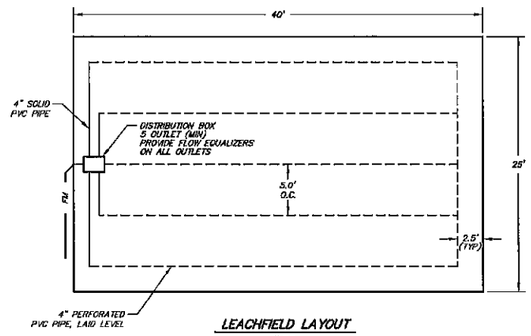
NOTES:
1. INSULATE SEWER OR FORCEMAIN WHERE PIPE WILL BE LESS THAN 6' BELOW PLOWED AREAS OR LESS THAN 4' BELOW AREAS RUNNING CROSS COUNTRY
2. GAPS BETWEEN SECTIONS OF INSULATION TO BE COVERED WITH 2' X 2' X 2" PIECE OF INSULATION CENTERED OVER GAP.

PIPE INSULATION DETAIL
FOR EFFLUENT SEWER OR FORCEMAIN
N.T.S.

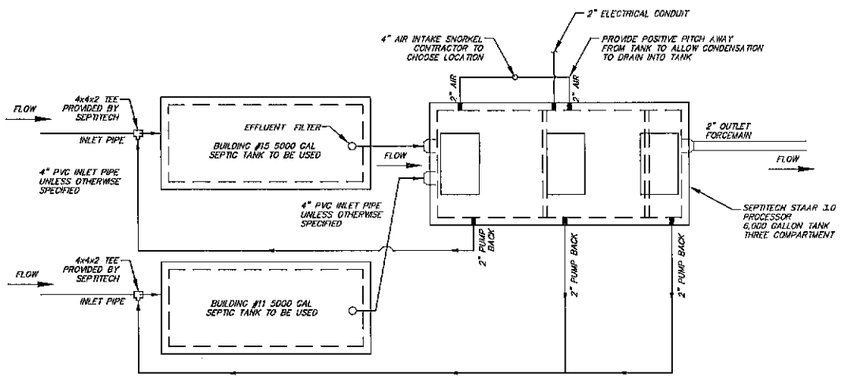


NOTES:
1. MINIMUM COVER SHALL BE 6'+ FOR PLOWED AREAS, 4'+ FOR CROSS COUNTRY
2. MULTIPLE PIPES IN THE SAME TRENCH SHALL BE SEPARATED BY 12"+

STANDARD TRENCH DETAIL
FOR EFFLUENT SEWER OR FORCEMAIN
N.T.S.



LEACHFIELD LAYOUT
N.T.S.



GENERAL NOTES

TANK(S) SHALL NOT BE INSTALLED AT A DEPTH ANY GREATER THAN 24-INCHES. TANK INSTALLATIONS REQUIRING A DEPTH GREATHER THAN 24-INCHES SHALL DO SO WITH PRIOR APPROVAL BY SEPTITECH ONLY. ANY RISERS REQUIRED TO BRING THE ALUMINUM HATCHES TO GRADE ARE THE RESPONSIBILITY OF THE CONTRACTOR.

TANK(S) SHALL BE INSTALLED WITH A MINIMUM OF 12-INCHES OF COMPACTED CRUSHED STONE BEDDING. SELECT FILL SHALL BE USED FOR BACKFILLING AROUND TANKS. NATIVE MATERIAL MAY BE USED IF APPROVED BY THE DESIGN ENGINEER.

WATER TESTING: CONTRACTOR IS RESPONSIBLE FOR WATER TESTING THE CONCRETE TANK(S) ONCE THE TANK(S) INSTALLATION HAS BEEN COMPLETED AND ALLOWED TO SET OVERNIGHT. WATER TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C1227-9.2. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CLEAN WATER FOR THE TESTING, FILLING THE TANK(S), AND PUMPING THE TANKS DRY ONCE TESTING IS COMPLETED.

EXTERIOR PIPING: CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL EXTERIOR PIPING PER SEPTITECH INSTALLATION DRAWINGS.

AIR INTAKE PIPING: AIR INTAKE SNORKEL SHALL BE INSTALLED WITHIN 100 FEET OF THE PROCESSOR TANK. AIR INTAKE PIPING SHALL BE INSTALLED SUCH THAT A POSITIVE PITCH IS PROVIDED BACK TOWARDS THE PROCESSOR TANK SUCH THAT ANY CONDENSTAION BUILD UP IS FREE TO DRAIN.

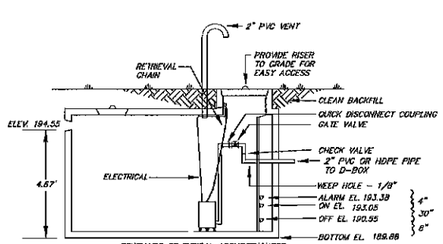
PIPE INSULATION: CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL PIPING EXTERIOR TO THE SEPTITECH PROCESSOR INCLUDING THE DISCHARGE LINE FROM THE PROCESSOR TO THE DISPOSAL FIELD.

TANK INSULATION: AFTER CONCRETE TANKS HAVE BEEN INSTALLED AND WATER TESTING IS COMPLETED, CONTRACTOR SHALL INSULATE THE TOP AND SIDES OF THE PROCESSOR TANK BELOW FROST DEPTH (4-FEET MINIMUM) DOWN THE SIDES OF THE TANK WITH 2" RIGID FOAM (BLUE) BOARD INSULATION AND THEN COMPLETE BACKFILLING. CONTRACTOR IS ALSO RESPONSIBLE FOR INSTALLING INSULATION OVER THE TOP OF THE FORCEMAIN FROM THE SEPTITECH SYSTEM TO THE DISPOSAL FIELD IF NOT BURIED BELOW FROST LEVEL IN ORDER TO PREVENT FREEZING.

ELECTRICAL: ALL ELECTRICAL WORK IS THE RESPONSIBILITY OF THE CONTRACTOR'S LICENSED ELECTRICIAN AND IS NOT PROVIDED BY SEPTITECH. SYSTEM CONTROLLER SHOULD BE INSTALLED IN A HEATED BUILDING WHERE AN AMBIENT TEMPERATURE RANGE OF 60 TO 90 DEGREES F IS MAINTAINED. IF THE CONTROL PANEL MUST BE LOCATED OUTSIDE, PLEASE NOTIFY SEPTITECH, INC. SO A HEATER MAY BE INSTALLED WITHIN THE ENCLOSURE.

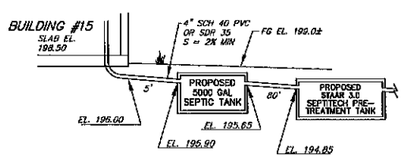
SEPTITECH PROCESSORS CAN ALSO BE BUILT TO 3-PHASE POWER REQUIREMENTS. IF 3-PHASE IS REQUIRED, PLEASE NOTIFY SEPTITECH AT THE TIME OF CONTRACT SIGNING.

INTERNET: CONTRACTOR IS RESPONSIBLE FOR INSTALLING AN INTERNET LINE TO THE PROCESSOR CONTROL PANEL FOR THE TELEMETRY. ANY WORK PERFORMED ON THE SYSTEM WITHOUT THE INSTALLATION OF THE INTERNET LINE SHALL BE AT THE EXPENSE OF THE OWNER.

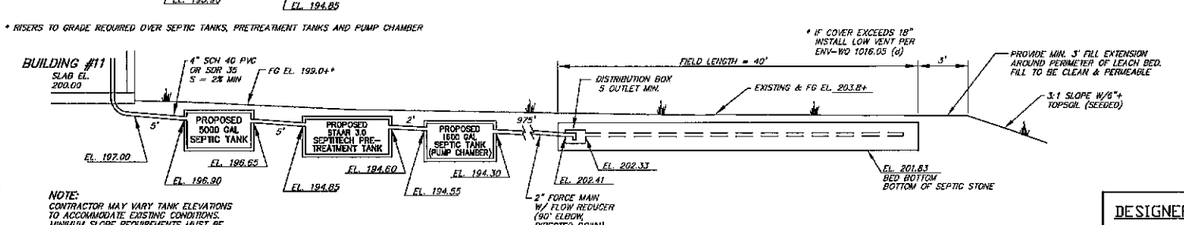


PUMP DETAIL
N.T.S.

PUMP NOTES
1" DRAW DOWN = 32 GALS.±. PUMP TO BE SET TO DOSES OF 980 GALS./CYCLE. PUMP TO BE CAPABLE OF 125 GPM AT A TOTAL HEAD OF 12 FEET. RECOMMENDED MYERS MM150 DUPLEX SEWAGE PUMPS OR EQUIVALENT
APPROX. RUNNING TIME WITH PUMP SPECIFIED TO = 8 MIN. ±



* RISERS TO GRADE REQUIRED OVER SEPTIC TANKS, PRETREATMENT TANKS AND PUMP CHAMBER



NOTE:
CONTRACTOR MAY VARY TANK ELEVATIONS TO ACCOMMODATE EXISTING CONDITIONS. MINIMUM SLOPE REQUIREMENTS MUST BE MAINTAINED.

SYSTEM PROFILE
N.T.S.

REVIEWED AND APPROVED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 4/19/2023
#CA202304019

PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SD
Date 6/29/2023
Chairman

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE, THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

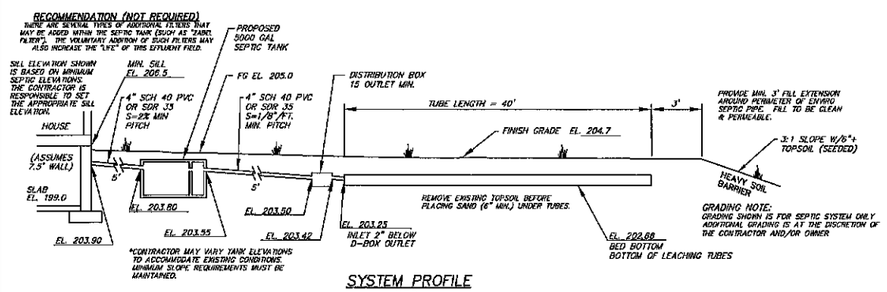
REVISIONS:	DATE:

DATE: FEBRUARY 2023 SCALE: AS SHOWN

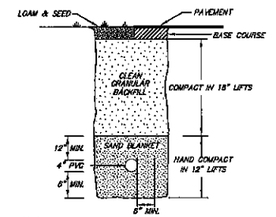
DESIGNER STAMP
NEW HAMPSHIRE Designer of Subsurface Disposal Systems
Christina C. Smith No. 1043
Department of Environmental Services

Title:
PHASE I LEACH FIELDS
BUILDINGS 11 & 15
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH
EFFLUENT DISPOSAL PLAN

PROJECT NUMBER: NH-1263 SHEET NUMBER: 2 OF 2

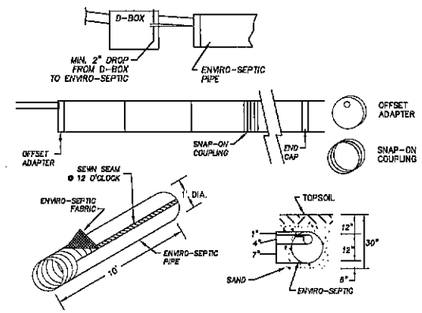


SYSTEM PROFILE
N.T.S.

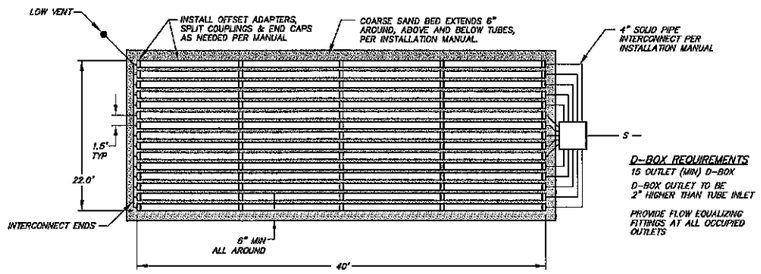


NOTES:
1. MINIMUM COVER SHALL BE 6'+ FOR PLOWED AREAS, 4'+ FOR GROSS COUNTRY
2. MULTIPLE PIPES IN THE SAME TRENCH SHALL BE SEPARATED BY 12'+

STANDARD TRENCH DETAIL
FOR EFFLUENT SEWER OR FORCEMAIN
N.T.S.

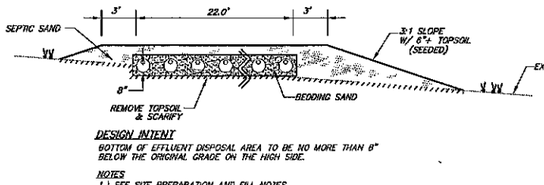


ENVIRO-SEPTIC PIPE DETAIL
N.T.S.



LEACHING TUBE LAYOUT
NOT TO SCALE

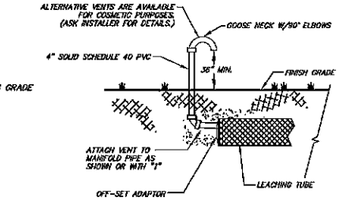
D-BOX REQUIREMENTS
15 OUTLET (MIN) D-BOX
D-BOX OUTLET TO BE 2" HIGHER THAN TUBE INLET
PROVIDE FLOW EQUALIZING FITTINGS AT ALL OCCUPIED OUTLETS



DESIGN INTENT
BOTTOM OF EFFLUENT DISPOSAL AREA TO BE NO MORE THAN 8" BELOW THE ORIGINAL GRADE ON THE HIGH SIDE.

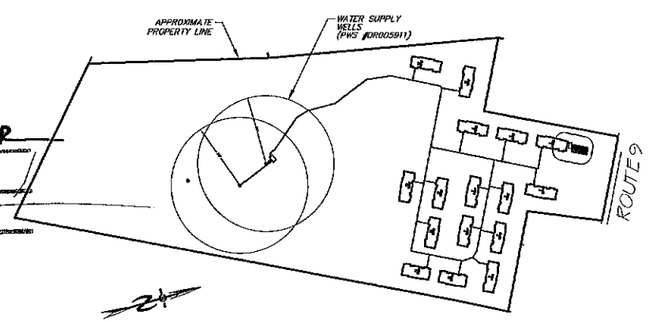
NOTES
1.) SEE SITE PREPARATION AND FILL NOTES
2.) ORIGINAL GRADE, HIGH SIDE ASSUMED TO BE 203.33
3.) MINIMUM FILL EXTENSION WHERE APPLICABLE IS 3'
4.) ALL FILL UNDER RAISED SYSTEMS INCLUDING SHOULDERS TO BE MEDIUM TO COARSE SEPTIC SAND. (SEE FILL NOTE #4.)

SCHEMATIC EFFLUENT DISPOSAL AREA SECTION
NTS



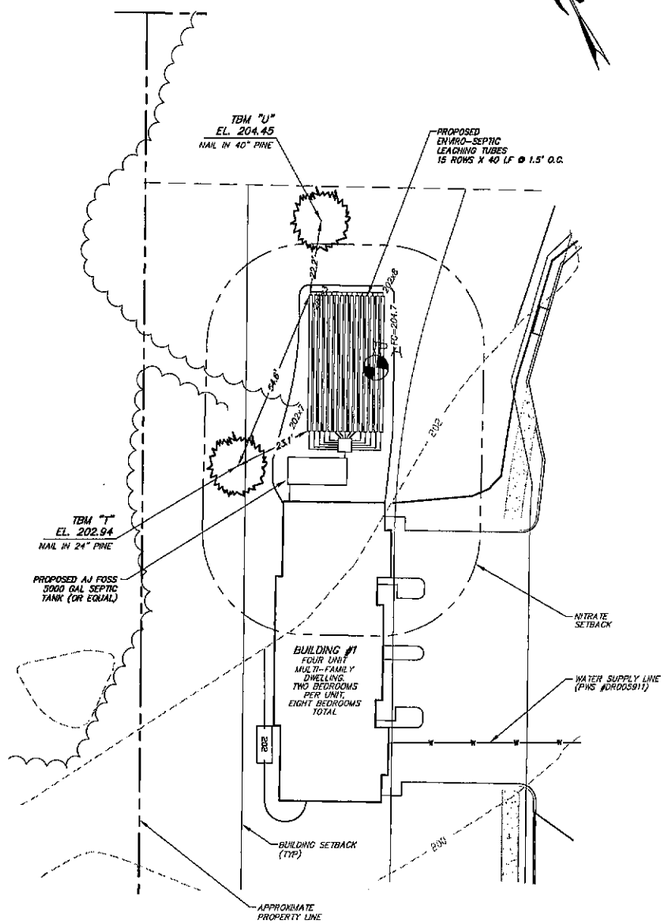
LOW VENT DETAIL (REQUIRED)
N.T.S.
(SEE LEACHING TUBE LAYOUT DETAIL)

PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SP
Date 6/29/2023
Chairman



OVERALL SITE PLAN
1" = 200'

REVIEWED AND APPROVED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES WATER DIVISION
Eric Thomas
Date: 3/20/2023
#CA2023032016



TEST PIT LOGS
TEST PITS PERFORMED MAY 21, 2020

TEST PIT "A"

DEPTH(")	DESCRIPTION
0-11"	10YR3/3. LOAMY FINE SAND. FRIABLE. GRANULAR
11-38"	10YR5/8. LOAMY SAND. FRIABLE. GRANULAR
38-69	2.5Y5/3. SAND. FRIABLE. MASSIVE. 30% REDOX

ESHWT = 38". REFUSAL: ROOTS TO
OBSERVED GROUND WATER: RESTRICTIVE LAYER:

SITE NOTES:
1. GRADING SHOWN IS FOR SEPTIC SYSTEM ONLY. ADDITIONAL GRADING IS AT THE DISCRETION OF THE CONTRACTOR AND/OR OWNER.
2. PER ENV-WQ 1003.13 (A)(3) THERE ARE NO KNOWN CEMETERIES LOCATED WITHIN 100' OF ANY PART OF THE EFFLUENT DISPOSAL SYSTEM. NO CONSTRUCTION TO TAKE PLACE WITHIN 25' OF BURIAL SITE. SEE ENV-WQ 1003.04(I).
3. NH-DES REQUIRES A PERIMETER DRAIN IF THE SLAB IS LESS THAN 18" TO THE SHWT. CERTAIN TOWNS REQUIRE A PERIMETER DRAIN AT ALL TIMES -- CHECK LOCAL REGULATIONS. IT IS THE RECOMMENDATION OF THIS OFFICE A PERIMETER DRAIN BE INSTALLED REGARDLESS.
4. BEST MANAGEMENT PRACTICES ARE TO BE FOLLOWED DURING ALL CONSTRUCTION TO PREVENT SITE ALTERATION THAT MAY CAUSE EROSION AND/OR DRAINAGE ISSUES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE FOUNDATION IN SUCH A MANNER AS TO PREVENT WATER INFILTRATION IN THE BASEMENT.

DESIGN NOTES
DESIGN PERC RATE:
5-8 MPI (PER MANUAL)

HYDRAULIC LOADING: 1,200 GPD
1 BUILDING, 4 UNITS PER BUILDING,
2 BEDROOMS (300 GPD) PER UNIT =
1 X 4 X 300 = 1,200 GPD

EFFLUENT DISPOSAL AREA:
REQUIRED: 1,200 GPD / 100 = 12 X 50 L.F.
PER 100 GPD = 600 L.F.
PROVIDED: 15 ROWS, EACH 40' = 600 L.F.

NEAREST ABUTTING WELL: 75' +
NEAREST SURFACE WATER: 75' +
NEAREST POORLY DRAINED WETLAND: 50' +
NEAREST VERY POORLY DRAINED WETLAND: 75' +

USSCS SOIL CLASSIFICATION:
31.B2 -- DEERFIELD
WEB SOIL SURVEY/SITE SPECIFIC SOIL SURVEY

BENCH MARKS: AS SHOWN

DESIGN INTENT:
THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM SHALL BE CONSTRUCTED AT EL. 202.66

THIS IS APPROXIMATELY 8 INCHES (.67') BELOW THE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE EFFLUENT DISPOSAL SYSTEM, EL. 203.33

DIMENSIONS -- EFFLUENT DISPOSAL AREA:
WIDTH = 22.0'
LENGTH = 40.0'
DIAGONAL = 45.7'

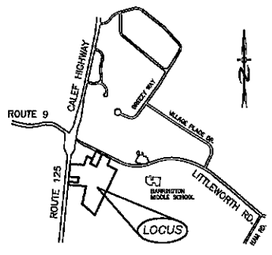
ENVIRO-SEPTIC NOTE
ENVIRO-SEPTIC WASTEWATER TREATMENT SYSTEMS ARE APPROVED BY NHDES AS ITA IN ACCORDANCE WITH PART ENV-WQ 1024. THIS SYSTEM IS DESIGNED IN ACCORDANCE WITH THE NH DESIGN AND INSTALLATION MANUAL FOR ADVANCED ENVIRO-SEPTIC & ENVIRO-SEPTIC WASTEWATER TREATMENT SYSTEMS.

WETLAND NOTES
WETLANDS HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.06 BY COVE ENVIRONMENTAL SERVICES, INC IN THE SPRING OF 2020.

