

TOWNOFMILFORD, NH OFFICEOFCOMMUNITYDEVELOPMENT

1 UNION SQUARE, MILFORD, NH 03055

TEL: (603)249-0620

WEB: WWW.MILFORD.NH.GOV

Date: March 10, 2020
To: Planning Board

From: Kellie Shamel, Town Planner

Subject: Frederick & Celia Lorden Trust (owner) and Ponemah Hills, LLC (applicant) - Review for

acceptance and consideration of final approval for a major site plan to construct a 6,447 square foot, 9-unit multifamily residential building with a nine stall carport along with associated site improvements.

The parcel is located at 0 Ponemah Hill Road in the Residence B District. Tax Map 43, Lot 61.

BACKGROUND/PROPOSAL:

The applicant is before the Board seeking approval of a site plan to construct a 6,447 square foot, 9-unit multifamily residential building with a nine stall carport, along with associated site improvements including service from municipal water and sewer. The property totals approximately 1.94 acres with 249 linear feet of frontage on Ponemah Hill Road. The property is currently undeveloped and lies within the Residential B zoning district.

The applicant was last before the Board on February 19th and a site walk was held on March 3rd. Revised plans have been submitted to address Board and Staff comments.

APPLICATION STATUS:

The application was accepted as complete on February 19, 2020.

NOTICES:

Notices were sent to all property abutters on February 6, 2020.

WAIVERS:

No waivers have been requested.

ZONING:

The parcel is within the Residence B District. The intent of the Residence B District is to provide areas for increased residential density and other uses which are compatible with these residential densities.

The allowable density for a multi-family use in the Residential 'B' Zoning District is determined by Section 5.03.4.A which states that multi-family dwellings shall be served by both municipal sewerage and water systems and may have a maximum of five (5) units per acre. The total maximum allowable for the property pursuant to Section 5.03.4.A is 9 units (5 units x 1.91 acres).

TRAFFIC AND ACCESS MANAGEMENT:

Vehicular egress and access to the property will be from a single curb cut off of Ponemah Hill Road. Designated parking areas have been provided internally on site. The applicant has revised the plan to include a 16 foot wide access on the southeast portion of the site for emergency vehicles.

Section 7.03 Sidewalks of the Development Regulations states that the Planning Board may require sidewalks for pedestrian traffic to provide a connection between the main entrances of business, housing or industrial establishments, parking areas and along public roadways. The Planning Board may also require sidewalks from the road to the main building entrance or along the road frontage if there is a reasonable expectation pedestrian patrons, residents, neighbors, children, shoppers or employees would be traveling to or from the site.

PARKING:

The proposed parking on site meets and exceeds the minimum requirements set forth in Section 6.05.4 Table of off Street Parking which requires two (2) spaces per unit: 9 units \mathbf{x} 2 = 18 spaces required. The plan shows a proposed 20 spaces plus 9 carport spots.

The Board may consider discussing with the applicant the possibility of reducing the amount of parking spaces given the amount of impervious surface onsite.

OPEN SPACE/LANDSCAPING:

As per Section 5.03.7 of the Zoning Ordinance, open space shall be provided for all uses, other than single-family and two-family dwellings in an amount equal not less than thirty (30) percent of the total lot area.

The property exceeds the minimum open space requirements (58,364 square feet / 1.340 acres) or 70% of the total parcel area.

The applicant has revised the landscape plan to include additional plantings along the frontage of Ponemah Hill Road in compliance with Section 6.08.7A.2. Additional plantings (arborvitae) have been added to the eastern buffer area as discussed at the last Planning Board meeting.

Staff would recommend installing additional vegetation buffer in areas where there may be gaps.

DRAINAGE/STORMWATER MANAGEMENT

The applicant has reduced the entrance roadway to 22 feet per staff recommendation to decrease the amount of impervious surface on site. Additionally, the applicant has revised the stormwater management area to account for the additional 16 foot wide access and other changes on site. These drainage changes are under review by KV Partners.

Subject to resolution of any additional comments from the engineering consultant, the stormwater system design adequately mitigates the increase in runoff rate and volume caused by the proposed development as required by the Town's Regulations.

BUILDING ELEVATIONS

The applicant has provided the proposed building elevations for review and consideration by the Board (see attached). The proposed elevations provide the appropriate scale, massing and from when compared to the surrounding properties and buildings.

INTERDEPARTMENTAL REVIEWS:

Ambulance: No comments.

Assessing: No comments.

Building Department: No comments

Code Enforcement/ Health: No comments.

Conservation Commission: Comments due by 3/13/2020.

Fire Department: See attached e-mail. **Heritage Commission**: No comments.

Police Department: No comments.

Public Works: No comments.

Water/Sewer Utilities: No comments.

Drainage/Stormwater: Comments due 3/16/20.

Community Development / Planning:

- 1. Site Plan, Notes. Add a note stating sewer and driveway permits shall be obtained for this project. Addressed.
- 2. General Comment. Staff would recommend the applicant consider ways to decrease the amount of impervious surface onsite

such as reducing the number of parking spaces/carport spaces provided and/or reducing the width of the entrance roadway to 22 feet. *Addressed*.

- 3. General Comment. Please confirm the sight distance is adequate. There is concern about sight distance to the west while exiting the site given the curving of the road. *Addressed*.
- 4. Landscape Plan. Staff would recommend additional tree plantings along the frontage of Ponemah Hill Road in compliance with Section 6.08.7.A.2 requiring one tree per each 30 feet of landscaped strip along the access way (unless it can be shown that existing trees meet these requirements). *Addressed*.
- 5. Landscape Plan. Staff would recommend additional landscaping within the site in compliance with Section 6.08.6 requiring a minimum of 1 shrub for every 5 feet of building frontage and additional landscaping within the site that is compliant with Section 6.08.7.

STAFF RECOMMENDATIONS:

The applicant should be prepared to address the comments raised by the Planning Board, Conservation Commission, Town Consultants, Staff, and public pertaining to the Site Plan. If the Board is satisfied with the information and responses from the applicant and finds the remaining concerns can be addressed with staff, staff would recommend a conditional approval.



Ponemah Pines SIte Plan

Milford, NH



1 inch = 138 Feet



February 13, 2020



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

March 15, 2020

Kellie Shamel, Town Planner Town of Milford 1 Union Square Milford, NH 03055

Re: Ponemah Pines Site Plan, Ponemah Hill Road (Map 43, Lot 61)

Drainage Review

Dear Ms. Shamel:

We reviewed the revised 9-sheet plan set dated March 9, 2020 and Stormwater Management Report dated March 9, 2020 both prepared by Fieldstone Land Consultants in accordance with our agreement with the Town. Based on that review, we find that all of our previous comments have been addressed and the project drainage design is acceptable from an engineering perspective.

If you have any questions or need any additional information, please feel free to contact me at 603-413-6650 or on my cell phone at 603-731-1562 or by email at MVignale@kvpllc.com.

Sincerely,

KV Partners LLC

Michael S. Vignale, P.E.

Principal Engineer

Town of Milford CONSERVATION COMMISSION

Town Hall
1 Union Square
Milford, NH 03055-4240
(603) 249-0628
Fax (603) 673-2273
www.milford.nh.gov
conservation@milford.nh.gov



MEMORANDUM

March 13, 2020

To: Milford Planning Board

Re: Interdepartmental Review Map 43 Lot 61 Ponemah Pines LLC Site Development Plans 19 Ponemah Hill Rd

To the Board,

The Conservation Commission reviewed the March 2020 revised plan at their March 12, 2020 meeting. The MCC has some follow up comments.

- The Commission members were told that the applicant proposes to use arbor vitae for their buffer plantings. These plantings could be supplemented with columnar junipers which provide winter food for birds and other wildlife. These plants are also quite hardy in challenging soils.
- 2. It is unclear what the surface material will be for the proposed emergency vehicle access on the north side of the building. Would the applicant consider using geogrid with grass or other hardy groundcover planting? This will promote water infiltration and a more attractive aspect for the homeowners for an access that, hopefully, will be rarely utilized by emergency services.