THIS PLAN IS NOT A SURVEY
THE BUILDER/SITE CONTRACTOR IS RESPONSIBLE TO CONFIRM THE ZONING DIMENSIONAL REQUIREMENTS AND SETBACK LINE REQUIREMENTS PRIOR TO INITIATING CONSTRUCTION OF THE PROPOSED HOUSE AND SEPTIC SYSTEM. THE ZONING ORDINANCE OF THE MUNICIPALITY IS TO BE COMPLIED WITH. THE BUILDER/SITE CONTRACTOR IS ALSO RESPONSIBLE TO CONTACT THE MUNICIPALITY REGARDING INSPECTIONS PRIOR TO AND DURING CONSTRUCTION, I.E. LOCATION AND BED-BOTTOM INSPECTIONS. THIS PLAN IS NOT INTENDED TO BE USED AS A SITE PLAN

GRAPHIC SCALE
20 0 10 20 40
(1 INCH = 20 FEET)

OWNER OF RECORD
J & L TERRA HOLDINGS INC.
79 EXETER ROAD
NORTH HAMPTON, NH

LOCUS MAP


GENERAL NOTES
CONTRACTOR TO VERIFY ALL ELEVATIONS, INCLUDING TBM'S IN THE FIELD PRIOR TO CONSTRUCTION

FILL TO BE MEDIUM TO COARSE-TEXTURED SAND (0.25mm-2.0mm)

REMOVE TOPSOIL BEFORE PLACING FILL

4 INCH THICK LOAM & SEED AROUND PERIMETER OF FILL

SIDE SLOPES OF FILL= 3(HORIZONTAL): 1(VERTICAL)

75' SETBACK FROM HYDRIC A SOILS

50' SETBACK FROM HYDRIC B SOILS

NO VEHICULAR NOR LIVESTOCK TRAVEL NOR SNOW REMOVAL ALLOWED IN AREA OF SYSTEM.

CONCRETE STRUCTURE TO BE WATER TIGHT. ALL CONNECTIONS BETWEEN THE SEPTIC TANK AND THE PIPES LEADING TO AND EXITING FROM THE SEPTIC TANK SHALL BE SEALED WITH A WATER TIGHT, FLEXIABLE JOINT CONNECTOR.

SYSTEM WILL BE REPLACED IN SAME LOCATION IN EVENT OF FAILURE.

RECOMMENDED CLEANING SEPTIC TANK AT LEAST ONCE EVERY 2 YEARS, OR AS NEEDED.

CROWN SYSTEM TO SHED RAINWATER.

SLOPE SYSTEM AWAY FROM HOUSE.

NO SURFACE WATER OR WELLS WITHIN 75'.

3 FT. FILL EXTENSION.

BED BOTTOM INSPECTION REQUIRED

ALL WATER LINE CROSSINGS MUST MEET ENV-WQ 1009.02.

PROVIDE CLEAN-OUTS AS NEEDED PER ENV-WQ 1009.03.

PLAN INTENT
THE INTENT OF THIS PLAN IS TO PROVIDE AN APPROVED EFFLUENT DISPOSAL AREA TO HANDLE THE LOADING FOR ONE BUILDING WITH 4 UNITS, 2 BEDROOMS PER UNIT (BUILDING #1).

PHASE I
THE 16 BUILDINGS CONSTRUCTED IN THIS PHASE INCLUDE BUILDING NUMBERS ONE THROUGH 16.

DESIGNER STAMP
NEW HAMPSHIRE
Designer of Subsurface Disposal Systems
Christian O. Smith
No. 1543
Department of Environmental Services

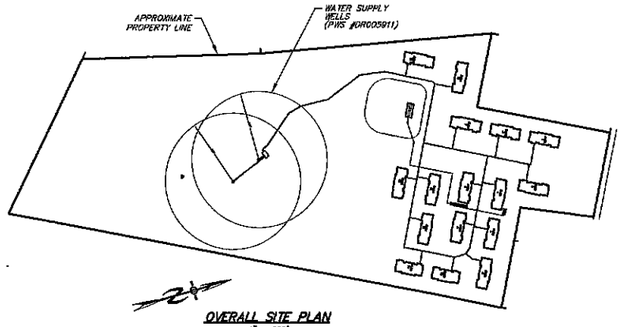
BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

REVISIONS:	DATE:
AMENDED PER NHDES COMMENTS.	2/13/23

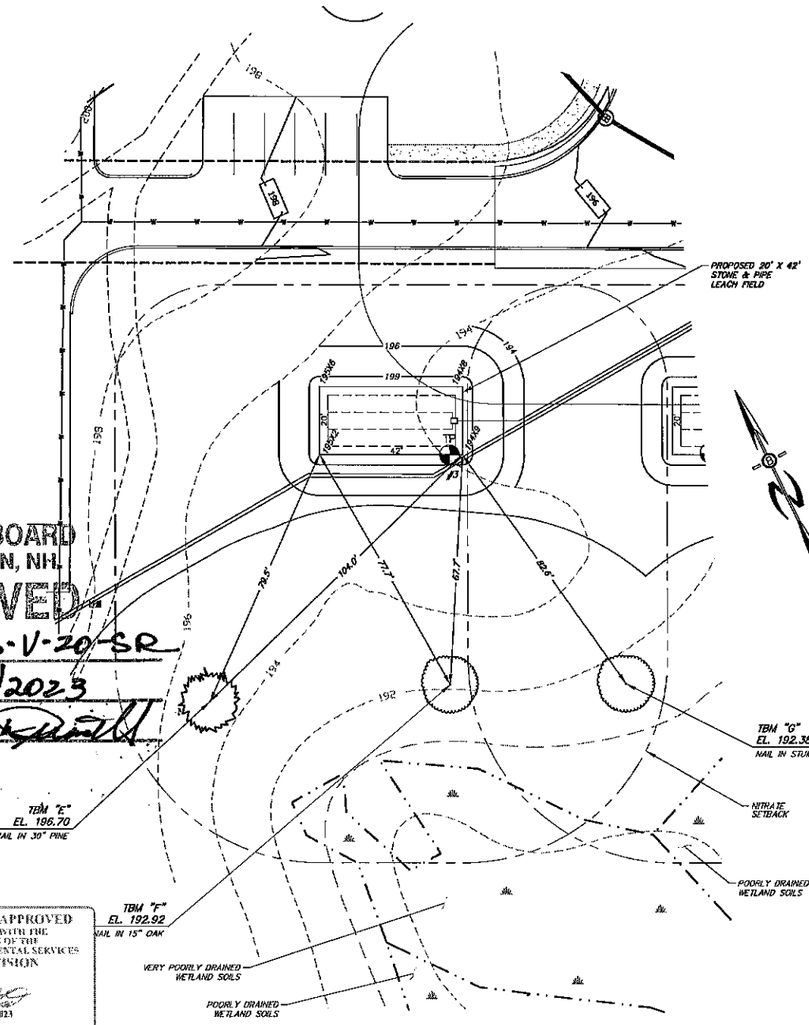
SCALE: 1"=20'

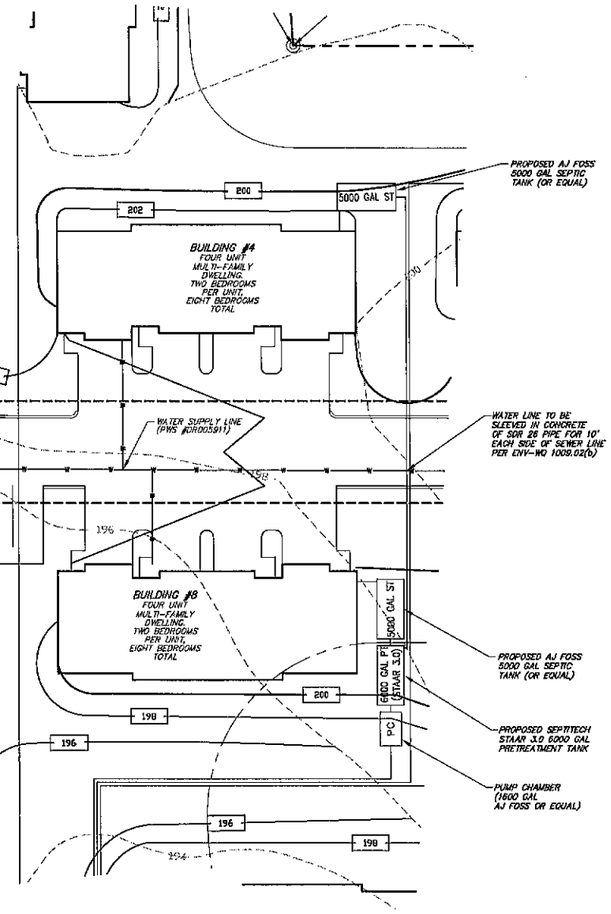
Title:
PHASE I LEACH FIELDS
BUILDING 1
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH
EFFLUENT DISPOSAL PLAN

PROJECT NUMBER: NH-1263 SHEET NUMBER: 1 OF 1



OVERALL SITE PLAN
1" = 200'





PLANNING BOARD
BARRINGTON, NH
- APPROVED
File Number 238-36-V-20-SR
Date 6/29/2023
Chairman

REVIEWED AND APPROVED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE NHDES OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 4/10/2023
#CA20230410020

TEST PIT LOGS

TEST PITS PERFORMED MAY 21, 2020

TEST PIT "A"
DEPTH(") DESCRIPTION
0-7" 10YR 3/3 LOAMY FINE SAND, GRANULAR, FRIABLE
7-32" 10YR 5/8 LOAMY SAND, GRANULAR, FRIABLE
32-88" 2.5Y 5/4 LOAMY SAND, MASSIVE, FRIABLE W/REDOX

ESHWT = 32". REFUSAL: ROOTS TO:
OBSERVED GROUND WATER: 55". RESTRICTIVE LAYER: NONE

SITE NOTES:

1. GRADING SHOWN IS FOR SEPTIC SYSTEM ONLY. ADDITIONAL GRADING IS AT THE DISCRETION OF THE CONTRACTOR AND/OR OWNER.
2. PER ENV-WQ 1003.13 (A)(3) THERE ARE NO KNOWN CEMETERIES LOCATED WITHIN 100' OF ANY PART OF THE EFFLUENT DISPOSAL SYSTEM. NO CONSTRUCTION TO TAKE PLACE WITHIN 25' OF BURIAL SITE, SEE ENV-WQ 1008.04(i).
3. NH-DES REQUIRES A PERIMETER DRAIN IF THE SLAB IS LESS THAN 18" TO THE SHWT. CERTAIN TOWNS REQUIRE A PERIMETER DRAIN AT ALL TIMES - CHECK LOCAL REGULATIONS. IT IS THE RECOMMENDATION OF THIS OFFICE A PERIMETER DRAIN BE INSTALLED REGARDLESS.
4. BEST MANAGEMENT PRACTICES ARE TO BE FOLLOWED DURING ALL CONSTRUCTION TO PREVENT SITE ALTERATION THAT MAY CAUSE EROSION AND/OR DRAINAGE ISSUES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE FOUNDATION IN SUCH A MANNER AS TO PREVENT WATER INFILTRATION IN THE BASEMENT.

DESIGN NOTES

DESIGN PERC RATE:
4 MIN/IN

HYDRAULIC LOADING: 2,400 GPD
2 BUILDINGS, 4 UNITS PER BUILDING,
2 BEDROOMS (300 GPD) PER UNIT =
2 X 4 X 300 = 2,400 GPD

EFFLUENT DISPOSAL AREA:
REQUIRED: 2400 GPD/100 = 24 X 140 SF PER 100 GPD = 3360 SF
3360 SF W/75% TREATMENT REDUCTION = 840 SF
PROVIDED: 20' X 42' = 840 S.F.

NEAREST ABUTTING WELL: 75' +
NEAREST SURFACE WATER: 75' +
NEAREST POORLY DRAINED WETLAND: 50' +
NEAREST VERY POORLY DRAINED WETLAND: 75' +

USSCS SOIL CLASSIFICATION:
313B -- DEERFIELD
WEB SOIL SURVEY/SITE SPECIFIC SOIL SURVEY

BENCH MARKS: AS SHOWN

DESIGN INTENT:
THE BOTTOM OF THE EFFLUENT DISPOSAL AREA SHALL BE CONSTRUCTED AT EL. 197.00

THIS IS APPROXIMATELY 16" (1.33') ABOVE THE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE EFFLUENT DISPOSAL SYSTEM, EL. 195.67

DIMENSIONS - EFFLUENT DISPOSAL AREA:
WIDTH = 20.0'
LENGTH = 42.0'
DIAGONAL = 46.5'

WETLAND NOTES

WETLANDS HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.06 BY COVE ENVIRONMENTAL SERVICES, INC IN THE SPRING OF 2020.

****THIS PLAN IS NOT A SURVEY****

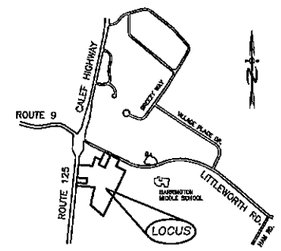
THE BUILDER/SITE CONTRACTOR IS RESPONSIBLE TO CONFIRM THE ZONING DIMENSIONAL REQUIREMENTS AND SETBACK LINE REQUIREMENTS PRIOR TO INITIATING CONSTRUCTION OF THE PROPOSED HOUSE AND SEPTIC SYSTEM. THE ZONING ORDINANCE OF THE MUNICIPALITY IS TO BE COMPLIED WITH. THE BUILDER/SITE CONTRACTOR IS ALSO RESPONSIBLE TO CONTACT THE MUNICIPALITY REGARDING INSPECTIONS PRIOR TO AND DURING CONSTRUCTION, I.E. LOCATION AND BED-BOTTOM INSPECTIONS. THIS PLAN IS NOT INTENDED TO BE USED AS A SITE PLAN

GRAPHIC SCALE
20 0 10 20 40
(1 INCH = 20 FEET)

OWNER OF RECORD

J & L TERRA HOLDINGS INC.
79 EXETER ROAD
NORTH HAMPTON, NH

LOCUS MAP



GENERAL NOTES

CONTRACTOR TO VERIFY ALL ELEVATIONS, INCLUDING TBM'S IN THE FIELD PRIOR TO CONSTRUCTION

FILL TO BE MEDIUM TO COARSE-TEXTURED SAND (0.25mm-2.0mm)

REMOVE TOPSOIL BEFORE PLACING FILL

4 INCH THICK LOAM & SEED AROUND PERIMETER OF FILL

SIDE SLOPES OF FILL= 3(HORIZONTAL): 1(VERTICAL)

75' SETBACK FROM HYDRIC A SOILS

50' SETBACK FROM HYDRIC B SOILS

NO VEHICULAR NOR LIVESTOCK TRAVEL NOR SNOW REMOVAL ALLOWED IN AREA OF SYSTEM.

CONCRETE STRUCTURE TO BE WATER TIGHT. ALL CONNECTIONS BETWEEN THE SEPTIC TANK AND THE PIPES LEADING TO AND EXITING FROM THE SEPTIC TANK SHALL BE SEALED WITH A WATER TIGHT, FLEXABLE JOINT CONNECTOR.

SYSTEM WILL BE REPLACED IN SAME LOCATION IN EVENT OF FAILURE.

RECOMMENDED CLEANING SEPTIC TANK AT LEAST ONCE EVERY 2 YEARS, OR AS NEEDED.

CROWN SYSTEM TO SHED RAINWATER.

SLOPE SYSTEM AWAY FROM HOUSE.

NO SURFACE WATER OR WELLS WITHIN 75'.

3' FT. FILL EXTENSION.

BED BOTTOM INSPECTION REQUIRED

ALL WATER LINE CROSSINGS MUST MEET ENV-WQ 1009.02.

PROVIDE CLEAN-OUTS AS NEEDED PER ENV-WQ 1009.03.

PLAN INTENT

THE INTENT OF THIS PLAN IS TO PROVIDE AN APPROVED EFFLUENT DISPOSAL AREA TO HANDLE THE LOADING FOR TWO BUILDINGS WITH 4 UNITS EACH, 2 BEDROOMS PER UNIT (BUILDINGS #4 & 8).

PHASE I
THE 16 BUILDINGS CONSTRUCTED IN THIS PHASE INCLUDE BUILDING NUMBERS ONE THROUGH 16.

DESIGNER STAMP

NEW HAMPSHIRE Designer of Subsurface Disposal Systems
Christian O. Smith No. 1543
Department of Environmental Services

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE, THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

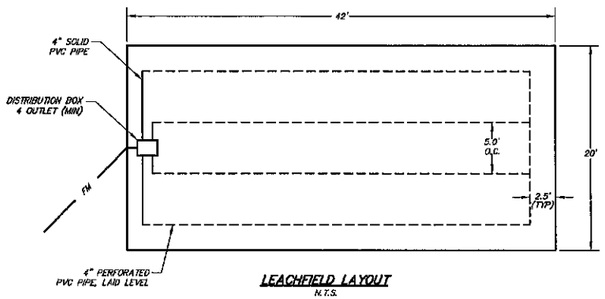
REVISIONS:	DATE:
REVISED PER NHDES COMMENTS.	2/13/23

DATE: FEBRUARY 2023 SCALE: 1"=20'

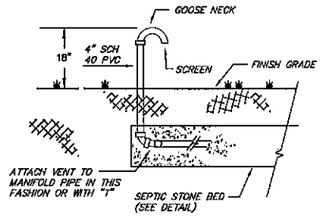
Title:
PHASE I LEACH FIELDS
BUILDINGS 4 & 8
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH

EFFLUENT DISPOSAL PLAN

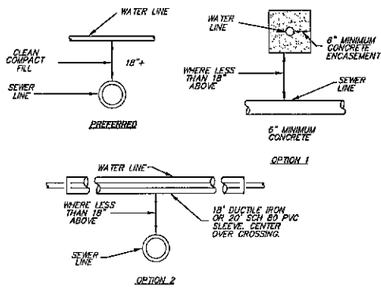
PROJECT NUMBER: NH-1263 SHEET NUMBER: 1 OF 2



LEACHFIELD LAYOUT
N.T.S.

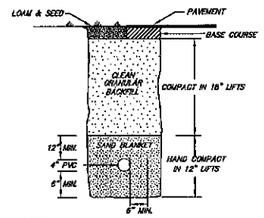


LOW VENT DETAIL
NTS



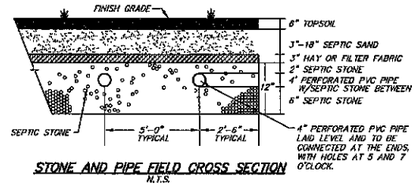
WATER / SEWER LINE CROSSING
NTS

NOTES:
1. WHEREVER POSSIBLE THE WATER LINE SHALL CROSS 18"+ ABOVE THE SEWER LINE.
2. THIS DETAIL ALSO APPLIES TO EFFLUENT FORCEMAINS.

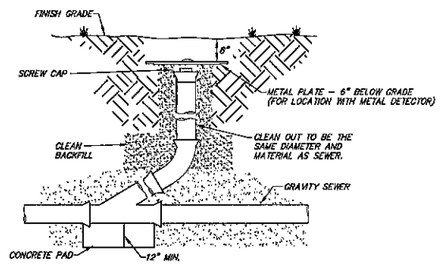


NOTES:
1. MINIMUM COVER SHALL BE 6'+ FOR PLOWED AREAS, 4'+ FOR CROSS COUNTRY
2. MULTIPLE PIPES IN THE SAME TRENCH SHALL BE SEPARATED BY 12"+

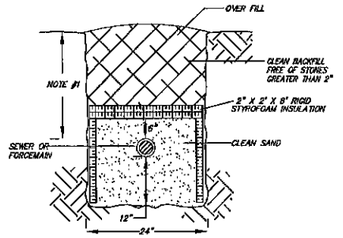
STANDARD TRENCH DETAIL
FOR EFFLUENT SEWER OR FORCEMAIN
N.T.S.



STONE AND PIPE FIELD CROSS SECTION
N.T.S.

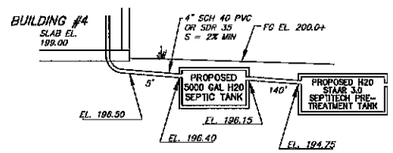


INLINE/BELOW GRADE CLEAN OUT

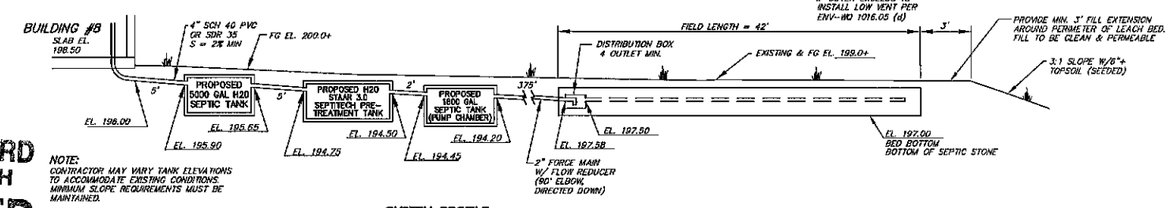


NOTES:
1. INSULATE SEWER OR FORCEMAIN WHERE PIPE WILL BE LESS THAN 6' BELOW PLOWED AREAS OR LESS THAN 4' BELOW AREAS RUNNING CROSS COUNTRY
2. GAPS BETWEEN SECTIONS OF INSULATION TO BE COVERED WITH 2' X 2' X 2" PIECE OF INSULATION CENTERED OVER GAP.

PIPE INSULATION DETAIL

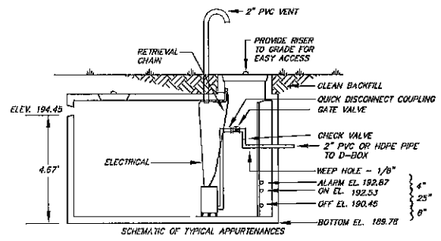


* RISERS TO GRADE REQUIRED OVER SEPTIC, PRETREATMENT TANKS AND PUMP CHAMBER



NOTE:
CONTRACTOR MAY VARY TANK ELEVATIONS TO ACCOMODATE EXISTING CONDITIONS. MINIMUM SLOPE REQUIREMENTS MUST BE MAINTAINED.

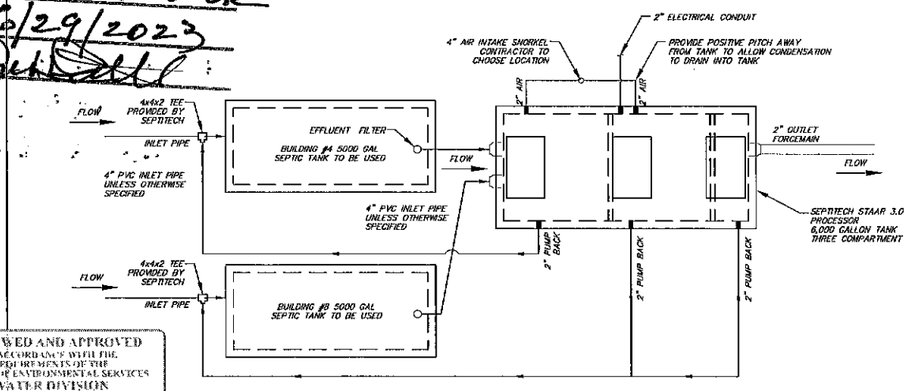
SYSTEM PROFILE
N.T.S.



SCHEMATIC OF TYPICAL APPURTENANCES

PUMP DETAIL
N.T.S.

PUMP NOTES
1" DRAW DOWN = 32 GALS.± PUMP TO BE SET TO DOSES OF 800 GALS./CYCLE.
PUMP TO BE CAPABLE OF 80 GPM AT A TOTAL HEAD OF 12 FEET
RECOMMENDED MYERS ME46 DUPLEX SEWAGE PUMPS OR EQUIVALENT
APPROX. RUNNING TIME WITH PUMP SPECIFIED TO = 10 MIN. ±



GENERAL NOTES

TANK(S) SHALL NOT BE INSTALLED AT A DEPTH ANY GREATER THAN 24-INCHES. TANK INSTALLATIONS REQUIRING A DEPTH GREATER THAN 24-INCHES SHALL DO SO WITH PRIOR APPROVAL BY SEPTITECH ONLY. ANY RISERS REQUIRED TO BRING THE ALUMINUM HATCHES TO GRADE ARE THE RESPONSIBILITY OF THE CONTRACTOR.

TANK(S) SHALL BE INSTALLED WITH A MINIMUM OF 12-INCHES OF COMPACTED CRUSHED STONE BEDDING. SELECT FILL SHALL BE USED FOR BACKFILLING AROUND TANKS. NATIVE MATERIAL MAY BE USED IF APPROVED BY THE DESIGN ENGINEER.

WATER TESTING: CONTRACTOR IS RESPONSIBLE FOR WATER TESTING THE CONCRETE TANK(S) ONCE THE TANK(S) INSTALLATION HAS BEEN COMPLETED AND ALLOWED TO SIT OVERNIGHT. WATER TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C1227.8.2. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CLEAN WATER FOR THE TESTING, FILLING THE TANKS, AND PUMPING THE TANKS DRY ONCE TESTING IS COMPLETED.

EXTERIOR PIPING: CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL EXTERIOR PIPING PER SEPTITECH INSTALLATION DRAWINGS.

AIR INTAKE PIPING: AIR INTAKE SNORKEL SHALL BE INSTALLED WITHIN 100 FEET OF THE PROCESSOR TANK. AIR INTAKE PIPING SHALL BE INSTALLED SUCH THAT A POSITIVE PITCH IS PROVIDED BACK TOWARDS THE PROCESSOR TANK SUCH THAT ANY CONDENSTAION BUILD UP IS FREE TO DRAIN.

PIPE INSULATION: CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL PIPING EXTERIOR TO THE SEPTITECH PROCESSOR INCLUDING THE DISCHARGE LINE FROM THE PROCESSOR TO THE DISPOSAL FIELD.

TANK INSULATION: AFTER CONCRETE TANKS HAVE BEEN INSTALLED AND WATER TESTING IS COMPLETED, CONTRACTOR SHALL INSULATE THE TOP AND SIDES OF THE PROCESSOR TANK BELOW FROST DEPTH (4-FEET MINIMUM) DOWN THE SIDES OF THE TANK WITH 2" RIGID FOAM (BLUE) BOARD INSULATION AND THEN COMPLETE BACKFILLING. CONTRACTOR IS ALSO RESPONSIBLE FOR INSTALLING INSULATION OVER THE TOP OF THE FORCEMAIN FROM THE SEPTITECH SYSTEM TO THE DISPOSAL FIELD IF NOT BURIED BELOW FROST LEVEL IN ORDER TO PREVENT FREEZING.

ELECTRICAL: ALL ELECTRICAL WORK IS THE RESPONSIBILITY OF THE CONTRACTOR'S LICENSED ELECTRICIAN AND IS NOT PROVIDED BY SEPTITECH. SYSTEM CONTROLLER SHOULD BE INSTALLED IN A HEATED BUILDING WHERE AN AMBIENT TEMPERATURE RANGE OF 60 TO 90 DEGREES F IS MAINTAINED. IF THE CONTROL PANEL MUST BE LOCATED OUTSIDE, PLEASE NOTIFY SEPTITECH, INC. SO A HEATER MAY BE INSTALLED WITHIN THE ENCLOSURE.

SEPTITECH PROCESSORS CAN ALSO BE BUILT TO 3-PHASE POWER REQUIREMENTS. IF 3-PHASE IS REQUIRED, PLEASE NOTIFY SEPTITECH AT THE TIME OF CONTRACT SIGNING.

INTERNET: CONTRACTOR IS RESPONSIBLE FOR INSTALLING AN INTERNET LINE TO THE PROCESSOR CONTROL PANEL FOR THE TELEMETRY. ANY WORK PERFORMED ON THE SYSTEM WITHOUT THE INSTALLATION OF THE INTERNET LINE SHALL BE AT THE EXPENSE OF THE OWNER.

PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SR
Date 6/29/2023
Chairman

REVIEWED AND APPROVED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 4/10/2023
#CA20230403020

DESIGNER STAMP
NEW HAMPSHIRE
Designer of Subsurface Disposal Systems
Christian O. Smith No. 1643
Department of Environmental Services

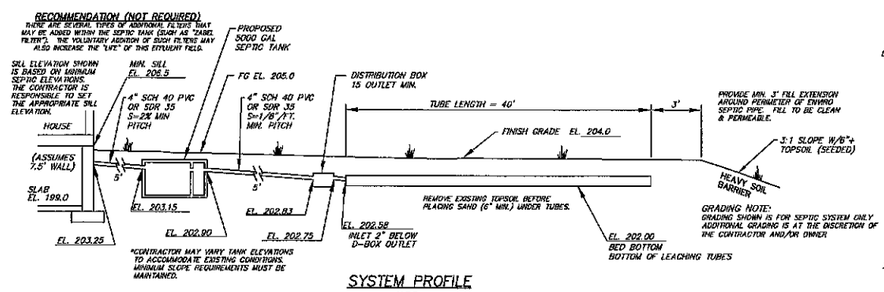
BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE, THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

REVISIONS:	DATE:

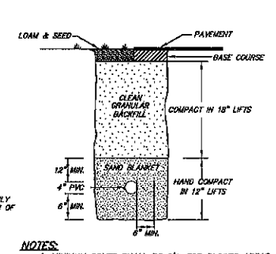
DATE: FEBRUARY 2023 SCALE: AS SHOWN

Title:
PHASE I LEACH FIELDS
BUILDINGS 4 & 8
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH
EFFLUENT DISPOSAL PLAN

PROJECT NUMBER: NH-1263 SHEET NUMBER: 2 OF 2

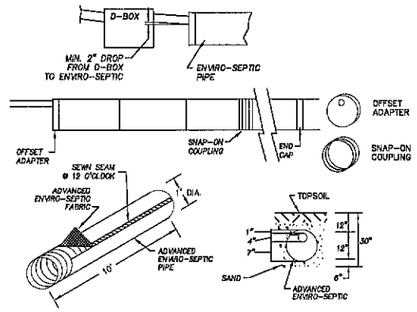


SYSTEM PROFILE
N.T.S.

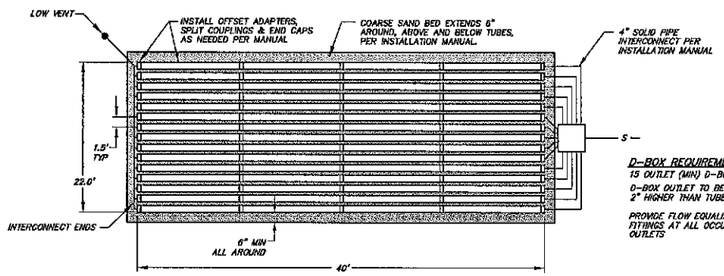


NOTES:
1. MINIMUM COVER SHALL BE 6'+ FOR PLOWED AREAS, 4'+ FOR CROSS COUNTRY
2. MULTIPLE PIPES IN THE SAME TRENCH SHALL BE SEPARATED BY 12"+

STANDARD TRENCH DETAIL
FOR EFFLUENT SEWER OR FORCEMAIN
N.T.S.

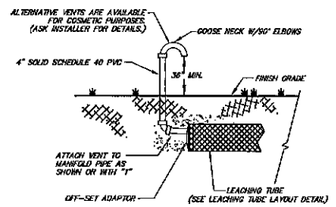


ADVANCED ENVIRO-SEPTIC PIPE DETAIL
N.T.S.

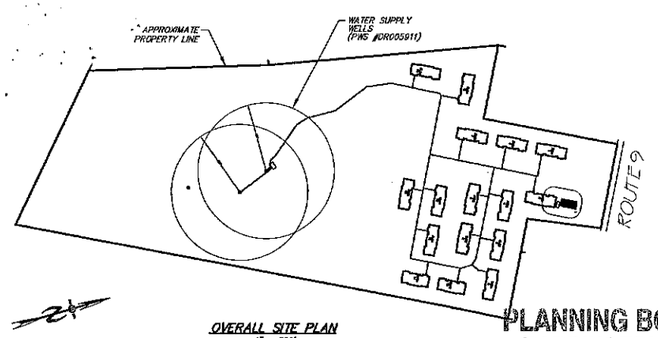


LEACHING TUBE LAYOUT
NOT TO SCALE

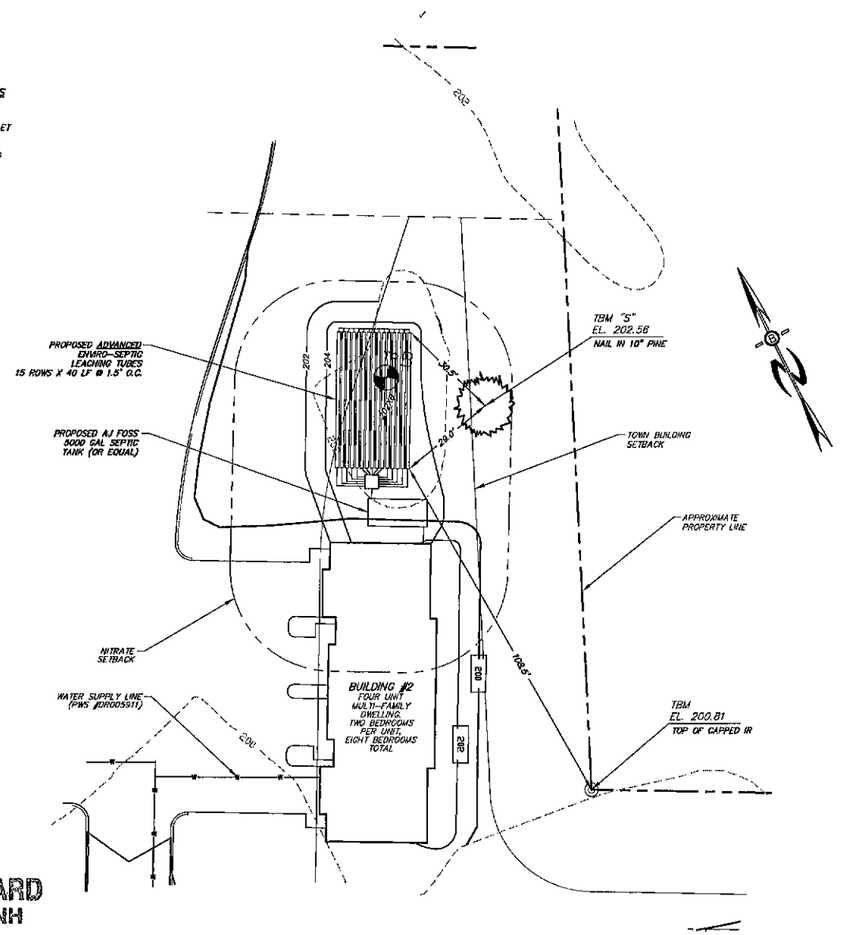
D-BOX REQUIREMENTS
15 OUTLET (MIN) D-BOX
D-BOX OUTLET TO BE 2" HIGHER THAN TUBE INLET
PROVIDE FLOW EQUALIZING FITTINGS AT ALL OCCUPIED OUTLETS



LOW VENT DETAIL (REQUIRED)
N.T.S.



OVERALL SITE PLAN
1" = 200'



TEST PIT LOGS

TEST PITS PERFORMED MAY 21, 2020

TEST PIT "S"

DEPTH(")	DESCRIPTION
0-13"	10YR3/1, LOAMY FINE SAND, FRIABLE, GRANULAR
13-38"	10YR5/8, LOAMY SAND, FRIABLE, GRANULAR
38-68"	2.5Y5/3, SAND, FRIABLE, MASSIVE, 30% REDOX

FSHWT = 38". REFUSAL: ROOTS TO
OBSERVED GROUND WATER: RESTRICTIVE LAYER:

SITE NOTES:

1. GRADING SHOWN IS FOR SEPTIC SYSTEM ONLY. ADDITIONAL GRADING IS AT THE DISCRETION OF THE CONTRACTOR AND/OR OWNER.
2. PER ENV-WQ 1003.13 (A)(3) THERE ARE NO KNOWN CEMETERIES LOCATED WITHIN 100' OF ANY PART OF THE EFFLUENT DISPOSAL SYSTEM. NO CONSTRUCTION TO TAKE PLACE WITHIN 25' OF BURIAL SITE. SEE ENV-WQ 1008.04(I).
3. NH-DES REQUIRES A PERIMETER DRAIN IF THE SLAB IS LESS THAN 18" TO THE SHWT. CERTAIN TOWNS REQUIRE A PERIMETER DRAIN AT ALL TIMES - CHECK LOCAL REGULATIONS. IT IS THE RECOMMENDATION OF THIS OFFICE A PERIMETER DRAIN BE INSTALLED REGARDLESS.
4. BEST MANAGEMENT PRACTICES ARE TO BE FOLLOWED DURING ALL CONSTRUCTION TO PREVENT SITE ALTERATION THAT MAY CAUSE EROSION AND/OR DRAINAGE ISSUES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE FOUNDATION IN SUCH A MANNER AS TO PREVENT WATER INFILTRATION IN THE BASEMENT.

DESIGN NOTES

DESIGN PERC RATE:
5-6 MPI (PER MANUAL)

HYDRAULIC LOADING: 1,200 GPD
1 BUILDING, 4 UNITS PER BUILDING,
2 BEDROOMS (300 GPD) PER UNIT =
1 X 4 X 300 = 1,200 GPD

EFFLUENT DISPOSAL AREA:
REQUIRED: 1,200 GPD / 100 = 12 X 50 L.F.
PER 100 GPD = 600 L.F.
PROVIDED: 15 ROWS, EACH 40' = 600 L.F.

NEAREST ABUTTING WELL: 75' +
NEAREST SURFACE WATER: 75' +
NEAREST POORLY DRAINED WETLAND: 50' +
NEAREST VERY POORLY DRAINED WETLAND: 75' +

USSCS SOIL CLASSIFICATION:
313B - DEERFIELD
WEB SOIL SURVEY/SITE SPECIFIC SOIL SURVEY

BENCH MARKS: AS SHOWN

DESIGN INTENT:
THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM SHALL BE CONSTRUCTED AT EL. 202.00

THIS IS APPROXIMATELY 8 INCHES (.67') BELOW THE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE EFFLUENT DISPOSAL SYSTEM, EL. 202.67

DIMENSIONS -- EFFLUENT DISPOSAL AREA:
WIDTH = 22.0'
LENGTH = 40.0'
DIAGONAL = 45.7'

ENVIRO-SEPTIC NOTE

ENVIRO-SEPTIC WASTEWATER TREATMENT SYSTEMS ARE APPROVED BY NHDES AS I1A IN ACCORDANCE WITH PART ENV-WQ 1024. THIS SYSTEM IS DESIGNED IN ACCORDANCE WITH THE NH DESIGN AND INSTALLATION MANUAL FOR ADVANCED ENVIRO-SEPTIC & ENVIRO-SEPTIC WASTEWATER TREATMENT SYSTEMS.

WETLAND NOTES

WETLANDS HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.06 BY GOVE ENVIRONMENTAL SERVICES, INC IN THE SPRING OF 2020.

****THIS PLAN IS NOT A SURVEY****

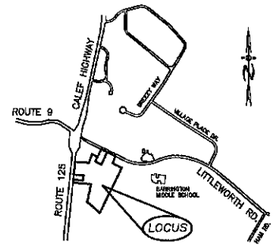
THE BUILDER/SITE CONTRACTOR IS RESPONSIBLE TO CONFIRM THE ZONING DIMENSIONAL REQUIREMENTS AND SETBACK LINE REQUIREMENTS PRIOR TO INITIATING CONSTRUCTION OF THE PROPOSED HOUSE AND SEPTIC SYSTEM. THE ZONING ORDINANCE OF THE MUNICIPALITY IS TO BE COMPLIED WITH. THE BUILDER/SITE CONTRACTOR IS ALSO RESPONSIBLE TO CONTACT THE MUNICIPALITY REGARDING INSPECTIONS PRIOR TO AND DURING CONSTRUCTION, I.E. LOCATION AND BED-BOTTOM INSPECTIONS. THIS PLAN IS NOT INTENDED TO BE USED AS A SITE PLAN

GRAPHIC SCALE
20 0 10 20 40
(1 INCH = 20 FEET)

OWNER OF RECORD

J & L TERRA HOLDINGS INC.
79 EXETER ROAD
NORTH HAMPTON, NH

LOCUS MAP



GENERAL NOTES

CONTRACTOR TO VERIFY ALL ELEVATIONS, INCLUDING TBM'S IN THE FIELD PRIOR TO CONSTRUCTION

FILL TO BE MEDIUM TO COARSE-TEXTURED SAND (0.25mm-2.0mm)

REMOVE TOPSOIL BEFORE PLACING FILL

4 INCH THICK LOAM & SEED AROUND PERIMETER OF FILL

SIDE SLOPES OF FILL= 3(HORIZONTAL): 1(VERTICAL)

75' SETBACK FROM HYDRIC A SOILS

50' SETBACK FROM HYDRIC B SOILS

NO VEHICULAR NOR LIVESTOCK TRAVEL NOR SNOW REMOVAL ALLOWED IN AREA OF SYSTEM.

CONCRETE STRUCTURE TO BE WATER TIGHT. ALL CONNECTIONS BETWEEN THE SEPTIC TANK AND THE PIPES LEADING TO AND EXITING FROM THE SEPTIC TANK SHALL BE SEALED WITH A WATER TIGHT, FLEXABLE JOINT CONNECTOR.

SYSTEM WILL BE REPLACED IN SAME LOCATION IN EVENT OF FAILURE.

RECOMMENDED CLEANING SEPTIC TANK AT LEAST ONCE EVERY 2 YEARS, OR AS NEEDED.

CROWN SYSTEM TO SHED RAINWATER.

SLOPE SYSTEM AWAY FROM HOUSE.

NO SURFACE WATER OR WELLS WITHIN 75'.

3_ FT. FILL EXTENSION.

BED BOTTOM INSPECTION REQUIRED

ALL WATER LINE CROSSINGS MUST MEET ENV-WQ 1009.02.

PROVIDE CLEAN-OUTS AS NEEDED PER ENV-WQ 1009.03.

PLAN INTENT

THE INTENT OF THIS PLAN IS TO PROVIDE AN APPROVED EFFLUENT DISPOSAL AREA TO HANDLE THE LOADING FOR ONE BUILDING WITH 4 UNITS, 2 BEDROOMS PER UNIT (BUILDING #2).