The Commission appreciates the opportunity to review this application. We look forward to seeing a well-designed project that improves the natural resource functionality of the site.

Very Respectfully,

Chris Costantino
Milford Conservation Commission

From: <u>Jason Smedick</u>
To: <u>Kellie Shamel</u>

Subject: RE: Planning Dept. IDR - Ponemah Hill Site Plan

Date: Wednesday, March 11, 2020 9:34:38 AM

Good morning Kellie,

After review of the redesigned site plan, our office can offer Fire Department approval.

Should you have any further questions, please do not hesitate to contact me.

Thank you.

Captain Jason A Smedick
Milford Fire Department
Bureau of Fire Prevention & Investigation
Deputy Health Officer
39 School Street
Milford NH 03055
603-249-0680

From: Jason Smedick

Sent: Friday, February 21, 2020 4:06 PM

To: Kellie Shamel

Subject: RE: Planning Dept. IDR - Ponemah Hill Site Plan

Hey Kellie,

I met with Chad yesterday and there are revisions coming back to the board.

Relative to the boards questions, The requirements are from Saf-C 6000 the NH State Fire Code, NFPA 1 Uniform Fire Code 2015 Edition, Chapter 18, Fire Department Access and Water Supply.

We have 7 or more apartment building with either 360 degree access or access on 2 to 3 sides. This is done for rescue from porches.

The access road width is required by NFPA 1 Uniform Fire Code, Chapter 18, Section 18.2.3.4.1.1. As for the grass paver system we allow and of the ones out in the industry. We offer that to help with green space and storm water requirements. Currently St. Joes urgent care id the only place we have this in place.

I hope this helps.

Let me know if you need anything else.

J

Captain Jason A Smedick
Milford Fire Department
Bureau of Fire Prevention & Investigation
Deputy Health Officer
39 School Street
Milford NH 03055
603-249-0680

SITE DEVELOPMENT PLANS

PONEMAH PINES

- TAX MAP 43, LOT 61 PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE
JANUARY 20, 2020
LAST REVISED: MARCH 9, 2020



SCALE: 1"=100'

PREPARED FOR: PONEMAH PINES, LLC

476 ROUTE 13 SOUTH, MILFORD NH 03055

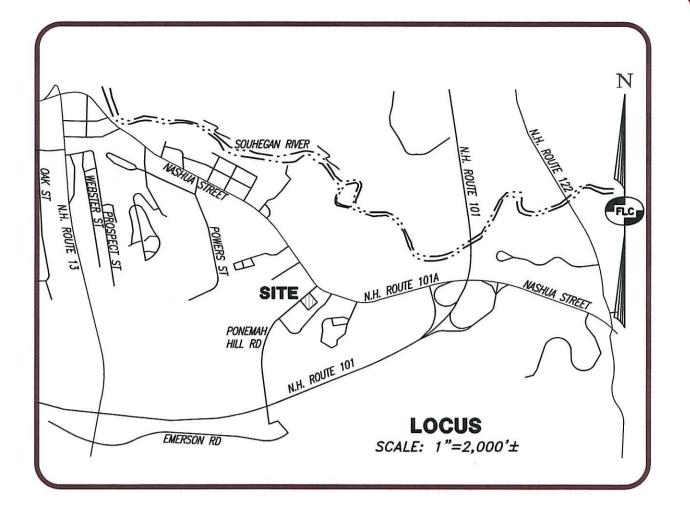
LAND OF:

FREDERICK & CELIA LORDEN TRUST

19 PONEMAH HILL ROAD, MILFORD NH 03055



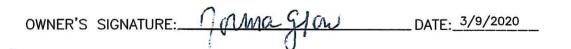




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2	EX-1	EXISTING CONDITIONS PLAN				
2 3	SP-1	SITE PLAN				
4	GR-1	GRADING AND UTILITY PLAN				
5	LT-1	LIGHTING AND LANDSCAPING PLAN				
6	DT-1	CONSTRUCTION DETAILS				
7	DT-2	CONSTRUCTION DETAILS				
8	DT-3	EROSION CONTROL DETAILS				

REFERENCE PLAN:

"PONEMAH HILL CONDOMINIUM — PONEMAH HILL ROAD, MILFORD, N.H. — PREPARED FOR — PONEMAH HILL CONDOMINIUM — C/O ROBERT MOULON — 9 PONEMAH HILL ROAD — MILFORD, N.H. 03055", SCALE: 1"=40', DATED SEPTEMBER 3, 1998 & REVISED THROUGH AUGUST 23, 2004 BY AUSTIN PARKHURST & RECORDED AS PLAN #35894 IN THE H.C.R.D.



APPROVED

MILFORD, NH PLANNING BOARD SUBDIVISION #:______
DATE APPROVED:______
SIGNED:_____

				S. Hilliand C. High Col.					
Α	3/9/20	RI	EVISION PE	R STAFF C	OMMENTS			CLR	NRC
REV.	DATE		DESCRIPTION			C/0	DR	CK	
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THE LOCATION OF THE UTILITIES SHOWN ARE APPROXIMATE.
 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE
 AND PRESERVE ALL UTILITY SERVICES.

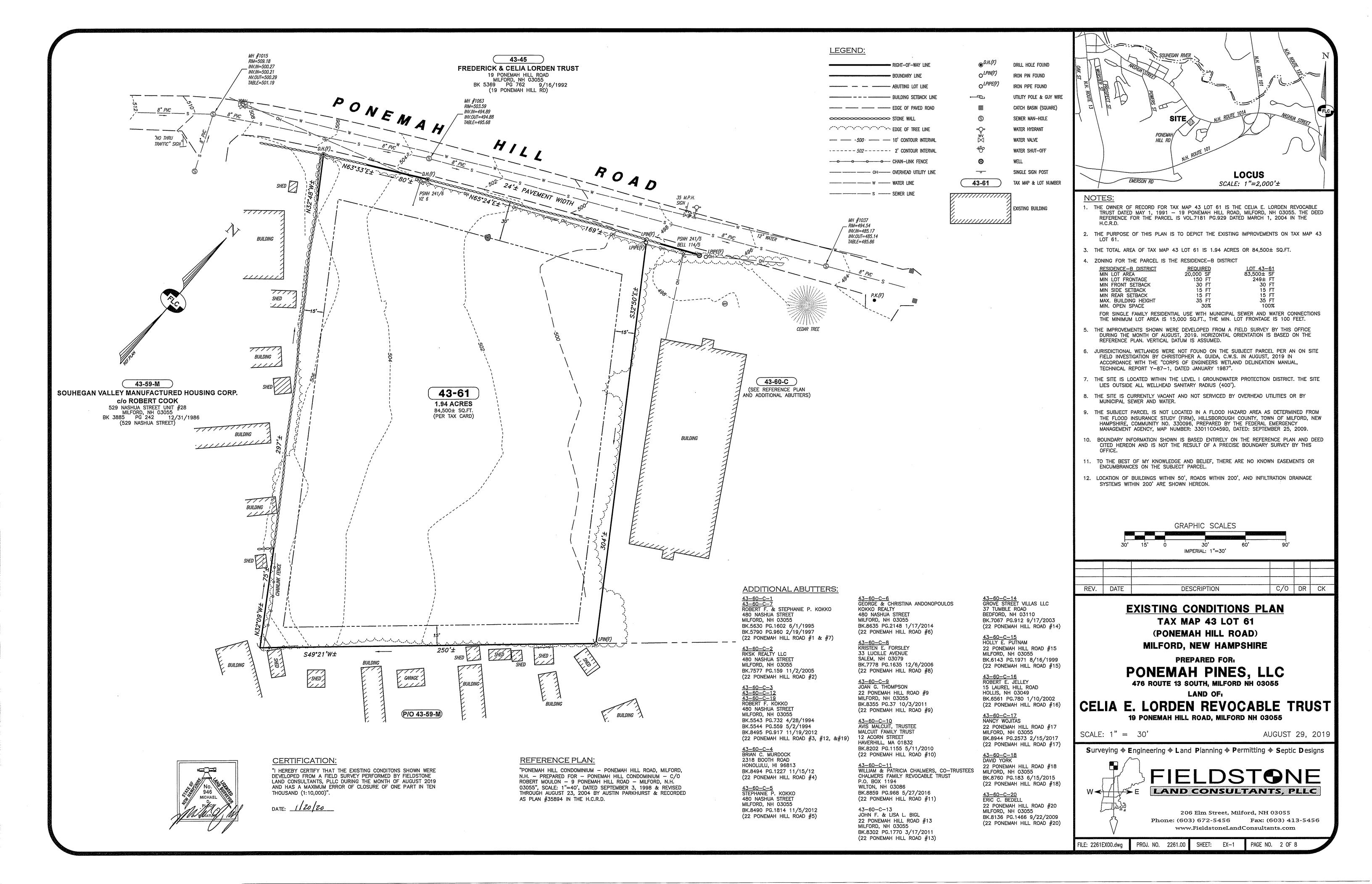
 THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING WITH ALL JURISDICTIONAL AGENCIES AND UTILITY COMPANIES PRIOR TO AND DURING CONSTRUCTION.

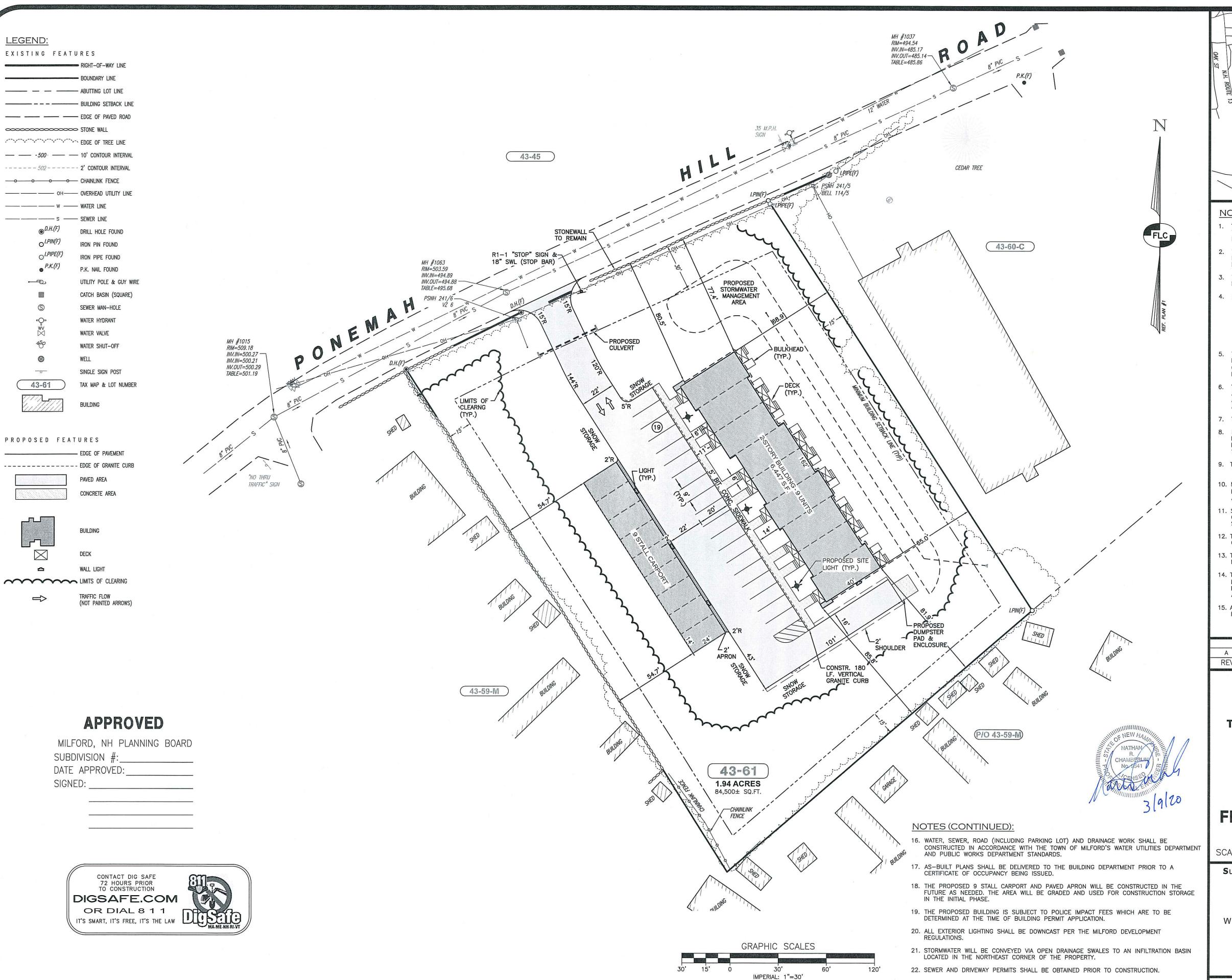
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND PROPOSED WORK PRIOR TO CONSTRUCTION.

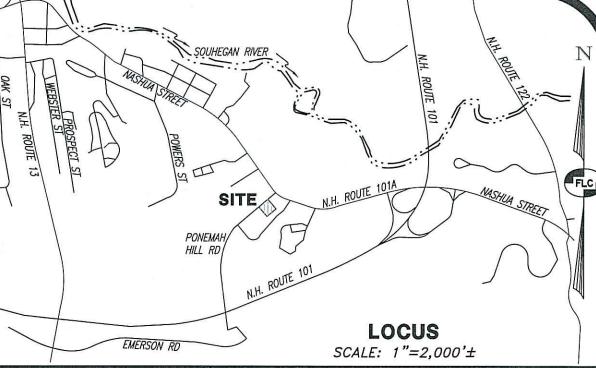
CONTACT DIG SAFE 72 HOURS
PRIOR TO CONSTRUCTION

DIGSAFE.COM

OR DIAL 8HKNOW WHAT'S BELOW







NOTES:

- THE OWNER OF RECORD FOR TAX MAP 43 LOT 61 IS THE FREDERICK & CELIA LORDEN TRUST — 19 PONEMAH HILL ROAD, MILFORD, NH 03055. THE DEED REFERENCE FOR THE PARCEL IS VOL.5369 PG.762 DATED SEPTEMBER 16, 1992 IN THE H.C.R.D.
- . THE PURPOSE OF THIS PLAN IS TO DEPICT A PROPOSED 9-UNIT, MUILTI-FAMILY, 2-STORY BUILDING AND A 9 STALL CARPORT WITH ASSOCIATED SITE IMPROVEMENTS ON TAX MAP PARCEL 43-61 AS SHOWN.
- 3. THE TOTAL AREA OF TAX MAP PARCEL 43-61 IS 1.94 ACRES OR 84,500± S.F., WITH 249± FEET OF FRONTAGE ON PONEMAH HILL ROAD.
- 4. ZONING FOR THE ENTIRE PARCEL IS RESIDENTIAL—B DISTRICT: MINIMUM LOT SIZE: 20,000 S.F. MINIMUM LOT FRONTAGE: 150 FT. MINIMUM BUILDING FRONT SETBACK: 30 FT.
- MINIMUM BUILDING FRONT SETBACK: 30 FT.
 MINIMUM BUILDING SIDE SETBACK: 15 FT.
 MINIMUM BUILDING REAR SETBACK: 15 FT.
 MAXIMUM BUILDING HEIGHT: 35 FT.
 MINIMUM OPEN SPACE: 30%
- 5. THE SURFACE FEATURES AND BOUNDARY INFORMATION SHOWN WERE DEVELOPED FROM THE REFERENCE PLANS CITED AND A PRECISE FIELD SURVEY BY THIS OFFICE DURING THE MONTH OF AUGUST 2019. HORIZONTAL ORIENTATION IS BASED ON REFERENCE PLAN #1. VERTICAL DATUM IS ASSUMED.
- THE UNDERGROUND UTILITIES SHOWN HAVE BEEN COMPILED IN PART FROM PLANS OF RECORD AND FIELD LOCATION. THE LOCATION OF UNDERGROUND UTILITIES SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITIES.
- 7. THERE ARE NO JURISDICTIONAL WETLANDS ON-SITE PER FIELD INVESTIGATION BY THIS OFFICE.
- . PARKING CALCULATION:
- MULTI-FAMILY USE: 2 SPACES PER DWELLING UNIT.
 PROPOSED BUILDING CONSISTS OF 9 DWELLING UNITS: 9 UNITS X 2 SPACES = 18 SPACES.
 19 SPACES ARE PROVIDED ALONG WITH A 9 STALL CARPORT BUILDING.
- 9. THERE IS NO PROPOSED PROJECT SIGNAGE AT THIS TIME, FUTURE SIGNAGE WILL REQUIRE PERMITTING PRIOR TO INSTALLATION.
- 10. MINIMUM "OPEN SPACE" AREA: 30% OF LOT AREA REQUIRED OR 25,054 S.F. THIS STE PLAN PROVIDES 62,000± S.F. (1.42± ACRES) OR 73% OF THE TOTAL PARCEL AREA OF 1.91 ACRES.
- 11. SOIL TYPE FOR THE PROPERTY IS HsB HINCKLEY LOAMY SAND, 3 TO 8% SLOPES AND CmC CANTON FINE SANDY LOAM, 8 TO 15% SLOPES. SOURCE USDA NRCS WEB SOIL SURVEY.
- 12. THE SITE IS LOCATED WITHIN THE LEVEL I GROUNDWATER PROTECTION DISTRICT. THE SITE LIES OUTSIDE ALL WELLHEAD SANITARY RADIUS.
- 13. THE NEW MULTI—FAMILY BUILDING WILL BE SERVICED BY UNDERGROUND ELECTRIC & MUNICIPAL SEWER AND WATER AS SHOWN.
- 14. THE SUBJECT PARCEL IS NOT LOCATED IN A FLOOD HAZARD AREA AS DETERMINED FROM THE FLOOD INSURANCE STUDY (FIRM), HILLSBOROUGH COUNTY, TOWN OF MILFORD, NEW HAMPSHIRE, COMMUNITY NO. 330096, PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, MAP NUMBER: 33011C0459D, DATED: SEPTEMBER 25, 2009.
- 15. ANY STUMPS OR DEBRIS ENCOUNTERED DURING CONSTRUCTION WILL BE GROUND AND USED FOR EROSION CONTROL OR REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

Α	3/9/20	REVISION PER STAFF COMMENTS		CLR	NRC
REV.	DATE	DESCRIPTION	C/0	DR	CK

SITE PLAN

PONEMAH PINES

TAX MAP 43 PARCEL 61 - PONEMAH HILL ROAD
MILFORD, NEW HAMPSHIRE

PREPARED FOR

PONEMAH PINES, LLC
476 ROUTE 13 SOUTH, MILFORD NH 03055

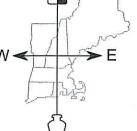
LAND OF

FREDERICK & CELIA LORDEN TRUST 19 PONEMAH HILL ROAD, MILFORD NH 03055

SCALE: 1" = 30'

JANUARY 20, 2020

Surveying + Engineering + Land Planning + Permitting + Septic Designs



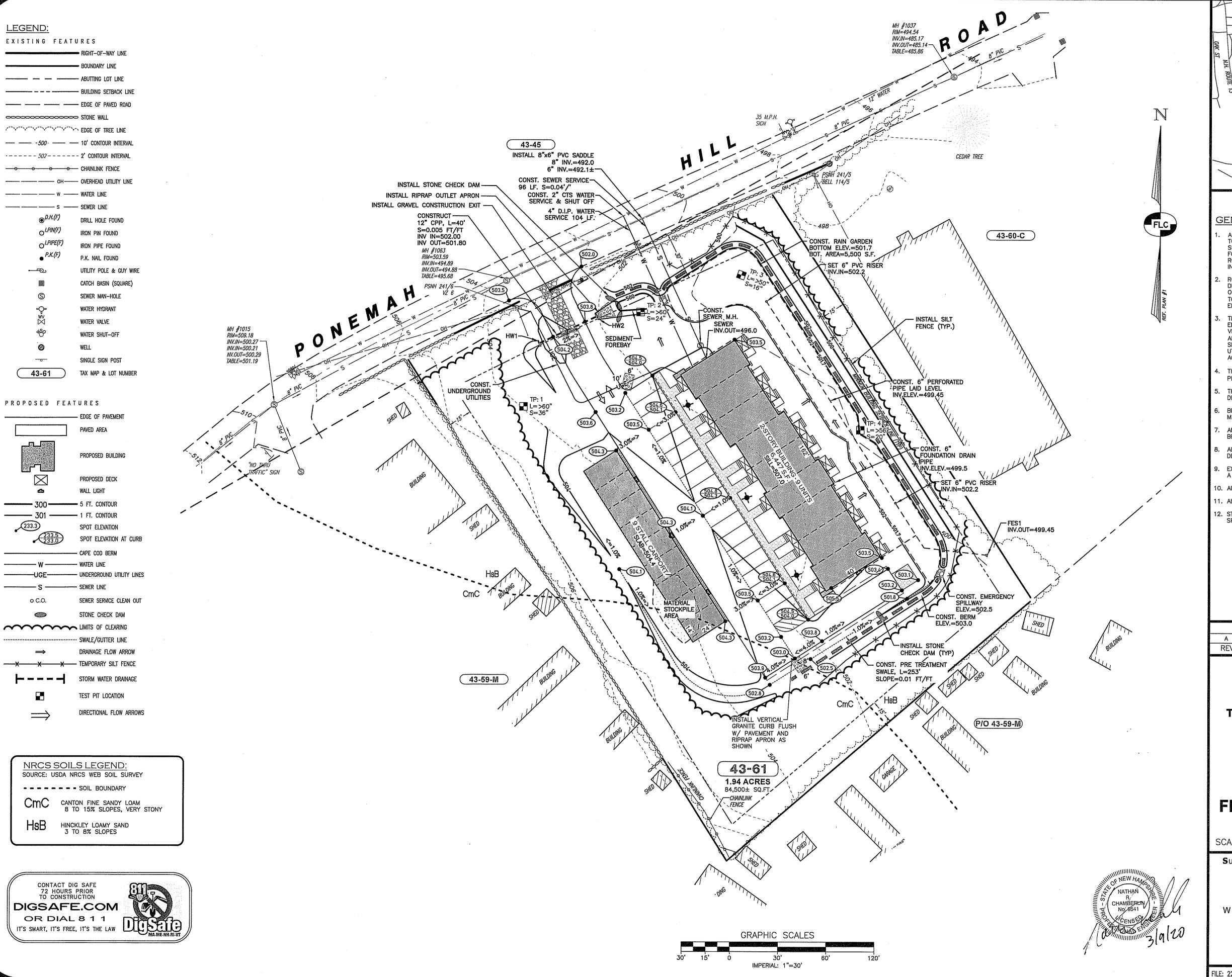
FIELDSTONE LAND CONSULTANTS, PLLC

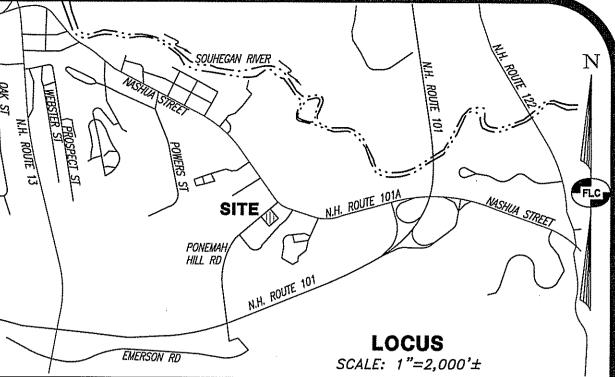
206 Elm Street, Milford, NH 03055

Phone: (603) 672-5456 Fax: (603) 413-5456

www.FieldstoneLandConsultants.com

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GENERAL CONSTRUCTION NOTES:

- ALL WORK SHALL CONFORM TO THE APPLICABLE REGULATIONS AND STANDARDS OF THE TOWN OF MILFORD AND SHALL BE BUILT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE TOWN OF MILFORD DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS FOR ROAD CONSTRUCTION AND SEWERS AND DRAINS AND THE NHDOT STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION APPROVED AND ADOPTED 2010 ARE HEREBY INCORPORATED BY REFERENCE.
- ROAD AND DRAINAGE CONSTRUCTION SHALL CONFORM TO THE TYPICAL SECTIONS AND DETAILS SHOWN ON THE PLANS AND THE SPECIFICATIONS NOTED ABOVE. ANY ALTERATION OF THIS DESIGN OR CHANGE DURING CONSTRUCTION MAY REQUIRE APPROVAL OF VARIOUS TOWN/CITY BOARDS OR AGENCIES AND SHALL BE DISCUSSED WITH THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS AND SHALL VERIFY THAT ALL THE INFORMATION SHOWN HEREON IS CONSISTENT, COMPLETE, ACCURATE, AND CAN BE CONSTRUCTED PRIOR TO AND/OR DURING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES, ERRORS, OMISSIONS, OR EXISTING UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION SO THAT REMEDIAL ACTION MAY BE TAKEN BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACT "DIGSAFE" AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION (811).
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE MUNICIPAL DEPARTMENTS PRIOR TO CONSTRUCTION TO ARRANGE FOR NECESSARY INSPECTIONS.
- BLASTING, IF REQUIRED, SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF MILFORD FIRE DEPARTMENT REGULATIONS.
- ALL DISTURBED NON-PAVED AREAS SHALL BE LOAMED AND SEEDED IMMEDIATELY UPON BEING CONSTRUCTED.
- ALL TRAFFIC SIGNS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.
- EXISTING PAVEMENT SHALL BE SAW-CUT AS NECESSARY. THE CONTRACTOR SHALL ENSURE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW PAVEMENT.
- 10. ALL POWER WORK SHALL CONFORM TO EVERSOURCE STANDARDS.
- 11. ALL TELEPHONE WORK SHALL CONFORM TO FAIRPOINT COMMUNICATIONS SPECIFICATIONS.
- 12. STREET RESTORATION, IF ANY, SHALL BE IN ACCORDANCE WITH TOWN OF MILFORD SPECIFICATIONS.

А	3/9/20	REVISION PER STAFF COMMENTS		CLR	NRC
REV.	DATE	DESCRIPTION	C/O	DR	CK

GRADING &-UTILITY PLAN PONEMAH PINES

TAX MAP 43 PARCEL 61 - PONEMAH HILL ROAD MILFORD, NEW HAMPSHIRE

PREPARED FOR

PONEMAH PINES, LLC 476 ROUTE 13 SOUTH, MILFORD NH 03055

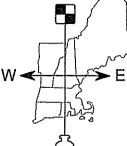
LAND OF

FREDERICK & CELIA LORDEN TRUST 19 PONEMAH HILL ROAD, MILFORD NH 03055

SCALE: 1" = 30'

JANUARY 20, 2020

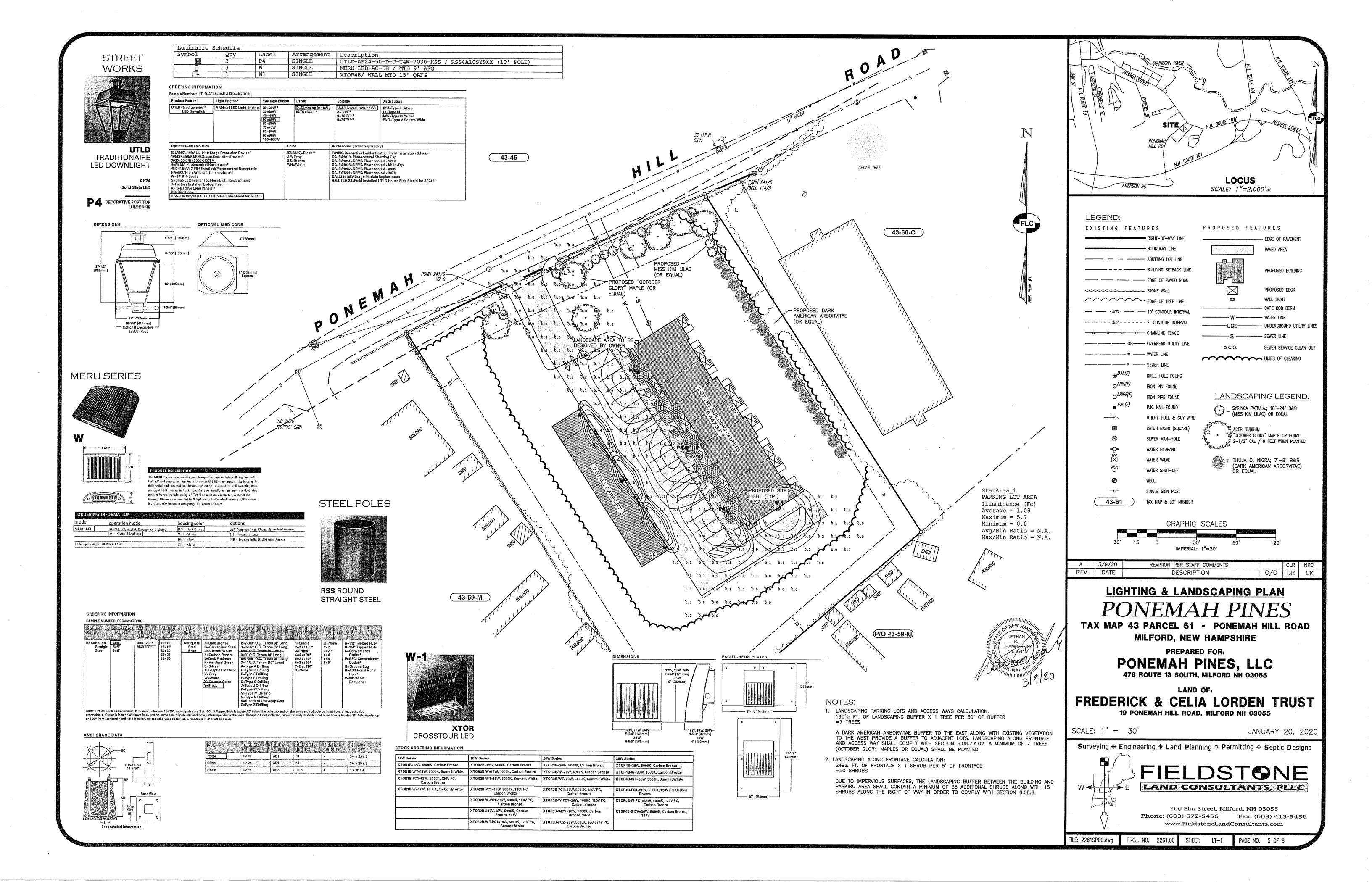
Surveying Φ Engineering Φ Land Planning Φ Permitting Φ Septic Designs