PHASE I
THE 16 BUILDINGS CONSTRUCTED IN THIS PHASE INCLUDE BUILDING NUMBERS ONE THROUGH 16.

DESIGNER STAMP

NEW HAMPSHIRE Designer of Subsurface Disposal Systems
Christian O. Smith No. 1543
Department of Environmental Services

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE, THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

REVISIONS:	DATE:

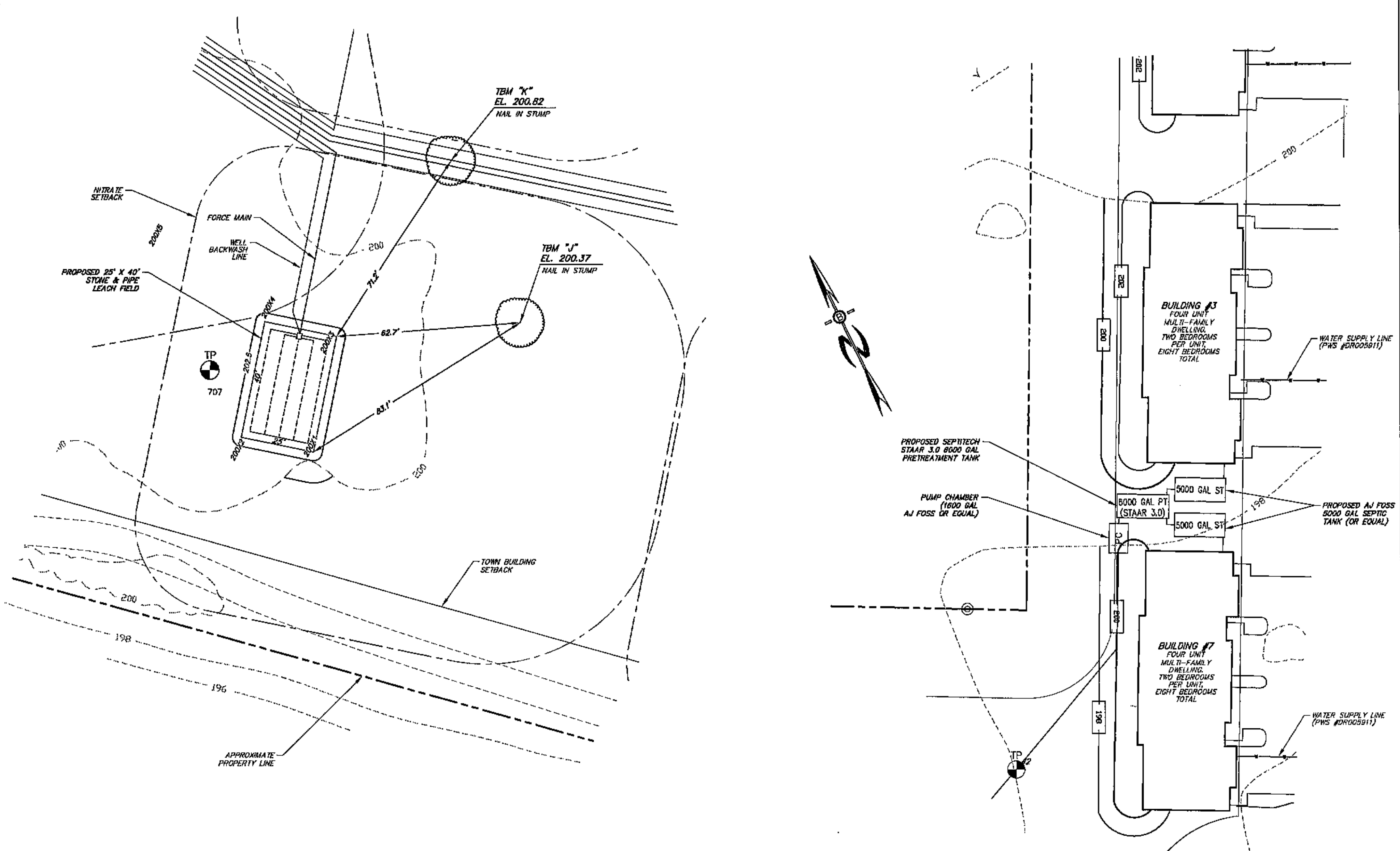
DATE: FEBRUARY 2023 SCALE: 1"=20'

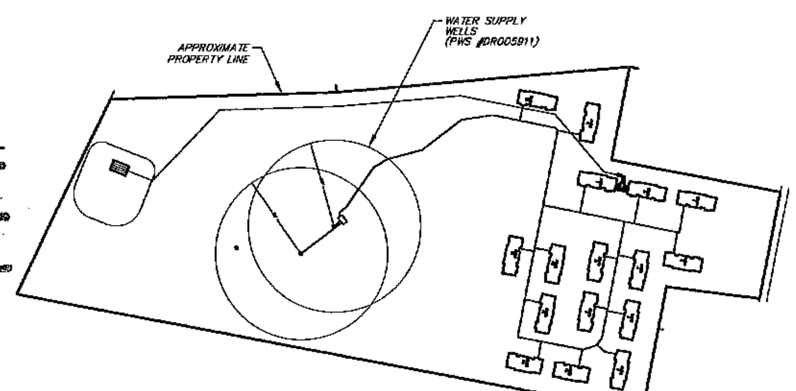
Title:
PHASE I LEACH FIELDS
BUILDING 2
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH
EFFLUENT DISPOSAL PLAN

PROJECT NUMBER: NH-1263 SHEET NUMBER: 1 OF 1

REVIEWED AND APPROVED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 4/18/2023
#eCA20230418021

PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SR
Date 6/29/2023
Chairman





OVERALL SITE PLAN
1" = 200'

PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SP
Date 6/29/2023
Chairman [illegible]

REVIEWED AND APPROVED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
[illegible]
Date: 4/10/2023
#eCA2023041023

TEST PIT LOGS

TEST PITS PERFORMED DECEMBER 20, 2022

TEST PIT "707"

DEPTH(")	DESCRIPTION
0-9"	10YR 4/3 LOAMY SAND, GRANULAR, FRIABLE
9-19"	10YR 5/6 LOAMY SAND, GRANULAR, FRIABLE
19-33"	10YR 7/6 SAND, MASSIVE, FRIABLE
33-47"	10YR 7/3 SAND, MASSIVE, FRIABLE
47-75"	7.5YR 7/6 SAND, MASSIVE, FRIABLE 40% REDOX

ESHWT = 47". REFUSAL: ROOTS TO
OBSERVED GROUND WATER: RESTRICTIVE LAYER:

SITE NOTES:

1. GRADING SHOWN IS FOR SEPTIC SYSTEM ONLY. ADDITIONAL GRADING IS AT THE DISCRETION OF THE CONTRACTOR AND/OR OWNER.
2. PER ENV-WQ 1003.13 (A)(3) THERE ARE NO KNOWN CEMETERIES LOCATED WITHIN 100' OF ANY PART OF THE EFFLUENT DISPOSAL SYSTEM. NO CONSTRUCTION TO TAKE PLACE WITHIN 25' OF BURIAL SITE, SEE ENV-WQ 1008.04(i).
3. NH-DES REQUIRES A PERIMETER DRAIN IF THE SLAB IS LESS THAN 18" TO THE SHWT. CERTAIN TOWNS REQUIRE A PERIMETER DRAIN AT ALL TIMES – CHECK LOCAL REGULATIONS. IT IS THE RECOMMENDATION OF THIS OFFICE A PERIMETER DRAIN BE INSTALLED REGARDLESS.
4. BEST MANAGEMENT PRACTICES ARE TO BE FOLLOWED DURING ALL CONSTRUCTION TO PREVENT SITE ALTERATION THAT MAY CAUSE EROSION AND/OR DRAINAGE ISSUES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE FOUNDATION IN SUCH A MANNER AS TO PREVENT WATER INFILTRATION IN THE BASEMENT.

DESIGN NOTES

DESIGN PERC RATE:
4 MIN/IN

HYDRAULIC LOADING: 2,400 GPD
2 BUILDINGS, 4 UNITS PER BUILDING,
2 BEDROOMS (300 GPD) PER UNIT =
2 X 4 X 300 = 2,400 GPD

EFFLUENT DISPOSAL AREA:
REQUIRED: 2400 GPD/100 = 24 X 140 SF PER 100 GPD = 3360 SF
3360 SF W/75% PRETREATMENT REDUCTION = 840 SF
+ 140 SF (100 GPD WELL BACKWASH) = 980 SF
PROVIDED: 25' X 40' = 1000 S.F.

NEAREST ABUTTING WELL: 75 +
NEAREST SURFACE WATER: 75' +
NEAREST POORLY DRAINED WETLAND: 50' +
NEAREST VERY POORLY DRAINED WETLAND: 75' +
USSCS SOIL CLASSIFICATION:
26B – WINDSOR
WEB SOIL SURVEY/SITE SPECIFIC SOIL SURVEY
BENCH MARKS: AS SHOWN

DESIGN INTENT:

THE BOTTOM OF THE EFFLUENT DISPOSAL AREA SHALL BE CONSTRUCTED AT EL. 200.50

THIS IS APPROXIMATELY 1 INCH (.08') ABOVE THE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE EFFLUENT DISPOSAL SYSTEM, EL. 200.42

DIMENSIONS – EFFLUENT DISPOSAL AREA:
WIDTH = 25.0'
LENGTH = 40.0'
DIAGONAL = 47.2'

WETLAND NOTES

WETLANDS HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.06 BY GOVE ENVIRONMENTAL SERVICES, INC IN THE SPRING OF 2020.

****THIS PLAN IS NOT A SURVEY****

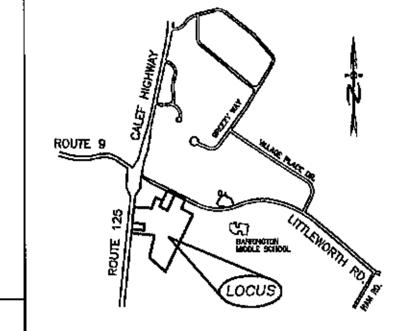
THE BUILDER/SITE CONTRACTOR IS RESPONSIBLE TO CONFIRM THE ZONING DIMENSIONAL REQUIREMENTS AND SETBACK LINE REQUIREMENTS PRIOR TO INITIATING CONSTRUCTION OF THE PROPOSED HOUSE AND SEPTIC SYSTEM. THE ZONING ORDINANCE OF THE MUNICIPALITY IS TO BE COMPLIED WITH. THE BUILDER/SITE CONTRACTOR IS ALSO RESPONSIBLE TO CONTACT THE MUNICIPALITY REGARDING INSPECTIONS PRIOR TO AND DURING CONSTRUCTION, I.E. LOCATION AND BED-BOTTOM INSPECTIONS. THIS PLAN IS NOT INTENDED TO BE USED AS A SITE PLAN

GRAPHIC SCALE
20 0 10 20 40
(1 INCH = 20 FEET)

OWNER OF RECORD

J & L TERRA HOLDINGS INC.
79 EXETER ROAD
NORTH HAMPTON, NH

LOCUS MAP



GENERAL NOTES

CONTRACTOR TO VERIFY ALL ELEVATIONS, INCLUDING TBM'S IN THE FIELD PRIOR TO CONSTRUCTION

FILL TO BE MEDIUM TO COARSE-TEXTURED SAND (0.25mm-2.0mm)

REMOVE TOPSOIL BEFORE PLACING FILL

4 INCH THICK LOAM & SEED AROUND PERIMETER OF FILL

SIDE SLOPES OF FILL= 3(HORIZONTAL): 1(VERTICAL)

75' SETBACK FROM HYDRIC A SOILS

50' SETBACK FROM HYDRIC B SOILS

NO VEHICULAR NOR LIVESTOCK TRAVEL NOR SNOW REMOVAL ALLOWED IN AREA OF SYSTEM.

CONCRETE STRUCTURE TO BE WATER TIGHT. ALL CONNECTIONS BETWEEN THE SEPTIC TANK AND THE PIPES LEADING TO AND EXITING FROM THE SEPTIC TANK SHALL BE SEALED WITH A WATER TIGHT, FLEXABLE JOINT CONNECTOR.

SYSTEM WILL BE REPLACED IN SAME LOCATION IN EVENT OF FAILURE.

RECOMMENDED CLEANING SEPTIC TANK AT LEAST ONCE EVERY 2 YEARS, OR AS NEEDED.

CROWN SYSTEM TO SHED RAINWATER.

SLOPE SYSTEM AWAY FROM HOUSE.

NO SURFACE WATER OR WELLS WITHIN 75'.

3 FT. FILL EXTENSION.

BED BOTTOM INSPECTION REQUIRED

ALL WATER LINE CROSSINGS MUST MEET ENV-WQ 1009.02.

PROVIDE CLEAN-OUTS AS NEEDED PER ENV-WQ 1009.03.

PLAN INTENT

THE INTENT OF THIS PLAN IS TO PROVIDE AN APPROVED EFFLUENT DISPOSAL AREA TO HANDLE THE LOADING FOR TWO BUILDINGS WITH 4 UNITS EACH, 2 BEDROOMS PER UNIT (BUILDINGS #3 & 7).

PHASE I

THE 16 BUILDINGS CONSTRUCTED IN THIS PHASE INCLUDE BUILDING NUMBERS ONE THROUGH 16.

DESIGNER STAMP

NEW HAMPSHIRE
Designer of Subsurface Disposal Systems
* * *
Christian O. Smith
No. 1648
Department of Environmental Services

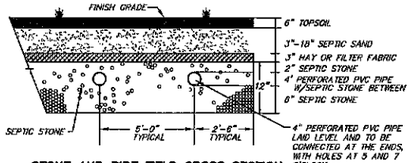
BA
BEALS
ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

REVISIONS:	DATE:
AMENDED PER NHDES COMMENTS.	2/13/23

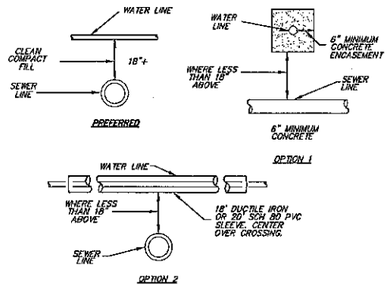
DATE: FEBRUARY 2023 SCALE: 1"=20'

Title:
PHASE I LEACH FIELDS
BUILDINGS 3 & 7
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH
EFFLUENT DISPOSAL PLAN

PROJECT NUMBER: NH-1263 SHEET NUMBER: 1 OF 2

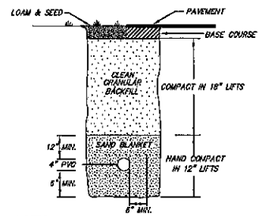


STONE AND PIPE FIELD CROSS SECTION
N.T.S.



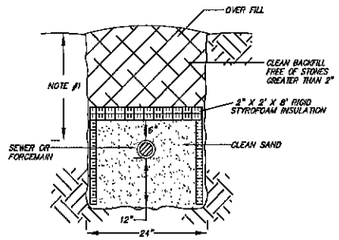
WATER / SEWER LINE CROSSING
NTS

NOTES:
1. WHEREVER POSSIBLE THE WATER LINE SHALL CROSS 18"+ ABOVE THE SEWER LINE.
2. THIS DETAIL ALSO APPLIES TO EFFLUENT FORCEMAINS.



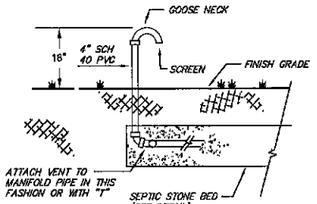
NOTES:
1. MINIMUM COVER SHALL BE 6'+ FOR PLOWED AREAS, 4'+ FOR CROSS COUNTRY
2. MULTIPLE PIPES IN THE SAME TRENCH SHALL BE SEPARATED BY 12"+

STANDARD TRENCH DETAIL
FOR EFFLUENT SEWER OR FORCEMAIN
N.T.S.

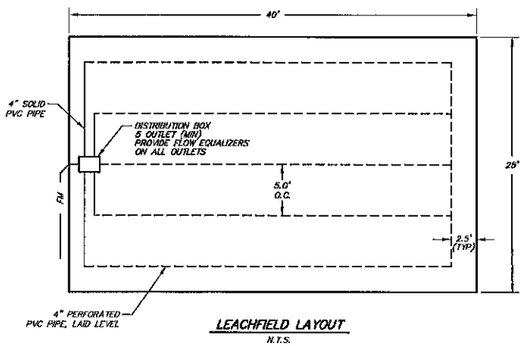


NOTES:
1. INSULATE SEWER OR FORCEMAIN WHERE PIPE WILL BE LESS THAN 6' BELOW PLOWED AREAS OR LESS THAN 4' BELOW AREAS RUNNING CROSS COUNTRY
2. GAPS BETWEEN SECTIONS OF INSULATION TO BE COVERED WITH 2' X 2' X 2" PIECE OF INSULATION CENTERED OVER GAP.

PIPE INSULATION DETAIL
FOR EFFLUENT SEWER OR FORCEMAIN
N.T.S.



LOW VENT DETAIL
NTS



LEACHFIELD LAYOUT
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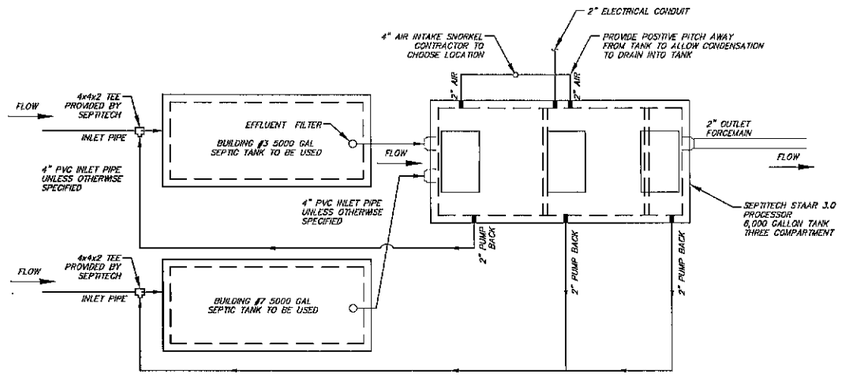

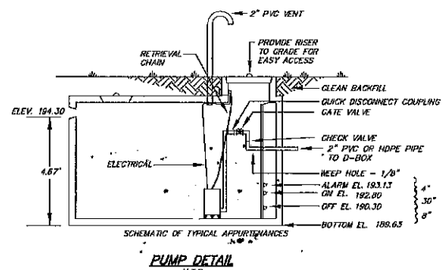

PUMP DETAIL
N.T.S.