FIELDSTONE LAND CONSULTANTS, PLLC

206 Elm Street, Milford, NH 03055 Phone: (603) 672-5456 Fax: (603) 413-5456 www.FieldstoneLandConsultants.com

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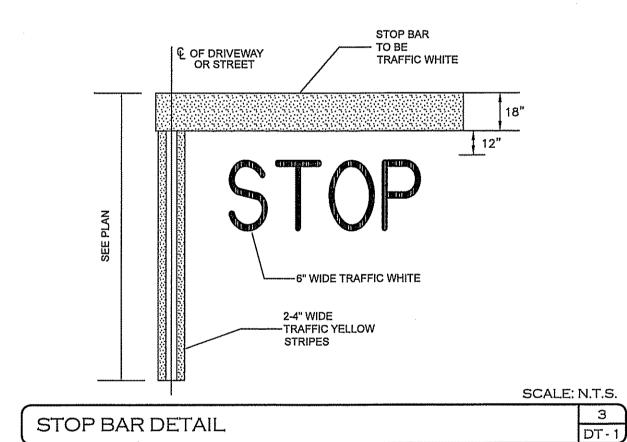


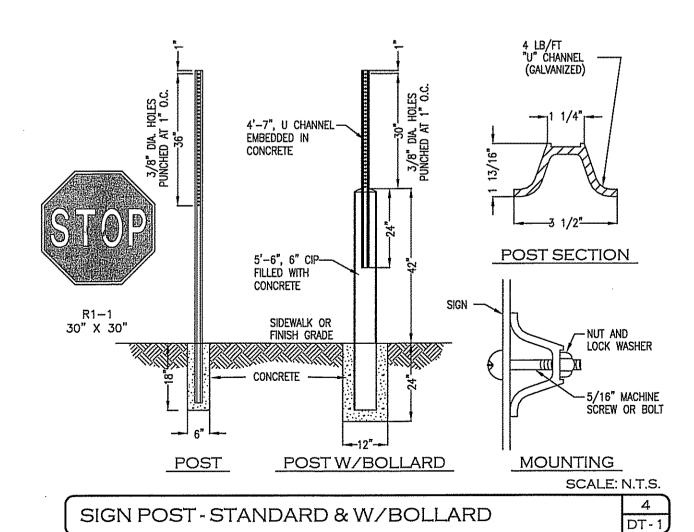
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS AND SHALL VERIFY THAT ALL THE INFORMATION SHOWN HEREON IS CONSISTENT, COMPLETE, ACCURATE, AND CAN BE CONSTRUCTED PRIOR TO AND/OR DURING CONSTRUCTION. FIELDSTONE LAND CONSULTANTS, PLLC, AS THE DESIGN ENGINEER, SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES, ERRORS, OMISSIONS, OR EXISTING UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION SO THAT REMEDIAL ACTION MAY BE TAKEN BEFORE PROCEEDING WITH THE WORK.
- 3. THE CONTRACTOR SHALL CONTACT "DIGSAFE" 72 HOURS PRIOR TO THE START OF CONSTRUCTION (1-800-255-4977 IN NH, 1-888-344-7233 IN MA).
- 4. COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND SPECIAL CONDITIONS OF TOWN/CITY AGENCIES, SUCH AS THE PLANNING BOARD, ZONING BOARD, CONSERVATION COMMISSION, AND OTHERS, IS MANDATORY AND IS THE RESPONSIBILITY OF
- ANY ALTERATION OF THIS DESIGN OR CHANGE DURING CONSTRUCTION MAY REQUIRE APPROVAL OF VARIOUS TOWN/CITY BOARDS OR AGENCIES AND SHALL BE DISCUSSED WITH THE OWNER AND FIELDSTONE LAND CONSULTANTS, PLLC PRIOR TO
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE CITY DEPARTMENTS PRIOR TO CONSTRUCTION TO ARRANGE FOR NECESSARY INSPECTIONS.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCURATE AS-BUILT INFORMATION OF ALL WORK, ESPECIALLY UNDERGROUND CONSTRUCTION OF UTILITY LINES, SERVICES, CONNECTIONS, ETC. AND APPROPRIATE TIES TO ABOVE GROUND PERMANENT STRUCTURES, FIELD SURVEY COORDINATES, OR SOME OTHER METHOD OF ESTABLISHING THE AS-BUILT CONDITION OF ALL CONSTRUCTION.
- 8. THE CONTRACTOR AND OWNER ARE RESPONSIBLE FOR OBSERVING AND MANAGING THE PROJECT PER RSA 430:53 AND AGR 3800 REGARDING INVASIVE SPECIES (PLANTS AND INSECTS). NO INVASIVE SPECIES PLANT OR INSECT SHALL BE INTRODUCED ONTO THE SITE.

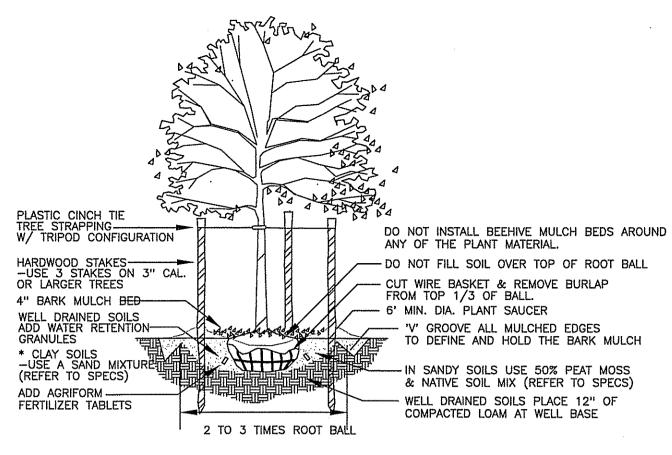
GENERAL CONSTRUCTION NOTES

- 1. CATCH BASINS, PIPE INLETS, DRAINAGE BASINS AND SPILLWAYS SHALL BE INSPECTED AFTER EVERY MAJOR STORM FOR POLLUTANT BUILD-UP. POLLUTANTS CONSIST OF SEDIMENTS, DEBRIS AND/OR FLOATING HYDROCARBONS.
- 2. IN THE ABSENCE OF A MAJOR STORM, THE SYSTEM MUST BE CHECKED AT LEAST TWICE A YEAR, IN THE SPRING AND FALL FOR HYDROCARBON ACCUMULATION.
- 3. IF, UPON INSPECTION, A SIGNIFICANT AMOUNT OF POLLUTANTS HAVE ACCUMULATED IN ANY OF THE CATCH BASINS, THEN THE POLLUTANTS MUST BE REMOVED AND DISPOSED OF PROPERLY.
- 4. A SIGNIFICANT AMOUNT OF POLLUTANTS SHALL BE DEFINED AS A NOTICEABLE SHEEN ON THE WATER SURFACE IN THE SUMPS OF ANY CATCH BASINS AND/OR WHEN SEDIMENTS HAVE ACCUMULATED TO WITHIN 6 INCHES BELOW THE OUTLET OF ANY OF THE CATCH BASINS. WHEN EITHER OF THESE SITUATIONS ARE DISCOVERED UPON THE REQUIRED SEMIANNUAL INSPECTION, THEN THE STEPS STATED ABOVE SHALL BE COMPLETED.
- THE DRAINAGE BASIN EMBANKMENTS SHOULD BE INSPECTED FOR RODENT BURROWS, BARE SPOTS, WET AREAS OR EROSION. ANY DEFICIENCIES SHALL BE CORRECTED TO PREVENT ADDITIONAL DAMAGE.
- PIPE OUTLETS SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. THE CONDITION OF THE PIPES SHOULD BE NOTED AND REPAIRS MADE AS NECESSARY. IF EROSION IS TAKING PLACE THEN MEASURES SHOULD BE TAKEN TO STABILIZE AND PROTECT THE ERODED AREA OF THE OUTLET.



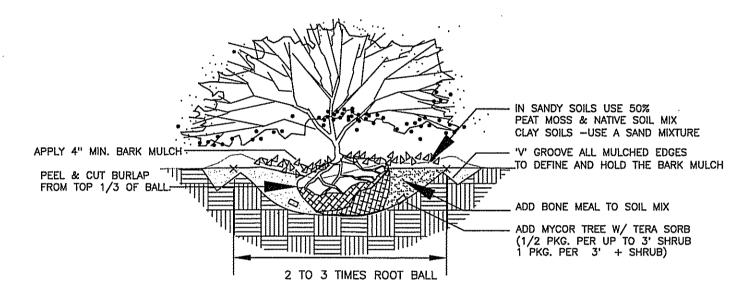


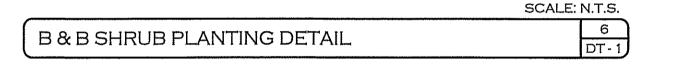


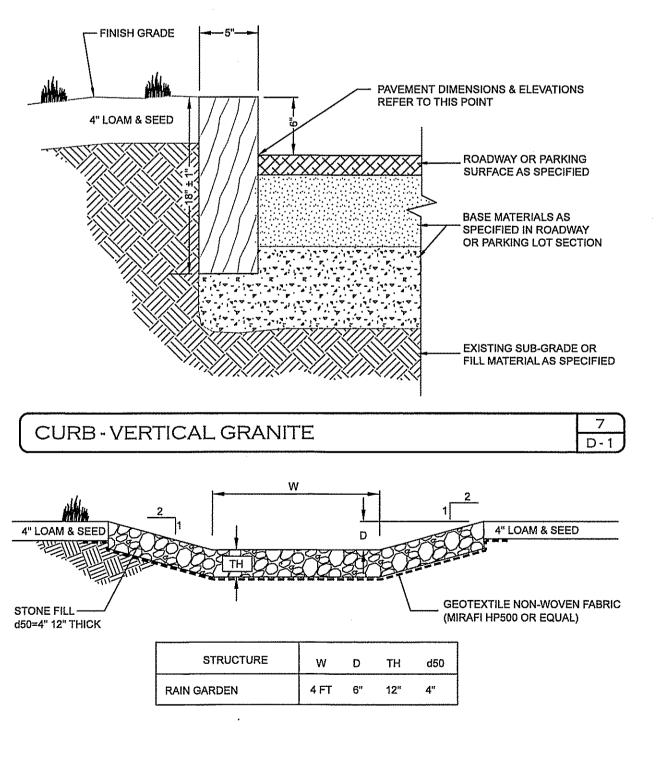


NOTE: ALL PYRAMIDAL EVERGREENS & DECIDUOUS TREES SHALL BE PLANTED W/ ROOTS HORMONE ENHANCER.

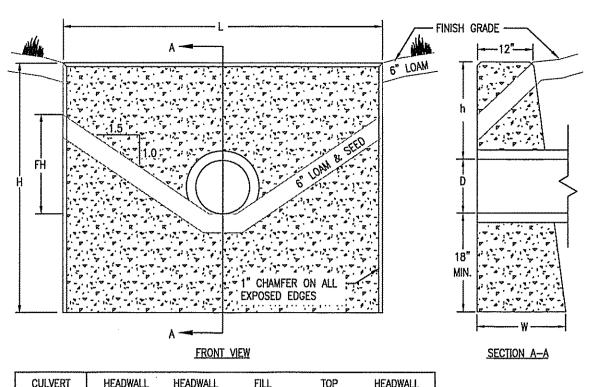
SCALE: N.T.S. DECIDUOUS TREE PLANTING DETAIL DT - 1







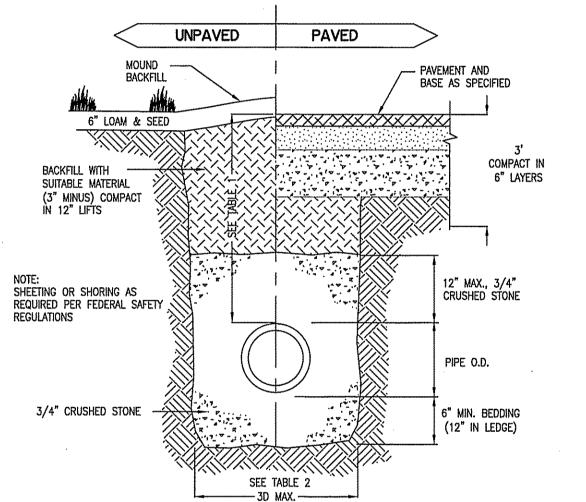
	SCALE: N.T.S.
EMERGENCY SPILLWAY DETAIL	8 DT-1



	·····				
CULVERT	HEADWALL	HEADWALL	FILL	TOP	HEADWALL
DIAM.	LENGTH	HEIGHT	HEIGHT	HEIGHT	воттом
D	L	Н	FH	h	WIDTH W
INCHES		FEE	T & INCHES		
12	4'-3"	3'-9"	1'-1"	1'-3"	1'-11.25"
15	6'-0"	4'-3"	1'7"	1'-6"	2'-0.75"
18	7'-0"	4'-6"	1'-10"	1'-6"	2'-1.50"
24	9'-0"	5'-0"	2'4"	1'-6"	2'-3.00"

HEADWALL SHALL BE STEEL REINFORCED AND CONFORM TO NHDOT STANDARD PLAN HW-2, LAST REVISED JUNE 16, 2010.



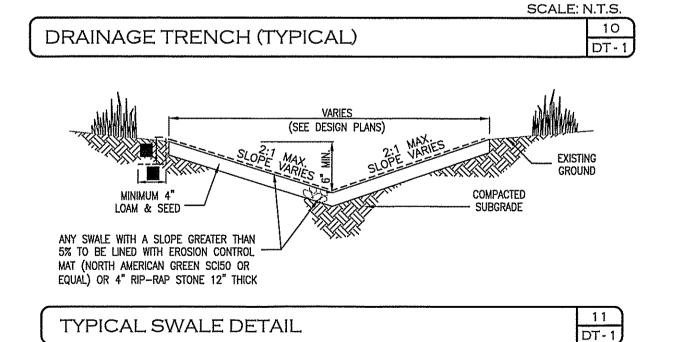


ENDED TRENCH WIDTH)

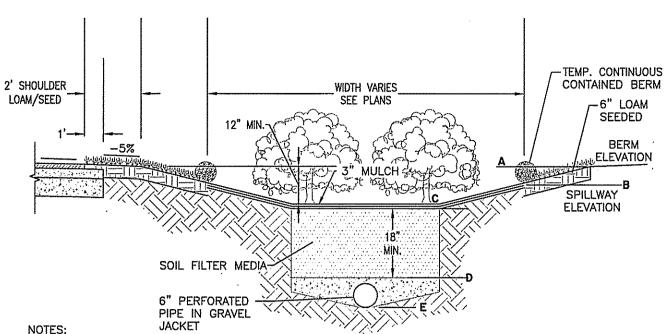
TOTAL WIDTH

I.D. + 24" 2 x I.D.

		•		
TABLE 1 (RECO	MMENDED	COVER)	TABLE 2 (F	RECOMME
LOCATION	PIPE	MINIMUM	INSIDE DI	AMETER
	MATERIAL	COVER	12" TO	24"
PAVED ROADS	ALL	3 FT.	OVER	24"
GRAVEL ROADS DRIVEWAYS	ALL ALL	2 FT. 1 FT.		
UNPAVED AREAS	ALL	2 FT.		







- 1. DO NOT PLACE RAIN GARDEN SYSTEM INTO SERVICE UNTIL THE BMP HAS BEEN PLANTED AND ITS CONTRIBUTING DRAINAGE AREA(S) HAVE BEEN FULLY STABILIZED.
- 2. TO PREVENT DEGRADATION OF INFILTRATION FUNCTION:

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

B. DO NOT COMPACT THE EXCAVATION.

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

FROM UNHSC BIORETENTION SOIL SPECIFICATION FEBRUARY 2017.