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1" DRAW DOWN = 32 GALS.± PUMP TO BE SET TO DOSES OF 960 GALS./CYCLE. PUMP TO BE CAPABLE OF 125 GPM AT A TOTAL HEAD OF 12 FEET. RECOMMENDED MYERS MM150 DUPLEX SEWAGE PUMPS OR EQUIVALENT
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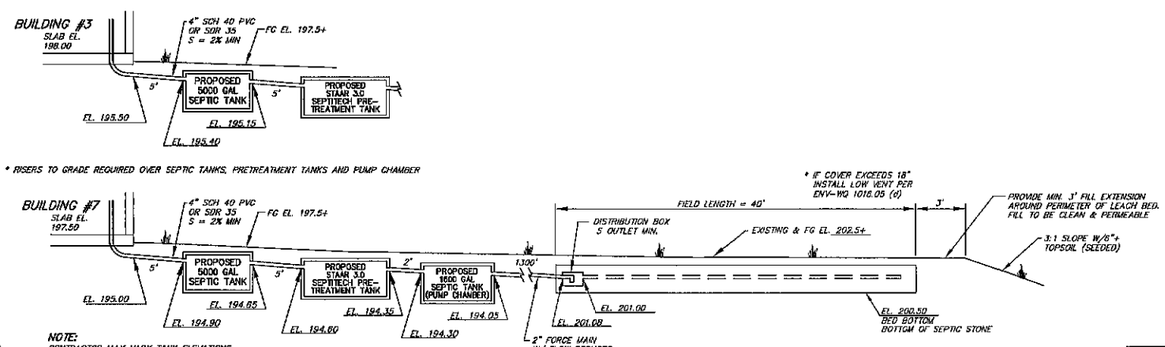

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SYSTEM PROFILE
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REVIEWED AND APPROVED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 4/10/2023
#eCA20230411023

PLANNING BOARD
BARRINGTON, NH
-APPROVED-
File Number 238-36-V-20-SP
Date 6/29/2023
Chairman

BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX, 603-583-4863

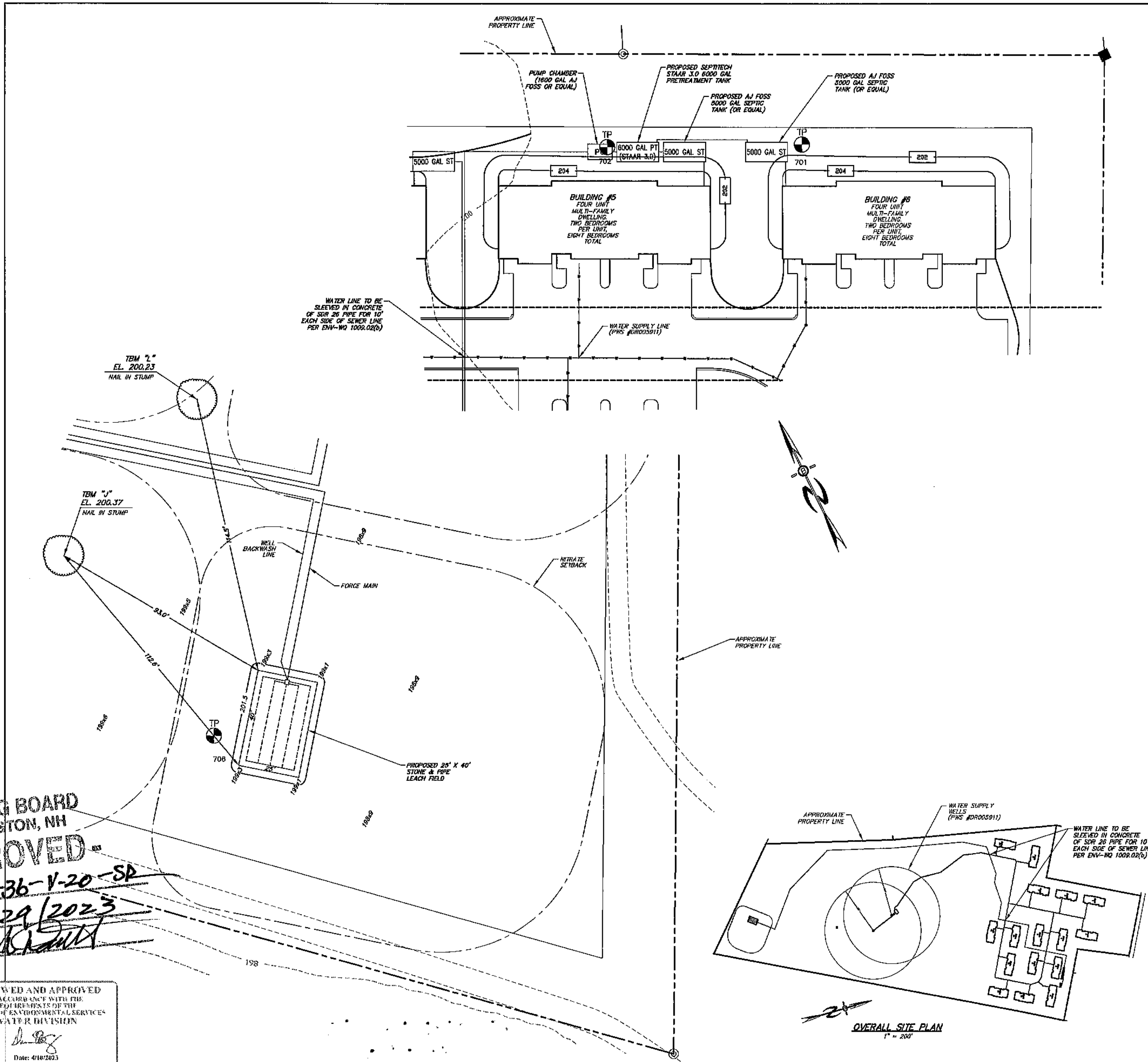
REVISIONS:	DATE:

DATE: FEBRUARY 2023 SCALE: AS SHOWN

DESIGNER STAMP
NEW HAMPSHIRE Designer of Subsurface Disposal Systems
Christian O. Smith No. 1543
Department of Environmental Services

Title:
PHASE I LEACH FIELDS
BUILDINGS 3 & 7
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH
EFFLUENT DISPOSAL PLAN

PROJECT NUMBER: NH-1263 SHEET NUMBER: 2 OF 2



PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SP
Date 6/29/2023
Chairman [signature]

REVIEWED AND APPROVED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
[signature]
Date: 4/10/2023
#eCA2023041024

TEST PIT LOGS

TEST PITS PERFORMED DECEMBER 20, 2022

TEST PIT "706"

DEPTH(")	DESCRIPTION
0-10"	10YR 4/3 LOAMY SAND, GRANULAR, FRIABLE
10-16"	7.5YR 5/6 LOAMY SAND, GRANULAR, FRIABLE
16-22"	10YR 6/6 SAND, GRANULAR, FRIABLE
22-46"	10YR 7/4 SAND, MASSIVE, FRIABLE
46-77"	7.5YR 7/3 SAND, MASSIVE, FRIABLE 20% REDOX

ESHWT = 46". REFUSAL: ROOTS TO
OBSERVED GROUND WATER: RESTRICTIVE LAYER:

SITE NOTES:

1. GRADING SHOWN IS FOR SEPTIC SYSTEM ONLY. ADDITIONAL GRADING IS AT THE DISCRETION OF THE CONTRACTOR AND/OR OWNER.
2. PER ENV-WQ 1003.13 (A)(3) THERE ARE NO KNOWN CEMETERIES LOCATED WITHIN 100' OF ANY PART OF THE EFFLUENT DISPOSAL SYSTEM. NO CONSTRUCTION TO TAKE PLACE WITHIN 25' OF BURIAL SITE, SEE ENV-WQ 1008.04(l).
3. NH-DES REQUIRES A PERIMETER DRAIN IF THE SLAB IS LESS THAN 18" TO THE SHWT. CERTAIN TOWNS REQUIRE A PERIMETER DRAIN AT ALL TIMES – CHECK LOCAL REGULATIONS. IT IS THE RECOMMENDATION OF THIS OFFICE A PERIMETER DRAIN BE INSTALLED REGARDLESS.
4. BEST MANAGEMENT PRACTICES ARE TO BE FOLLOWED DURING ALL CONSTRUCTION TO PREVENT SITE ALTERATION THAT MAY CAUSE EROSION AND/OR DRAINAGE ISSUES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE FOUNDATION IN SUCH A MANNER AS TO PREVENT WATER INFILTRATION IN THE BASEMENT.

DESIGN NOTES

DESIGN PERC RATE:
4 MIN/IN

HYDRAULIC LOADING: 2,400 GPD
2 BUILDINGS, 4 UNITS PER BUILDING,
2 BEDROOMS (300 GPD) PER UNIT =
2 X 4 X 300 = 2,400 GPD

EFFLUENT DISPOSAL AREA:
REQUIRED: 2400 GPD/100 = 24 X 140 SF PER 100 GPD = 3360 SF
3360 SF W/75% PRETREATMENT REDUCTION = 840 SF
+ 140 SF (100 GPD WELL BACKWASH) = 980 SF
PROVIDED: 25' X 40' = 1000 S.F.

NEAREST ABUTTING WELL: 75 +

NEAREST SURFACE WATER: 75' +

NEAREST POORLY DRAINED WETLAND: 50' +

NEAREST VERY POORLY DRAINED WETLAND: 75' +

USSCS SOIL CLASSIFICATION:
26B – WINDSOR
WEB SOIL SURVEY/SITE SPECIFIC SOIL SURVEY

BENCH MARKS: AS SHOWN

DESIGN INTENT:

THE BOTTOM OF THE EFFLUENT DISPOSAL AREA SHALL BE CONSTRUCTED AT EL. 199.50

THIS IS APPROXIMATELY 2" (.17') ABOVE THE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE EFFLUENT DISPOSAL SYSTEM, EL. 199.33

DIMENSIONS – EFFLUENT DISPOSAL AREA:
WIDTH = 25.0'
LENGTH = 40.0'
DIAGONAL = 47.2'

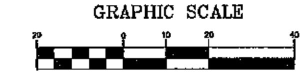
WETLAND NOTES

WETLANDS HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.06 BY GOVE ENVIRONMENTAL SERVICES, INC IN THE SPRING OF 2020.

THIS PLAN IS NOT A SURVEY

THE BUILDER/SITE CONTRACTOR IS RESPONSIBLE TO CONFIRM THE ZONING DIMENSIONAL REQUIREMENTS AND SETBACK LINE REQUIREMENTS PRIOR TO INITIATING CONSTRUCTION OF THE PROPOSED HOUSE AND SEPTIC SYSTEM. THE ZONING ORDINANCE OF THE MUNICIPALITY IS TO BE COMPLIED WITH. THE BUILDER/SITE CONTRACTOR IS ALSO RESPONSIBLE TO CONTACT THE MUNICIPALITY REGARDING INSPECTIONS PRIOR TO AND DURING CONSTRUCTION, I.E. LOCATION AND BED-BOTTOM INSPECTIONS. THIS PLAN IS NOT INTENDED TO BE USED AS A SITE PLAN

GRAPHIC SCALE

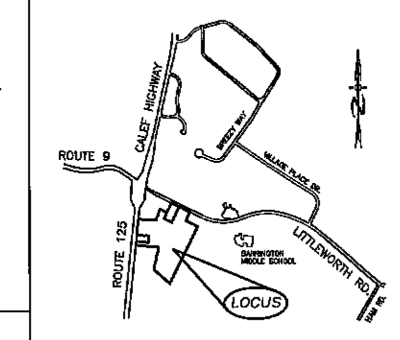


(1 INCH = 20 FEET)

OWNER OF RECORD

J & L TERRA HOLDINGS INC.
79 EXETER ROAD
NORTH HAMPTON, NH

LOCUS MAP



GENERAL NOTES

CONTRACTOR TO VERIFY ALL ELEVATIONS, INCLUDING TBM'S IN THE FIELD PRIOR TO CONSTRUCTION

FILL TO BE MEDIUM TO COARSE-TEXTURED SAND (0.25mm-2.0mm)

REMOVE TOPSOIL BEFORE PLACING FILL

4 INCH THICK LOAM & SEED AROUND PERIMETER OF FILL

SIDE SLOPES OF FILL= 3(HORIZONTAL): 1(VERTICAL)

75' SETBACK FROM HYDRIC A SOILS

50' SETBACK FROM HYDRIC B SOILS

NO VEHICULAR NOR LIVESTOCK TRAVEL NOR SNOW REMOVAL ALLOWED IN AREA OF SYSTEM.

CONCRETE STRUCTURE TO BE WATER TIGHT. ALL CONNECTIONS BETWEEN THE SEPTIC TANK AND THE PIPES LEADING TO AND EXITING FROM THE SEPTIC TANK SHALL BE SEALED WITH A WATER TIGHT, FLEXABLE JOINT CONNECTOR.

SYSTEM WILL BE REPLACED IN SAME LOCATION IN EVENT OF FAILURE.

RECOMMENDED CLEANING SEPTIC TANK AT LEAST ONCE EVERY 2 YEARS, OR AS NEEDED.

CROWN SYSTEM TO SHED RAINWATER.

SLOPE SYSTEM AWAY FROM HOUSE.

NO SURFACE WATER OR WELLS WITHIN 75'.

3 FT. FILL EXTENSION.

BED BOTTOM INSPECTION REQUIRED

ALL WATER LINE CROSSINGS MUST MEET ENV-WQ 1009.02.

PROVIDE CLEAN-OUTS AS NEEDED PER ENV-WQ 1009.03.

PLAN INTENT

THE INTENT OF THIS PLAN IS TO PROVIDE AN APPROVED EFFLUENT DISPOSAL AREA TO HANDLE THE LOADING FOR TWO BUILDINGS WITH 4 UNITS EACH, 2 BEDROOMS PER UNIT (BUILDINGS #5 & 6).

PHASE I

THE 16 BUILDINGS CONSTRUCTED IN THIS PHASE INCLUDE BUILDING NUMBERS ONE THROUGH 16.

DESIGNER STAMP

NEW HAMPSHIRE
Designer of Subsurface Disposal Systems
***
Christian O. Smith
No. 1643
Department of Environmental Services

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

REVISIONS:	DATE:
REVISED PER NHDES COMMENTS.	2/13/23

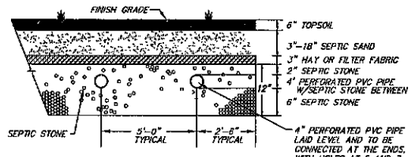
DATE: FEBRUARY 2023 SCALE: 1"=20'

Title:

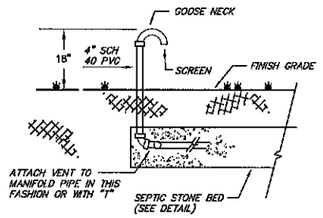
PHASE I LEACH FIELDS
BUILDINGS 5 & 6
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH

EFFLUENT DISPOSAL PLAN

PROJECT NUMBER: NH-1263 SHEET NUMBER: 1 OF 2



STONE AND PIPE FIELD CROSS SECTION
N.T.S.



LOW VENT DETAIL
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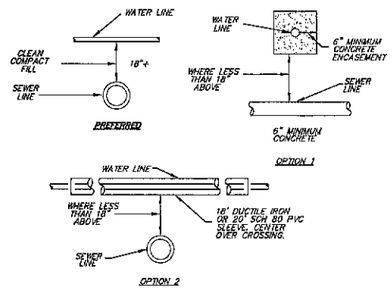
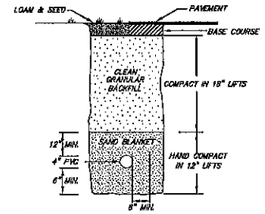


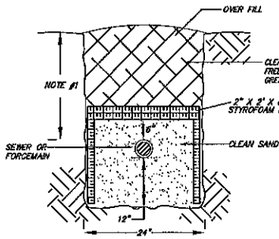
WATER / SEWER LINE CROSSING
NTS

NOTES:
1. WHEREVER POSSIBLE THE WATER LINE SHALL CROSS 18"+ ABOVE THE SEWER LINE.
2. THIS DETAIL ALSO APPLIES TO EFFLUENT FORCEMAINS.



NOTES:
1. MINIMUM COVER SHALL BE 6'+ FOR PLOWED AREAS, 4'+ FOR CROSS COUNTRY
2. MULTIPLE PIPES IN THE SAME TRENCH SHALL BE SEPARATED BY 12"+

STANDARD TRENCH DETAIL
FOR EFFLUENT SEWER OR FORCEMAIN
N.T.S.



NOTES:
1. INSULATE SEWER OR FORCEMAIN WHERE PIPE WILL BE LESS THAN 6' BELOW PLOWED AREAS OR LESS THAN 4' BELOW AREAS RUNNING CROSS COUNTRY
2. GAPS BETWEEN SECTIONS OF INSULATION TO BE COVERED WITH 2' X 2' X 2' PIECE OF INSULATION CENTERED OVER GAP.

PIPE INSULATION DETAIL
FOR EFFLUENT SEWER OR FORCEMAIN
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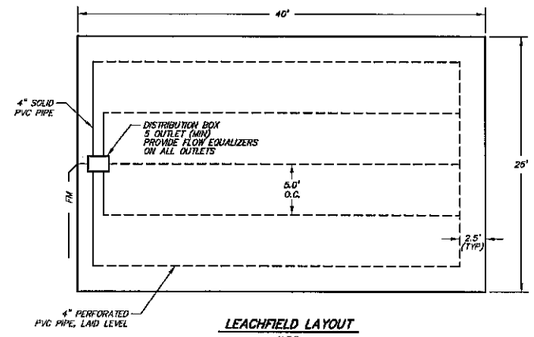

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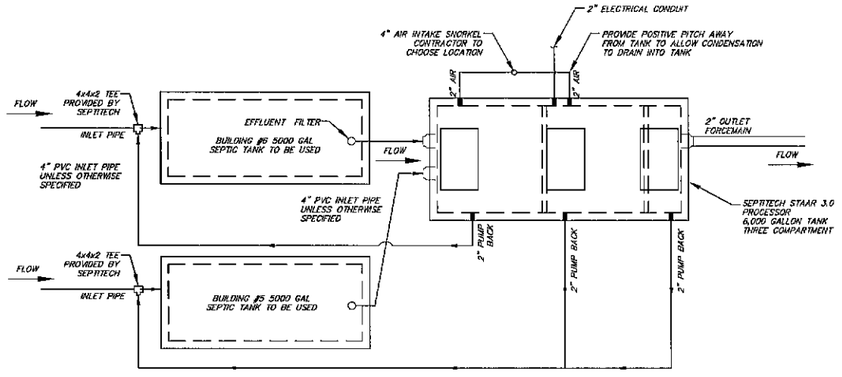

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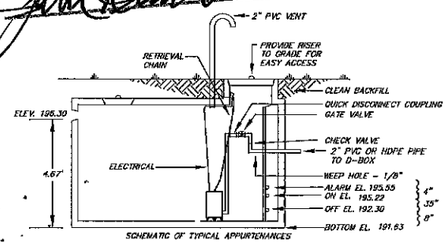
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SP
Date 6/29/2023
Chairman



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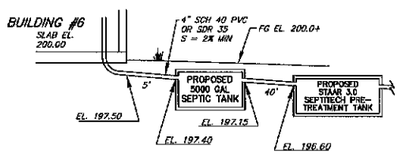
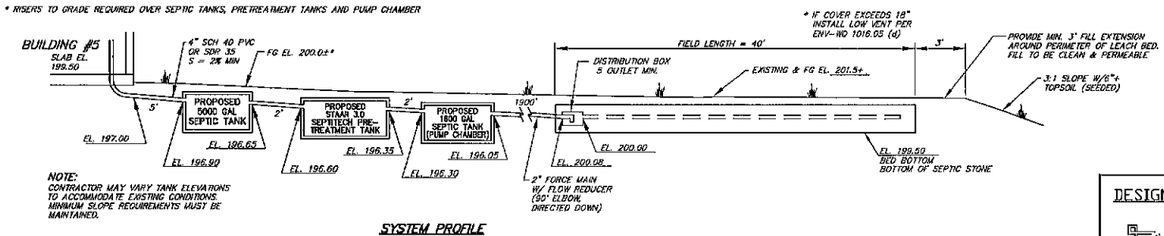


* RISERS TO GRADE REQUIRED OVER SEPTIC TANKS, PRETREATMENT TANKS AND PUMP CHAMBER



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SYSTEM PROFILE
N.T.S.

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IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 4/10/2023
#eCA20230410241

DESIGNER STAMP

NEW HAMPSHIRE Designer of Subsurface Disposal Systems
Christian O. Smith No. 1543
Department of Environmental Services

BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE, THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
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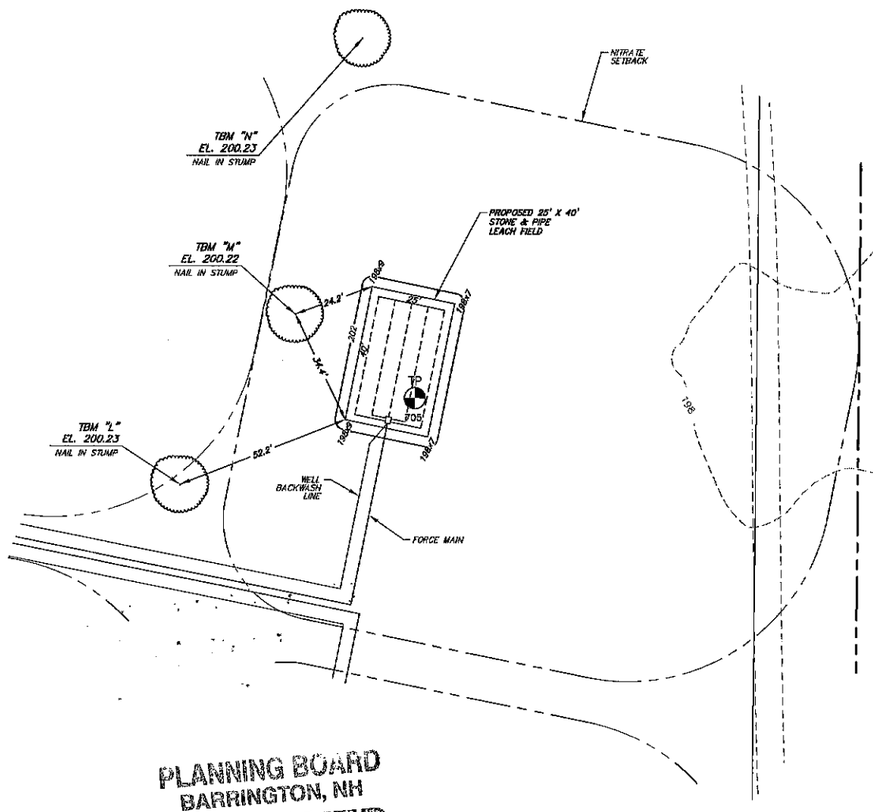
REVISIONS:	DATE:

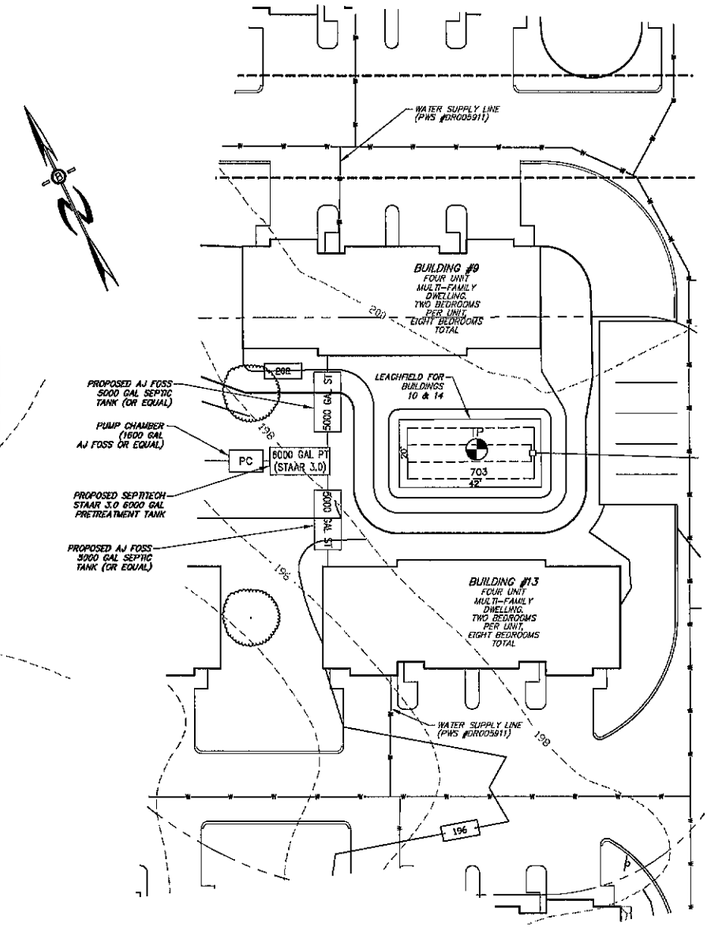
DATE: FEBRUARY 2023 SCALE: AS SHOWN

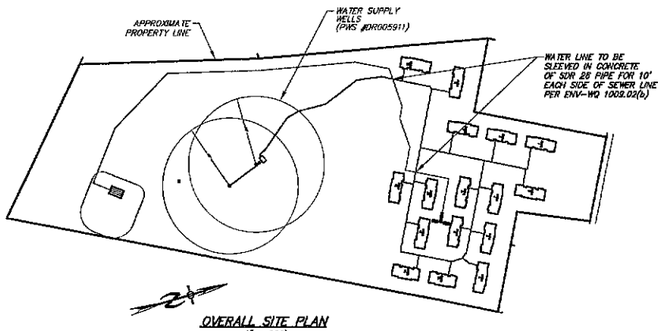
Title:
PHASE I LEACH FIELDS
BUILDINGS 5 & 6
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH

EFFLUENT DISPOSAL PLAN

PROJECT NUMBER: NH-1263 SHEET NUMBER: 2 OF 2







OVERALL SITE PLAN
1" = 200'

PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SP
Date 6/29/2023
Chairman

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TEST PIT LOGS

TEST PITS PERFORMED DECEMBER 20, 2022

TEST PIT "705"

DEPTH(")	DESCRIPTION
0-8"	7.5YR 4/2 LOAMY SAND, GRANULAR, FRIABLE
8-17"	10YR 5/8 LOAMY SAND, GRANULAR, FRIABLE
17-35"	10YR 7/8 SAND, MASSIVE, FRIABLE
35-63"	10YR 7/8 SAND, MASSIVE, FRIABLE 10% REDOX

ESHWT @ 35", REFUSAL: ROOTS TO:
OBSERVED GROUND WATER: RESTRICTIVE LAYER:

SITE NOTES:

1. GRADING SHOWN IS FOR SEPTIC SYSTEM ONLY. ADDITIONAL GRADING IS AT THE DISCRETION OF THE CONTRACTOR AND/OR OWNER.
2. PER ENV-WQ 1003.13 (A)(3) THERE ARE NO KNOWN CEMETERIES LOCATED WITHIN 100' OF ANY PART OF THE EFFLUENT DISPOSAL SYSTEM. NO CONSTRUCTION TO TAKE PLACE WITHIN 25' OF BURIAL SITE, SEE ENV-WQ 1008.04(i).
3. NH-DES REQUIRES A PERIMETER DRAIN IF THE SLAB IS LESS THAM 18" TO THE SHWT. CERTAIN TOWNS REQUIRE A PERIMETER DRAIN AT ALL TIMES - CHECK LOCAL REGULATIONS. IT IS THE RECOMMENDATION OF THIS OFFICE A PERIMETER DRAIN BE INSTALLED REGARDLESS.
4. BEST MANAGEMENT PRACTICES ARE TO BE FOLLOWED DURING ALL CONSTRUCTION TO PREVENT SITE ALTERATION THAT MAY CAUSE EROSION AND/OR DRAINAGE ISSUES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE FOUNDATION IN SUCH A MANNER AS TO PREVENT WATER INFILTRATION IN THE BASEMENT.

DESIGN NOTES

DESIGN PERC RATE:
4 MIN/IN

HYDRAULIC LOADING: 2,400 GPD
2 BUILDINGS, 4 UNITS PER BUILDING,
2 BEDROOMS (300 GPD) PER UNIT =
2 X 4 X 300 = 2,400 GPD

EFFLUENT DISPOSAL AREA:
REQUIRED: 2400 GPD/100 = 24 X 140 SF PER 100 GPD = 3360 SF
3360 SF W/75% PRETREATMENT REDUCTION = 840 SF
+ 140 SF (100 GPD WELL BACKWASH) = 980 SF
PROVIDED: 25' X 40' = 1000 S.F.

NEAREST ABUTTING WELL: 75 +
NEAREST SURFACE WATER: 75' +
NEAREST POORLY DRAINED WETLAND: 50' +
NEAREST VERY POORLY DRAINED WETLAND: 75' +

USSCS SOIL CLASSIFICATION:
26B - WINDSOR
WEB SOIL SURVEY/SITE SPECIFIC SOIL SURVEY

BENCH MARKS: AS SHOWN

DESIGN INTENT:
THE BOTTOM OF THE EFFLUENT DISPOSAL AREA SHALL BE CONSTRUCTED AT EL. 200.00

THIS IS APPROXIMATELY 1.1' (1.08') ABOVE THE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE EFFLUENT DISPOSAL SYSTEM, EL. 198.9

DIMENSIONS - EFFLUENT DISPOSAL AREA:
WIDTH = 25.0'
LENGTH = 40.0'
DIAGONAL = 47.2'

WETLAND NOTES

WETLANDS HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.06 BY GOVE ENVIRONMENTAL SERVICES, INC IN THE SPRING OF 2020.

THIS PLAN IS NOT A SURVEY

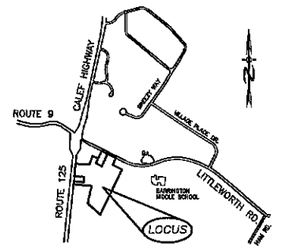
THE BUILDER/SITE CONTRACTOR IS RESPONSIBLE TO CONFIRM THE ZONING DIMENSIONAL REQUIREMENTS AND SETBACK LINE REQUIREMENTS PRIOR TO INITIATING CONSTRUCTION OF THE PROPOSED HOUSE AND SEPTIC SYSTEM. THE ZONING ORDINANCE OF THE MUNICIPALITY IS TO BE COMPLIED WITH. THE BUILDER/SITE CONTRACTOR IS ALSO RESPONSIBLE TO CONTACT THE MUNICIPALITY REGARDING INSPECTIONS PRIOR TO AND DURING CONSTRUCTION, I.E. LOCATION AND BED-BOTTOM INSPECTIONS. THIS PLAN IS NOT INTENDED TO BE USED AS A SITE PLAN

GRAPHIC SCALE
20 0 10 20 40
(1 INCH = 20 FEET)

OWNER OF RECORD

J & L TERRA HOLDINGS INC.
79 EXETER ROAD
NORTH HAMPTON, NH

LOCUS MAP



GENERAL NOTES

CONTRACTOR TO VERIFY ALL ELEVATIONS, INCLUDING TBM'S IN THE FIELD PRIOR TO CONSTRUCTION

FILL TO BE MEDIUM TO COARSE-TEXTURED SAND (0.25mm-2.0mm)

REMOVE TOPSOIL BEFORE PLACING FILL

4 INCH THICK LOAM & SEED AROUND PERIMETER OF FILL

SIDE SLOPES OF FILL= 3(HORIZONTAL): 1(VERTICAL)

75' SETBACK FROM HYDRIC A SOILS

50' SETBACK FROM HYDRIC B SOILS

NO VEHICULAR NOR LIVESTOCK TRAVEL NOR SNOW REMOVAL ALLOWED IN AREA OF SYSTEM.

CONCRETE STRUCTURE TO BE WATER TIGHT, ALL CONNECTIONS BETWEEN THE SEPTIC TANK AND THE PIPES LEADING TO AND EXITING FROM THE SEPTIC TANK SHALL BE SEALED WITH A WATER TIGHT, FLEXABLE JOINT CONNECTOR.

SYSTEM WILL BE REPLACED IN SAME LOCATION IN EVENT OF FAILURE.

RECOMMENDED CLEANING SEPTIC TANK AT LEAST ONCE EVERY 2 YEARS, OR AS NEEDED.

CROWN SYSTEM TO SHED RAINWATER.

SLOPE SYSTEM AWAY FROM HOUSE.

NO SURFACE WATER OR WELLS WITHIN 75'.

3_ FT. FILL EXTENSION.

BED BOTTOM INSPECTION REQUIRED

ALL WATER LINE CROSSINGS MUST MEET ENV-WQ 1009.02.

PROVIDE CLEAN-OUTS AS NEEDED PER ENV-WQ 1008.03.

PLAN INTENT

THE INTENT OF THIS PLAN IS TO PROVIDE AN APPROVED EFFLUENT DISPOSAL AREA TO HANDLE THE LOADING FOR TWO BUILDINGS WITH 4 UNITS EACH, 2 BEDROOMS PER UNIT (BUILDINGS #9 & 6).

PHASE I

THE 16 BUILDINGS CONSTRUCTED IN THIS PHASE INCLUDE BUILDING NUMBERS ONE THROUGH 16.

DESIGNER STAMP

NEW HAMPSHIRE
Designer of Subsurface Disposal Systems
Christian O. Smith
No. 1643
Department of Environmental Services

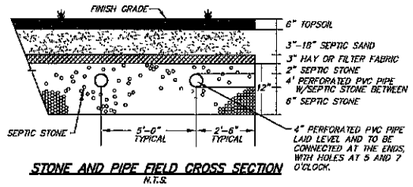
BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

REVISIONS:	DATE:

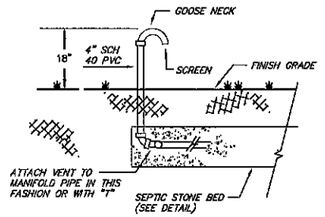
DATE: FEBRUARY 2023 SCALE: 1"=20'

Title:
PHASE I LEACH FIELDS
BUILDINGS 9 & 13
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH
EFFLUENT DISPOSAL PLAN

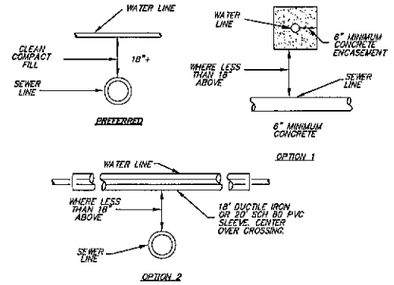
PROJECT NUMBER: NH-1263 SHEET NUMBER: 1 OF 2



STONE AND PIPE FIELD CROSS SECTION
N.T.S.

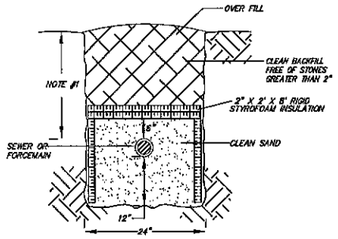


LOW VENT DETAIL
NTS



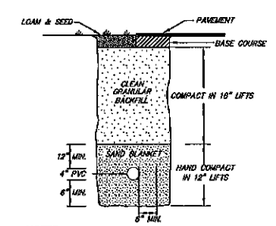
WATER / SEWER LINE CROSSING
NTS

NOTES:
1. WHEREVER POSSIBLE THE WATER LINE SHALL CROSS 18"+ ABOVE THE SEWER LINE.
2. THIS DETAIL ALSO APPLIES TO EFFLUENT FORCEMAINS.



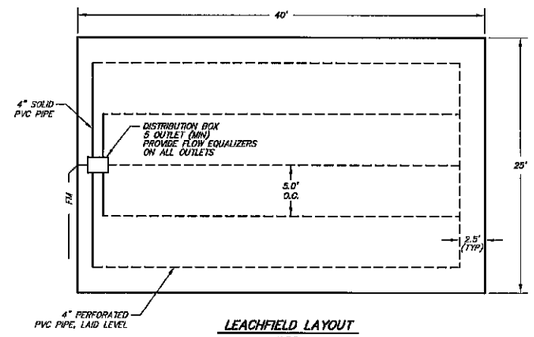
NOTES:
1. INSULATE SEWER OR FORCEMAIN WHERE PIPE WILL BE LESS THAN 6' BELOW PLOWED AREAS OR LESS THAN 4' BELOW AREAS RUNNING CROSS COUNTRY.
2. GAPS BETWEEN SECTIONS OF INSULATION TO BE COVERED WITH 2' X 2' X 2" PIECE OF INSULATION CENTERED OVER GAP.

PIPE INSULATION DETAIL
FOR EFFLUENT SEWER OR FORCEMAIN
N.T.S.

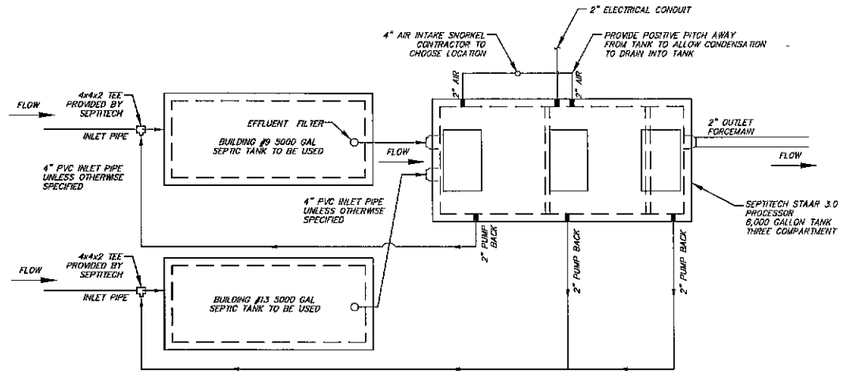


NOTES:
1. MINIMUM COVER SHALL BE 6'+ FOR PLOWED AREAS, 4'+ FOR CROSS COUNTRY.
2. MULTIPLE PIPES IN THE SAME TRENCH SHALL BE SEPARATED BY 12"+.

STANDARD TRENCH DETAIL
FOR EFFLUENT SEWER OR FORCEMAIN
N.T.S.



LEACHFIELD LAYOUT
N.T.S.



GENERAL NOTES

TANK(S) SHALL NOT BE INSTALLED AT A DEPTH ANY GREATER THAN 24-INCHES. TANK INSTALLATIONS REQUIRING A DEPTH GREATHER THAN 24-INCHES SHALL DO SO WITH PRIOR APPROVAL BY SEPTITECH ONLY. ANY RISERS REQUIRED TO BRING THE ALUMINUM HATCHES TO GRADE ARE THE RESPONSIBILITY OF THE CONTRACTOR.

TANK(S) SHALL BE INSTALLED WITH A MINIMUM OF 12-INCHES OF COMPACTED CRUSHED STONE BEDDING. SELECT FILL SHALL BE USED FOR BACKFILLING AROUND TANKS. NATIVE MATERIAL MAY BE USED IF APPROVED BY THE DESIGN ENGINEER.

WATER TESTING: CONTRACTOR IS RESPONSIBLE FOR WATER TESTING THE CONCRETE TANK(S) ONCE THE TANK(S) INSTALLATION HAS BEEN COMPLETED AND ALLOWED TO SET OVERNIGHT. WATER TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C1227,9.2. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CLEAN WATER FOR THE TESTING, FILLING THE TANKS, AND PUMPING THE TANKS DRY ONCE TESTING IS COMPLETED.

EXTERIOR PIPING: CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL EXTERIOR PIPING PER SEPTITECH INSTALLATION DRAWINGS.

AIR INTAKE PIPING: AIR INTAKE SNORKEL SHALL BE INSTALLED WITHIN 100 FEET OF THE PROCESSOR TANK. AIR INTAKE PIPING SHALL BE INSTALLED SUCH THAT A POSITIVE PITCH IS PROVIDED BACK TOWARDS THE PROCESSOR TANK SUCH THAT ANY CONDENSTAION BUILD UP IS FREE TO DRAIN.

PIPE INSULATION: CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL PIPING EXTERIOR TO THE SEPTITECH PROCESSOR INCLUDING THE DISCHARGE LINE FROM THE PROCESSOR TO THE DISPOSAL FIELD.

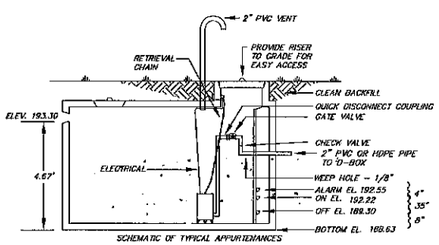
TANK INSULATION: AFTER CONCRETE TANKS HAVE BEEN INSTALLED AND WATER TESTING IS COMPLETED, CONTRACTOR SHALL INSULATE THE TOP AND SIDES OF THE PROCESSOR TANK BELOW FROST DEPTH (4-FEET MINIMUM) DOWN THE SIDES OF THE TANK WITH 2" RIGID FOAM (BLUE) BOARD INSULATION AND THEN COMPLETE BACKFILLING. CONTRACTOR IS ALSO RESPONSIBLE FOR INSTALLING INSULATION OVER THE TOP OF THE FORCEMAIN FROM THE SEPTITECH SYSTEM TO THE DISPOSAL FIELD IF NOT BURIED BELOW FROST LEVEL IN ORDER TO PREVENT FREEZING.

ELECTRICAL: ALL ELECTRICAL WORK IS THE RESPONSIBILITY OF THE CONTRACTOR'S LICENSED ELECTRICIAN AND IS NOT PROVIDED BY SEPTITECH. SYSTEM CONTROLLER SHOULD BE INSTALLED IN A HEATED BUILDING WHERE AN AMBIENT TEMPERATURE RANGE OF 60 TO 90 DEGREES F IS MAINTAINED. IF THE CONTROL PANEL MUST BE LOCATED OUTSIDE, PLEASE NOTIFY SEPTITECH, INC. SO A HEATER MAY BE INSTALLED WITHIN THE ENCLOSURE.

SEPTITECH PROCESSORS CAN ALSO BE BUILT TO 3-PHASE POWER REQUIREMENTS. IF 3-PHASE IS REQUIRED, PLEASE NOTIFY SEPTITECH AT THE TIME OF CONTRACT SIGNING.

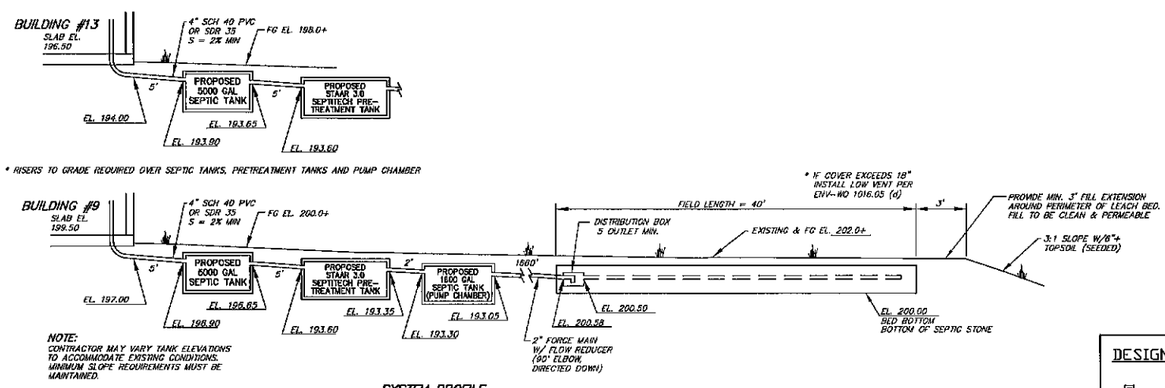
INTERNET: CONTRACTOR IS RESPONSIBLE FOR INSTALLING AN INTERNET LINE TO THE PROCESSOR CONTROL PANEL FOR THE TELEMETRY. ANY WORK PERFORMED ON THE SYSTEM WITHOUT THE INSTALLATION OF THE INTERNET LINE SHALL BE AT THE EXPENSE OF THE OWNER.

PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SR
Date 6/29/2023
Chairman



PUMP DETAIL
N.T.S.

PUMP NOTES
1" DRAW DOWN = 32 GALS.±. PUMP TO BE SET TO DOSES OF 1125 GALS./CYCLE. PUMP TO BE CAPABLE OF 125 GPM AT A TOTAL HEAD OF 12 FEET RECOMMENDED WHERE MIM60 DUPLEX SEWAGE PUMPS OR EQUIVALENT
APPROX. RUNNING TIME WITH PUMP SPECIFIED TO = 9 MIN. ±



NOTE:
CONTRACTOR MAY VARY TANK ELEVATIONS TO ACCOMMODATE EXISTING CONDITIONS. MINIMUM SLOPE REQUIREMENTS MUST BE MAINTAINED.

SYSTEM PROFILE
N.T.S.

REVIEWED AND APPROVED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 4/11/2023
#CA20230411101

DESIGNER STAMP
NEW HAMPSHIRE
Designer of Subsurface Disposal Systems
Christian O. Smith No. 1643
Department of Environmental Services

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE, THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

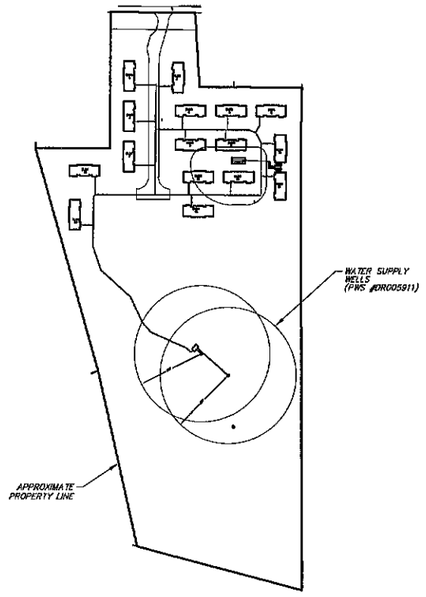
REVISIONS:	DATE:

DATE: FEBRUARY 2023 SCALE: AS SHOWN

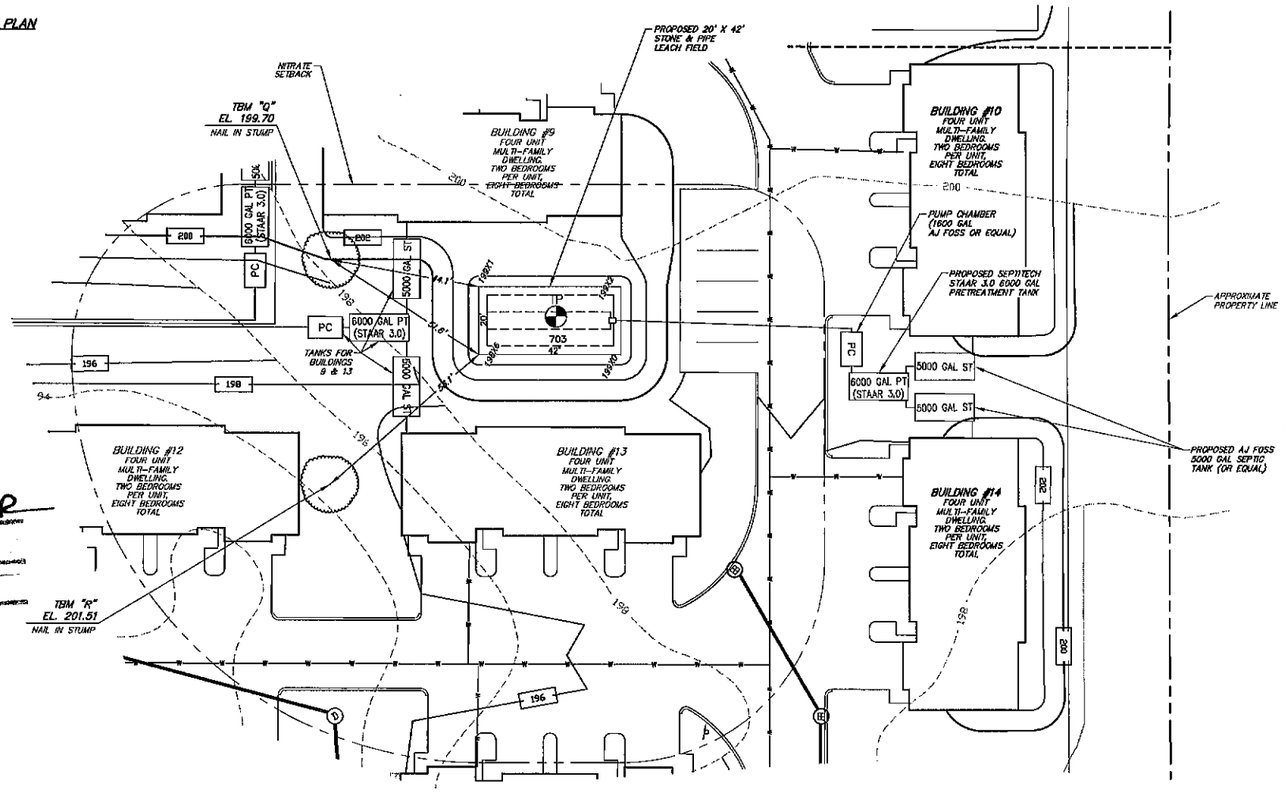
Title:
PHASE I LEACH FIELDS
BUILDINGS 9 & 13
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH

EFFLUENT DISPOSAL PLAN

PROJECT NUMBER: NH-1263 SHEET NUMBER: 2 OF 2



OVERALL SITE PLAN
1" = 200'



PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SP
Date 6/29/2023
Chairman

REVIEWED AND APPROVED
IN ACCORDANCE WITH THE
REQUIREMENTS OF THE
NH DEPT OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 4/11/2023
#eCA20230411102

TEST PIT LOGS

TEST PITS PERFORMED DECEMBER 20, 2022

TEST PIT "706"

DEPTH(")	DESCRIPTION
0-10"	10YR 4/3 LOAMY SAND, GRANULAR, FRIABLE
10-21"	10YR 5/6 LOAMY SAND, GRANULAR, FRIABLE
21-40"	10YR 7/3 SAND, MASSIVE, FRIABLE 10% REDOX
40-57"	2.5Y 7/2 SAND, MASSIVE, FRIABLE 20% REDOX
57-88"	7.5YR 5/8 SAND, MASSIVE, FRIABLE 40% REDOX

ESHWT = 21". REFUSAL: ROOTS TO
OBSERVED GROUND WATER: RESTRICTIVE LAYER:

SITE NOTES:

1. GRADING SHOWN IS FOR SEPTIC SYSTEM ONLY. ADDITIONAL GRADING IS AT THE DISCRETION OF THE CONTRACTOR AND/OR OWNER.
2. PER ENV-WQ 1003.13 (a)(3) THERE ARE NO KNOWN CEMETERIES LOCATED WITHIN 100' OF ANY PART OF THE EFFLUENT DISPOSAL SYSTEM. NO CONSTRUCTION TO TAKE PLACE WITHIN 25' OF BURIAL SITE, SEE ENV-WQ 1008.04(i).
3. NH-DES REQUIRES A PERIMETER DRAIN IF THE SLAB IS LESS THAN 18" TO THE SHWT. CERTAIN TOWNS REQUIRE A PERIMETER DRAIN AT ALL TIMES - CHECK LOCAL REGULATIONS. IT IS THE RECOMMENDATION OF THIS OFFICE A PERIMETER DRAIN BE INSTALLED REGARDLESS.
4. BEST MANAGEMENT PRACTICES ARE TO BE FOLLOWED DURING ALL CONSTRUCTION TO PREVENT SITE ALTERATION THAT MAY CAUSE EROSION AND/OR DRAINAGE ISSUES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE FOUNDATION IN SUCH A MANNER AS TO PREVENT WATER INFILTRATION IN THE BASEMENT.

DESIGN NOTES

DESIGN PERC RATE:
4 MIN/IN

HYDRAULIC LOADING: 2,400 GPD
2 BUILDINGS, 4 UNITS PER BUILDING,
2 BEDROOMS (300 GPD) PER UNIT =
2 X 4 X 300 = 2,400 GPD

EFFLUENT DISPOSAL AREA:
REQUIRED: 2400 GPD/100 = 24 X 140 SF PER 100 GPD = 3360 SF
3360 SF W/75% PRETREATMENT REDUCTION = 840 SF
PROVIDED: 20' X 42' = 840 S.F.

NEAREST ABUTTING WELL: 75' +
NEAREST SURFACE WATER: 75' +
NEAREST POORLY DRAINED WETLAND: 50' +
NEAREST VERY POORLY DRAINED WETLAND: 75' +

USSCS SOIL CLASSIFICATION:
313B - GEERFIELD
WEB SOIL SURVEY/SITE SPECIFIC SOIL SURVEY

BENCH MARKS: AS SHOWN

DESIGN INTENT:
THE BOTTOM OF THE EFFLUENT DISPOSAL AREA SHALL BE CONSTRUCTED AT EL. 201.50

THIS IS APPROXIMATELY 27" (2.25') ABOVE THE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE EFFLUENT DISPOSAL SYSTEM. EL. 199.25

DIMENSIONS - EFFLUENT DISPOSAL AREA:
WIDTH = 20.0'
LENGTH = 42.0'
DIAGONAL = 46.5'

WETLAND NOTES

WETLANDS HAVE BEEN DELINEATED IN ACCORDANCE WITH ENV-WQ 1014.06 BY GOVE ENVIRONMENTAL SERVICES, INC IN THE SPRING OF 2020.

****THIS PLAN IS NOT A SURVEY****

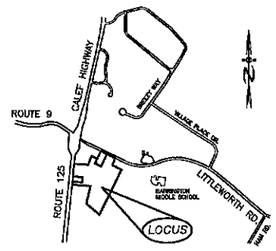
THE BUILDER/SITE CONTRACTOR IS RESPONSIBLE TO CONFIRM THE ZONING DIMENSIONAL REQUIREMENTS AND SETBACK LINE REQUIREMENTS PRIOR TO INITIATING CONSTRUCTION OF THE PROPOSED HOUSE AND SEPTIC SYSTEM. THE ZONING ORDINANCE OF THE MUNICIPALITY IS TO BE COMPLIED WITH. THE BUILDER/SITE CONTRACTOR IS ALSO RESPONSIBLE TO CONTACT THE MUNICIPALITY REGARDING INSPECTIONS PRIOR TO AND DURING CONSTRUCTION, I.E. LOCATION AND BED-BOTTOM INSPECTIONS. THIS PLAN IS NOT INTENDED TO BE USED AS A SITE PLAN

GRAPHIC SCALE
20 0 10 20 40
(1 INCH = 20 FEET)

OWNER OF RECORD

J & L TERRA HOLDINGS INC.
76 EXETER ROAD
NORTH HAMPTON, NH

LOCUS MAP



GENERAL NOTES

CONTRACTOR TO VERIFY ALL ELEVATIONS, INCLUDING TBM'S IN THE FIELD PRIOR TO CONSTRUCTION

FILL TO BE MEDIUM TO COARSE-TEXTURED SAND (0.25mm-2.0mm)

REMOVE TOPSOIL BEFORE PLACING FILL

4 INCH THICK LOAM & SEED AROUND PERIMETER OF FILL

SIDE SLOPES OF FILL= 3(HORIZONTAL): 1(VERTICAL)

75' SETBACK FROM HYDRIC A SOILS

50' SETBACK FROM HYDRIC B SOILS

NO VEHICULAR NOR LIVESTOCK TRAVEL NOR SNOW REMOVAL ALLOWED IN AREA OF SYSTEM.

CONCRETE STRUCTURE TO BE WATER TIGHT. ALL CONNECTIONS BETWEEN THE SEPTIC TANK AND THE PIPES LEADING TO AND EXITING FROM THE SEPTIC TANK SHALL BE SEALED WITH A WATER TIGHT, FLEXIBLE JOINT CONNECTOR.

SYSTEM WILL BE REPLACED IN SAME LOCATION IN EVENT OF FAILURE.

RECOMMENDED CLEANING SEPTIC TANK AT LEAST ONCE EVERY 2 YEARS, OR AS NEEDED.

GROWN SYSTEM TO SHED RAINWATER.

SLOPE SYSTEM AWAY FROM HOUSE.

NO SURFACE WATER OR WELLS WITHIN 75'.

3_ FT. FILL EXTENSION.

BED BOTTOM INSPECTION REQUIRED

ALL WATER LINE CROSSINGS MUST MEET ENV-WQ 1009.02.

PROVIDE CLEAN-OUTS AS NEEDED PER ENV-WQ 1009.03.

PLAN INTENT

THE INTENT OF THIS PLAN IS TO PROVIDE AN APPROVED EFFLUENT DISPOSAL AREA TO HANDLE THE LOADING FOR TWO BUILDINGS WITH 4 UNITS EACH, 2 BEDROOMS PER UNIT (BUILDINGS #10 & 14).

PHASE I

THE 16 BUILDINGS CONSTRUCTED IN THIS PHASE INCLUDE BUILDING NUMBERS ONE THROUGH 16.

DESIGNER STAMP

NEW HAMPSHIRE
Designer
of
Subsurface Disposal
Systems
Christian O. Smith
No. 1643
Department of Environmental Services

BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

REVISIONS:	DATE:

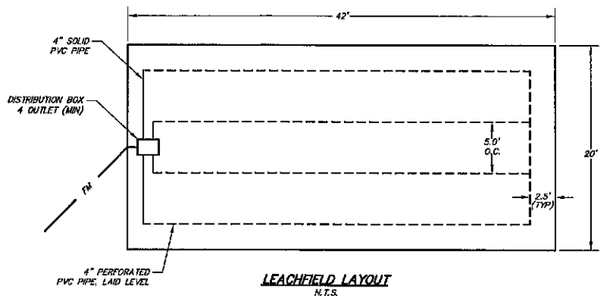
DATE: FEBRUARY 2023 SCALE: 1"=20'

Title:

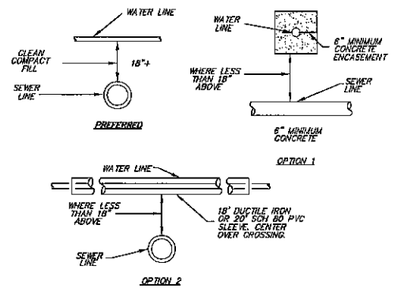
PHASE I LEACH FIELDS
BUILDINGS 10 & 14
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH

EFFLUENT DISPOSAL PLAN

PROJECT NUMBER: NH-1283 SHEET NUMBER: 1 OF 2

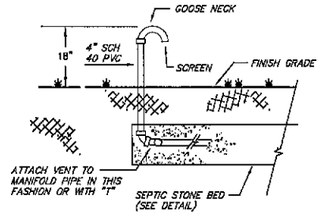


LEACHFIELD LAYOUT
N.T.S.

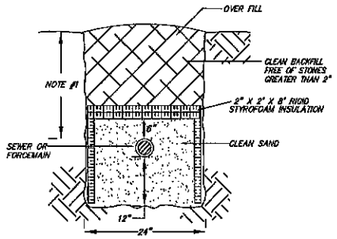


WATER / SEWER LINE CROSSING
NTS

NOTES:
1. WHEREVER POSSIBLE THE WATER LINE SHALL CROSS 18"+ ABOVE THE SEWER LINE.
2. THIS DETAIL ALSO APPLIES TO EFFLUENT FORCEMAINS.

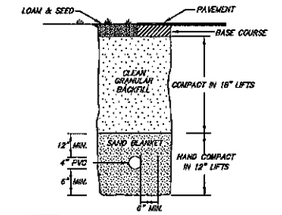


LOW VENT DETAIL
NTS



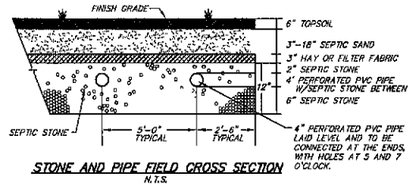
NOTES:
1. INSULATE SEWER OR FORCEMAIN WHERE PIPE WILL BE LESS THAN 6' BELOW PLOWED AREAS OR LESS THAN 4' BELOW AREAS RUNNING CROSS COUNTRY
2. GAPS BETWEEN SECTIONS OF INSULATION TO BE COVERED WITH 2' X 2' X 2" PIECE OF INSULATION CENTERED OVER GAP.

PIPE INSULATION DETAIL

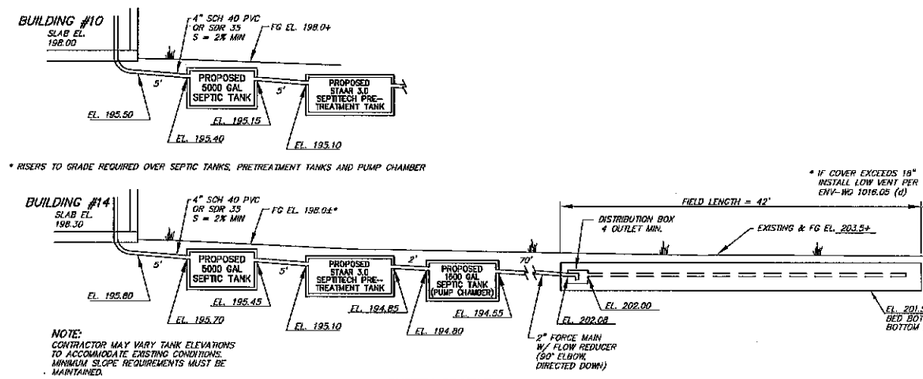


NOTES:
1. MINIMUM COVER SHALL BE 6'+ FOR PLOWED AREAS, 4'+ FOR CROSS COUNTRY
2. MULTIPLE PIPES IN THE SAME TRENCH SHALL BE SEPARATED BY 12"+

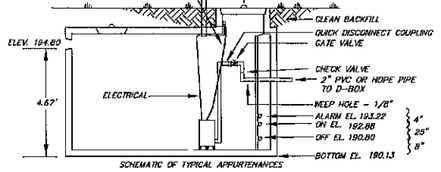
STANDARD TRENCH DETAIL
FOR EFFLUENT SEWER OR FORCEMAIN
N.T.S.



STONE AND PIPE FIELD CROSS SECTION
N.T.S.



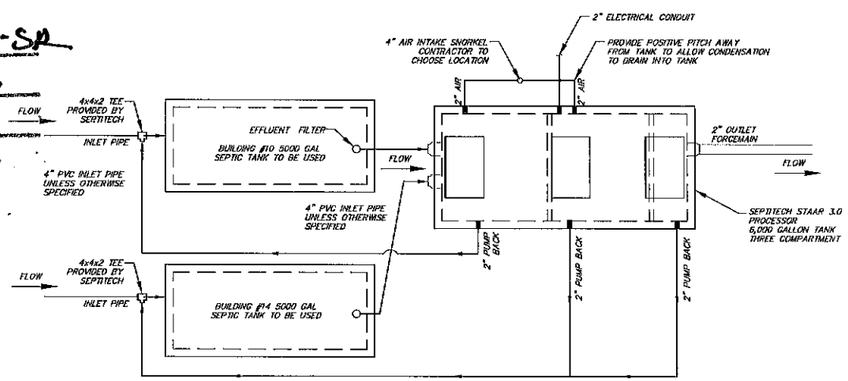
SYSTEM PROFILE
N.T.S.



SCHEMATIC OF TYPICAL APPURTENANCES

PUMP DETAIL
N.T.S.

PUMP NOTES
1" DRAW DOWN ≈ 32 GALS.±. PUMP TO BE SET TO DOSES OF 800 GALS./CYCLE. PUMP TO BE CAPABLE OF 80 GPM AT A TOTAL HEAD OF 12 FEET. RECOMMENDED MYERS ME49 DUPLEX SEWAGE PUMPS OR EQUIVALENT
APPROX. RUNNING TIME WITH PUMP SPECIFIED TO = 10 MIN. ±



GENERAL NOTES

TANK(S) SHALL NOT BE INSTALLED AT A DEPTH ANY GREATER THAN 24-INCHES. TANK INSTALLATIONS REQUIRING A DEPTH GREATHER THAN 24-INCHES SHALL DO SO WITH PRIOR APPROVAL BY SEPTITECH ONLY. ANY RISERS REQUIRED TO BRING THE ALUMINUM HATCHES TO GRADE ARE THE RESPONSIBILITY OF THE CONTRACTOR.

TANK(S) SHALL BE INSTALLED WITH A MINIMUM OF 12-INCHES OF COMPACTED CRUSHED STONE BEDDING. SELECT FILL SHALL BE USED FOR BACKFILLING AROUND TANKS. NATIVE MATERIAL MAY BE USED IF APPROVED BY THE DESIGN ENGINEER.

WATER TESTING: CONTRACTOR IS RESPONSIBLE FOR WATER TESTING THE CONCRETE TANK(S) ONCE THE TANK(S) INSTALLATION HAS BEEN COMPLETED AND ALLOWED TO SET OVERNIGHT. WATER TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C1227.9.2. INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CLEAN WATER FOR THE TESTING, FILLING THE TANKS, AND PUMPING THE TANKS DRY ONCE TESTING IS COMPLETED.

EXTERIOR PIPING: CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL EXTERIOR PIPING PER SEPTITECH INSTALLATION DRAWINGS.

AIR INTAKE PIPING: AIR INTAKE SNORKEL SHALL BE INSTALLED WITHIN 100 FEET OF THE PROCESSOR TANK. AIR INTAKE PIPING SHALL BE INSTALLED SUCH THAT A POSITIVE PITCH IS PROVIDED BACK TOWARDS THE PROCESSOR TANK SUCH THAT ANY CONDENSATION BUILD UP IS FREE TO DRAIN.

PIPE INSULATION: CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL PIPING EXTERIOR TO THE SEPTITECH PROCESSOR INCLUDING THE DISCHARGE LINE FROM THE PROCESSOR TO THE DISPOSAL FIELD.

TANK INSULATION: AFTER CONCRETE TANKS HAVE BEEN INSTALLED AND WATER TESTING IS COMPLETED, CONTRACTOR SHALL INSULATE THE TOP AND SIDES OF THE PROCESSOR TANK BELOW FROST DEPTH (4-FEET MINIMUM) DOWN THE SIDES OF THE TANK WITH 2" RIGID FOAM (BLUE) BOARD INSULATION AND THEN COMPLETE BACKFILLING. CONTRACTOR IS ALSO RESPONSIBLE FOR INSTALLING INSULATION OVER THE TOP OF THE FORCEMAIN FROM THE SEPTITECH SYSTEM TO THE DISPOSAL FIELD IF NOT BURIED BELOW FROST LEVEL IN ORDER TO PREVENT FREEZING.

ELECTRICAL: ALL ELECTRICAL WORK IS THE RESPONSIBILITY OF THE CONTRACTOR'S LICENSED ELECTRICIAN AND IS NOT PROVIDED BY SEPTITECH. SYSTEM CONTROLLER SHOULD BE INSTALLED IN A HEATED BUILDING WHERE AN AMBIENT TEMPERATURE RANGE OF 60 TO 90 DEGREES F IS MAINTAINED. IF THE CONTROL PANEL MUST BE LOCATED OUTSIDE, PLEASE NOTIFY SEPTITECH, INC. SO A HEATER MAY BE INSTALLED WITHIN THE ENCLOSURE.

SEPTITECH PROCESSORS CAN ALSO BE BUILT TO 3-PHASE POWER REQUIREMENTS. IF 3-PHASE IS REQUIRED, PLEASE NOTIFY SEPTITECH AT THE TIME OF CONTRACT SIGNING.

INTERNET: CONTRACTOR IS RESPONSIBLE FOR INSTALLING AN INTERNET LINE TO THE PROCESSOR CONTROL PANEL FOR THE TELEMETRY. ANY WORK PERFORMED ON THE SYSTEM WITHOUT THE INSTALLATION OF THE INTERNET LINE SHALL BE AT THE EXPENSE OF THE OWNER.

PLANNING BOARD
BARRINGTON, NH
APPROVED
File Number: 238-36-V-20-SP
Date: 6/24/2023
Chairman: Josh Lovell

REVIEWED AND APPROVED
IN ACCORDANCE WITH THE REQUIREMENTS OF THE SUBDIVISION OF ENVIRONMENTAL SERVICES
WATER DIVISION
Date: 4/11/2023
#CA20230411102

DESIGNER STAMP
NEW HAMPSHIRE Designer of Subsurface Disposal Systems
Christian O. Smith No. 1543
Department of Environmental Services

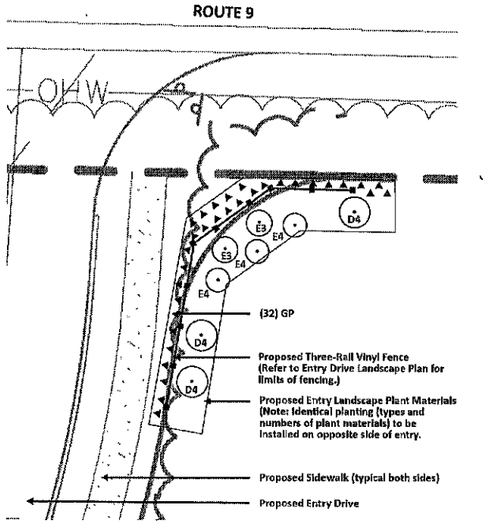
BA BEALS ASSOCIATES, PLLC
70 PORTSMOUTH AVE, THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

REVISIONS:	DATE:

DATE: FEBRUARY 2023 SCALE: AS SHOWN

Title:
PHASE I LEACH FIELDS
BUILDINGS 10 & 14
LOCATED OFF ROUTE 9
TAX MAP 238, LOT 36
BARRINGTON, NH
EFFLUENT DISPOSAL PLAN

PROJECT NUMBER: NH-1263 SHEET NUMBER: 2 OF 2



ENTRY LANDSCAPE PLAN (TYPICAL ON EAST AND WEST SIDES OF ENTRY DRIVE)
scale: 1" = 10' - 0"

PLANTING KEY AND SCHEDULE

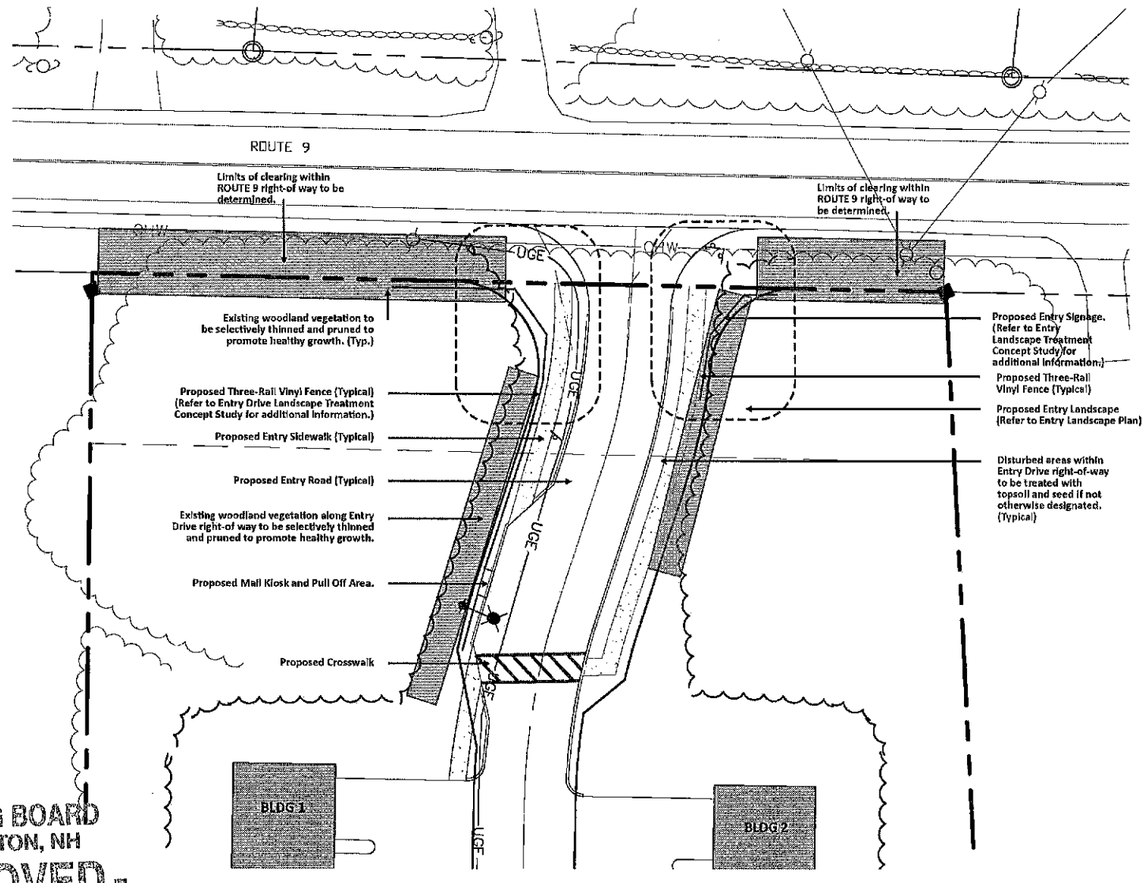
KEY	COMMON / BOTANICAL NAME	SIZE AT MATURITY W'	H'	HARDINESS	DESCRIPTION
STREET TREE					
S1	Acer rubrum / Red Maple	45'	25'	Z3	2" caliper (min.), 12' – 16' ht., b&b, Stake and guy
S2	Acer saccharum / Red Maple	75'	50'	Z2	2" caliper (min.), 12' – 16' ht., b&b, Stake and guy
S3	Quercus rubra / Red Oak	75'	60'	Z3	1.5" – 2" caliper (min.), 12' – 16' ht., b&b, Stake and guy
S4	Tilia cordata / American Linden	50'	35'	Z3	2" caliper (min.), 12' – 16' ht., b&b, Stake and guy
SCREENING - DECIDUOUS SHRUBS					
D1	Aronia arbutifolia 'brilliantissima' / Aronia Chokeberry	6'	10'	Z3	3' – 4' ht., #3 container (min.), plant 5' o.c. (typ.)
D2	Euonymus alatus 'Rudy Haag' / Dwarf Burning Bush	5'	6'	Z4	18" – 24" ht. (min.), b&b, plant 6' o.c. (min.)
D3	Forsythia 'Gold Tide' ('Courasol') / Gold Tide Forsythia	3'	5'	Z5	#3 container, plant 5' o.c. (min.)
D4	Viburnum dentatum 'Christom' / Blue Muffin Arrowwood Viburnum	8'	8'	Z3	18" – 24" ht. (min.), b&b, plant 8' o.c. (min.)
SCREENING - EVERGREEN TREES OR SHRUBS					
E1	Picea pungens glauca / Colorado Blue Spruce	60'	20'	Z3	5' – 6' ht., b&b, plant 10' o.c. (min.), Stake and guy
E2	Pinus strobus / White Pine	100'	50'	Z2	5' – 6' ht., b&b, plant 8' o.c. (min.), Stake and guy
E3	Rhododendron maximum 'Roseum' / Pink Rosebay Rhododendron	6'	6'	Z3	#5 container, plant 5' o.c. (min.)
E4	Thuja occidentalis 'Smaragd' / Emerald Green Arborvitae	4'	18'	Z4	5' – 6' ht., b&b, plant 6' o.c. (min.), Stake and guy
E5	Thuja occidentalis 'nigra' / Dark American Arborvitae	12'	25'	Z3	5' – 6' ht., b&b, plant 10' o.c. (min.), Stake and guy
GRASSES - PERENNIAL					
GP	Carex morrowii 'Ice Dance' / Sedge	12"	12"	Z5	Plugs, plant 18" o.c. (typ.)

PLANNING BOARD
BARRINGTON, NH
APPROVED
File Number 238-36-V-20-SP
Date 6/29/2023
Chairman

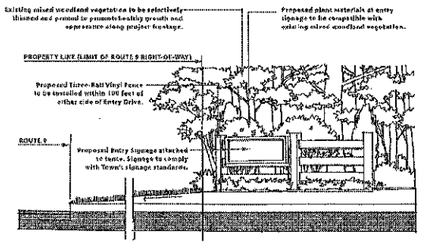
APPROVAL BLOCK

APPROVED TOWN OF BARRINGTON PLANNING BOARD

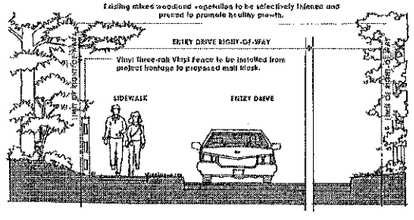
CHAIRPERSON DATE



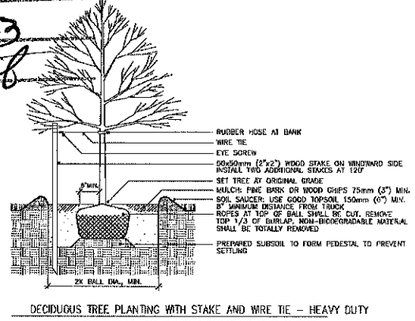
ENTRY DRIVE LANDSCAPE PLAN
Scale: 1" = 20' - 0"



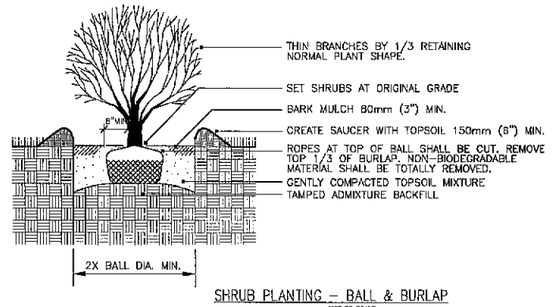
ENTRY FRONTAGE LANDSCAPE TREATMENT CONCEPT STUDY
n.t.s.



ENTRY DRIVE LANDSCAPE TREATMENT CONCEPT STUDY
n.t.s.



DECIDUOUS TREE PLANTING WITH STAKE AND WIRE TIE – HEAVY DUTY
NOTE: STAKING TO BE USED IN PARKING ISLANDS AND OTHER CONFINED AREAS AS NECESSARY TO AVOID CONFLICTS WITH PEDESTRIANS



SHRUB PLANTING – BALL & BURLAP
NOT TO SCALE

PREPARED FOR:

J&L TERRA HOLDINGS, INC.
79 EXETER ROAD
N. HAMPTON, N.H. 03862

BEALS · ASSOCIATES PLLC
70 PORTSMOUTH AVE, STRATHAM, N.H. 03885
PHONE: 603-583-4860, FAX. 603-583-4863

PREPARED BY:

Scott N. Collard, MLLA

SCOTT N COLLARD LANDSCAPE ARCHITECTURE LLC
P O Box 356
Parsonsfield, Maine 04047

scott@sncdesignpresence.com
(207) 756 - 5636

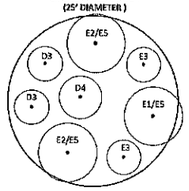
REVISIONS:	DATE:

ENTRY DRIVE LANDSCAPE PLAN

PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

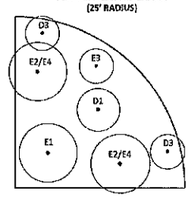
DATE: DECEMBER 2020		SCALE:	1"=20'
PROJ. NO:	NH-1263	SHT. NO.	7B OF 15

CIRCULAR BED LAYOUT
(25' DIAMETER)



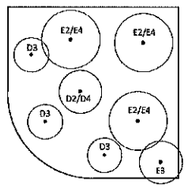
CLUSTER PLANTING PLAN - OPTION A
scale: 1" = 10'

ARC- CIRCULAR BED LAYOUT
(25' RADIUS)



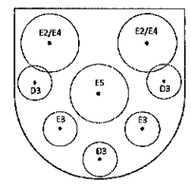
CLUSTER PLANTING PLAN - OPTION B
scale: 1" = 10'

QUARTER-ROUND LAYOUT
(12.5' RADIUS)



CLUSTER PLANTING PLAN - OPTION C
scale: 1" = 10'

HALF-ROUND LAYOUT
(12.5' RADIUS)



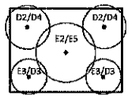
CLUSTER PLANTING PLAN - OPTION D
scale: 1" = 10'

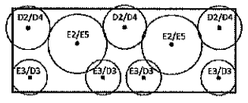
PLANTING AREA DETAILS
(Scale as shown)

SINGLE BED LAYOUT
(16' wide x 12' deep typical)

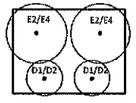
DOUBLE BED LAYOUT
(32' wide x 12' deep typical)

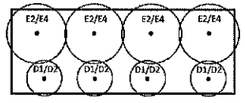
SCREEN PLANTING PLAN - OPTION A
scale: 1" = 10'



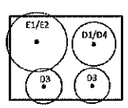


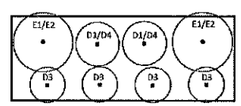
SCREEN PLANTING PLAN - OPTION B
scale: 1" = 10'





SCREEN PLANTING PLAN - OPTION C
scale: 1" = 10'





SCREEN PLANTING PLAN - OPTION D
scale: 1" = 10'

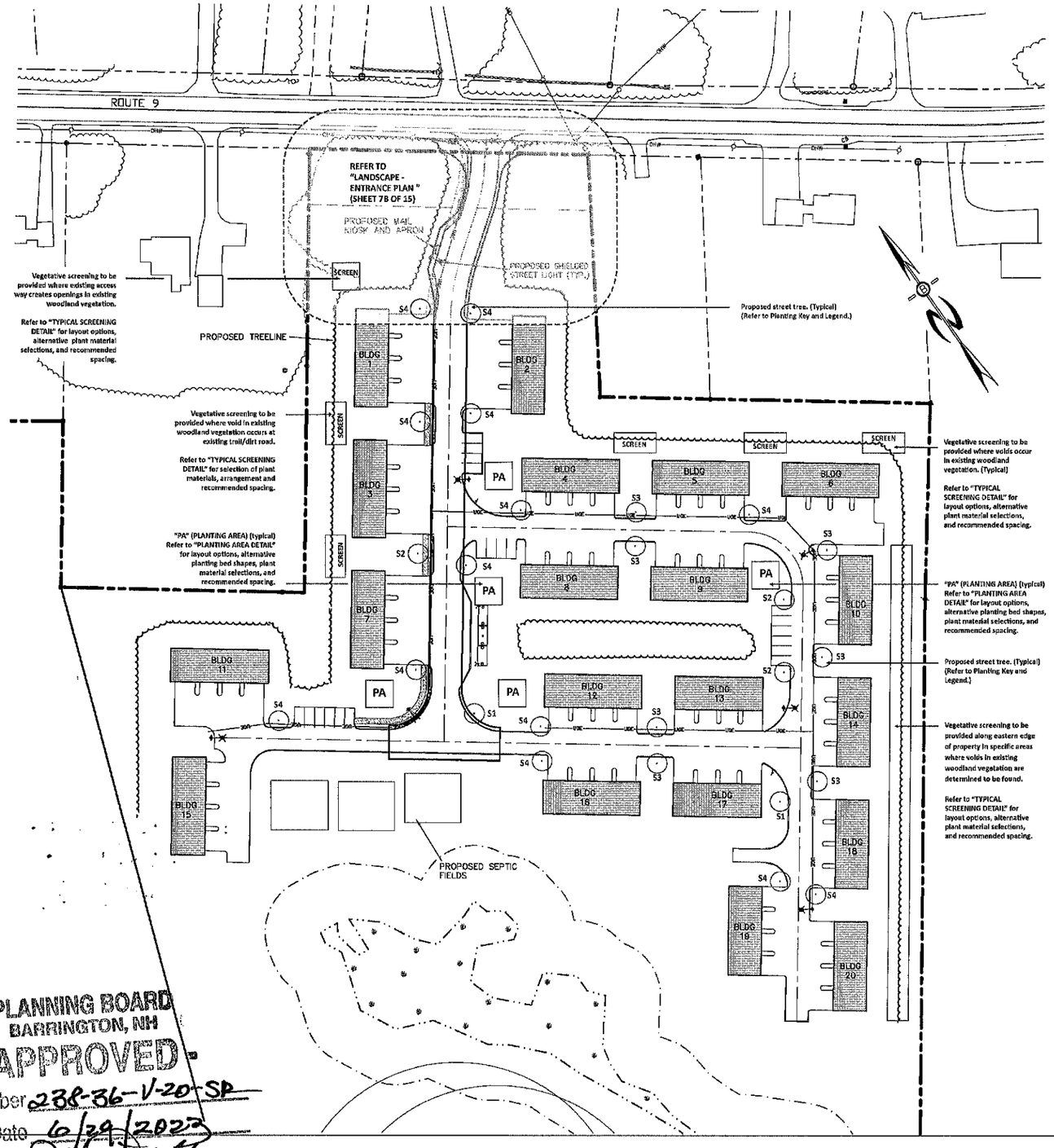
TYPICAL SCREENING DETAILS
(Scale as shown)

APPROVAL BLOCK

APPROVED TOWN OF BARRINGTON PLANNING BOARD

CHAIRPERSON _____ DATE _____

PLANNING BOARD
BARRINGTON, NH
- APPROVED -
File Number 238-36-V-20-SP
Date 6/29/2023
Chairman



PREPARED FOR:

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P O Box 356
Parsonsfield, Maine 04047
scott@sncdesignpresence.com
(207) 756 - 5636

GENERAL PLANTING NOTES

1. The Contractor shall confirm the location of all underground utilities prior to installation of plant materials.

2. Planting methods and overall care and maintenance of all planting stock shall meet the standards contained in The ANSI (American National Standards Institute) A300 (part 6) - 2012.

3. All plant materials grown in containers shall be removed from containers before planting.

4. All balled and burlapped ("b&b") plant materials shall have the burlap (and twine or rope or metal enclosure) opened and removed in the planting hole prior to being backfilled.

5. All trees shall be staked and guyed per the "DECIDUOUS TREE PLANTING WITH STAKE AND WIRE TIE - HEAVY DUTY" planting detail. Stakes and guys shall remain in place and be maintained for the duration of the first year after planting.

6. All disturbed areas shall be treated with 3" topsoil and seed unless otherwise indicated.

7. Finished grade of all lawn areas shall be one (1) inch below adjacent curb or pavement.

8. The surface area of all planting beds shall be treated with three (3) inch depths (min.) of bark mulch.

9. All plant materias are selected for hardiness to the temperature zone of the proposed project.

10. All improvements shown on this site plan shall be constructed and maintained in accordance with the Plan by the Property Owners and all future property owners. No changes shall be made to the Site Plan without the expressed approval of the Barrington NH Planning Board.

11. The Property Owner and all future property owners shall be responsible for the maintenance, repair and replacement of all required screening and landscape materials.

12. All Plant materials shall be tended and maintained in a healthy growing condition, replaced when necessary, and kept free of refuse and debris.

13. The Property Owner shall be responsible to remove and replace dead or diseased plant materials immediately with the same type, size and quantity of plan materials as originally installed, unless alternative plantings are requested, justified and approved by the Planning Board or Town Planner.

REVISIONS:	DATE:

LANDSCAPE PLAN

PLAN FOR:
RESIDENTIAL DEVELOPMENT
ROUTE 9
BARRINGTON, NH

DATE: DECEMBER 2020		SCALE:	1"=50'
PROJ. NO:	NH-1263	SHT. NO.	7A OF 15