2.1 SOIL MEDIA SPECIFIED ACCORDING TO PERFORMANCE REQUIREMENTS: PARTICLE SIZE DISTRIBUTION ACCORDING TO ASTM D422 (STANDARD TEST METHOD FOR PATRICLE-SIZE ANALYSIS OF SOILS).

1. PARTICLE SIZE DISTRIBUTION BY SEPARATES:

200

>200

- a. EXCLUDE ANY MATERIAL >4.76 mm 0% b. VERY COARSE SAND/GRAVEL: GRAVEL (2.0 TO 4.76 mm) 5% MAXIMUM (PERCENT
- BY DRY WEIGHT). c. SAND (0.42 TO 2.0 mm) 60 - 85% (PERCENT BY DRYWEIGHT).
- d. SILT (0.075 TO 0.42 mm) 20% MAXIMUM (PERCENT BY DRYWEIGHT).
- e. CLAY (LESS THAN 0.075 mm) 5% MAXIMUM (PERCENT BY DRYWEIGHT). TABLE 1: ACCEPTABLE PARTICLE SIZE DISTRIBUTION OF FINAL BIORETENTION SOIL MIX.

SIEVE #	SIEVE SIZE (mm)	% PASSING
4	0.187 (4.76)	100
10	0.079 (2)	95
40	0.017 (0.42)	40-15

0.003 (0.075)

PAN

RAIN GARDEN INVERT INFORMATION						
GARDEN #			ELEVATION			
GARDEN #	Α	В	С	D	E.	
RG1	503.00	502.50	501.70	500.20	499.45	

RAIN GARDEN TYPICAL SECTION

		American African State of the Control of the Contro	STATE OF STATE		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Α	3/9/20	REVISION PER STAFF COMMENTS		CLR	NRC
REV.	DATE	DESCRIPTION	C/O	DR	CK

10-20

0-5

CONSTRUCTION DETAILS PONEMAH PINES

TAX MAP 43 PARCEL 61 - PONEMAH HILL ROAD MILFORD, NEW HAMPSHIRE

PREPARED FOR:

PONEMAH PINES, LLC 476 ROUTE 13 SOUTH, MILFORD NH 03055

LAND OF

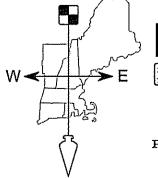
FREDERICK & CELIA LORDEN TRUST 19 PONEMAH HILL ROAD, MILFORD NH 03055

SCALE: NOT TO SCALE

JANUARY 20, 2020

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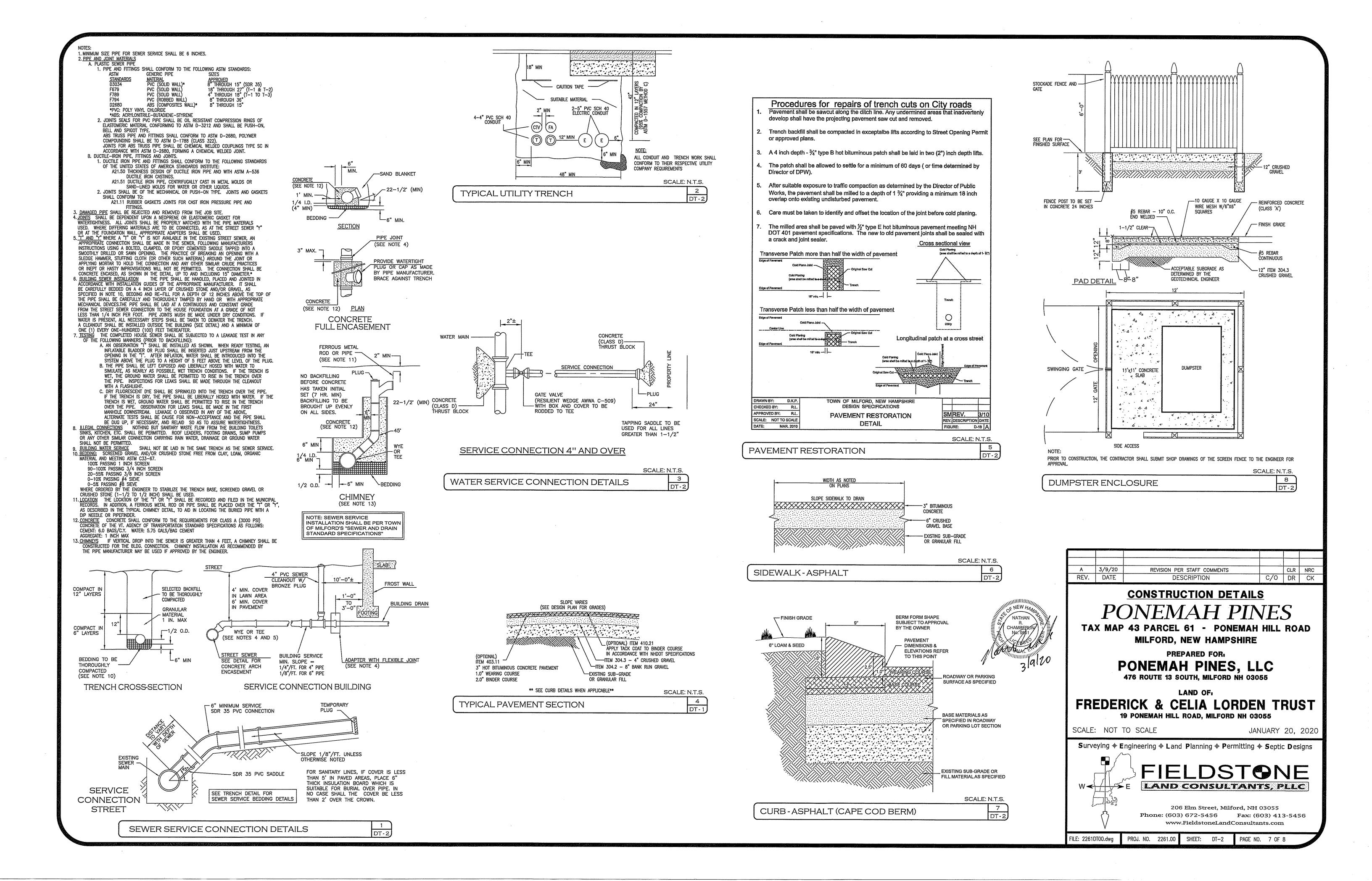
Surveying Φ Engineering Φ Land Planning Φ Permitting Φ Septic Designs



LAND CONSULTANTS, PLLC

206 Elm Street, Milford, NH 03055 Phone: (603) 672-5456 Fax: (603) 413-5456 www.FieldstoneLandConsultants.com

FILE: 2261DT00.dwg PROJ. NO. 2261.00 SHEET: DT-1 PAGE NO. 6 OF 8



- PRIOR TO STARTING ANY WORK ON THE SITE THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES.
- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH STANDARDS AND SPECIFICATIONS THEREOF IN NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICE STORM WATER MANUALS, VOLUME 1-3, LATEST EDITION.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PER PLANS AND DETAILS. PERIMETER CONTROLS SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF EARTH DISTURBING ACTIVITIES.
- 4. INSTALL INLET PROTECTION AROUND ALL STORM DRAIN STRUCTURES. INLET PROTECTION BMP'S SHALL REMAIN UNTIL THE SITE IS STABILIZED. CONSTRUCTION OF DETENTION BASINS AND TREATMENT SWALES SHALL OCCUR PRIOR TO AND EARTH MOVING OPERATION THAT WILL INFLUENCE STORM WATER RUNOFF.
- THE WORK AREA SHALL BE GRADED, SHAPED AND OTHERWISE DRAINED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE
- 6. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEN POSSIBLE.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE KEPT CLEAN DURING CONSTRUCTION. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EVERY 0.25-INCH OR GREATER RAINFALL. SEDIMENTS SHALL BE DISPOSED OF IN AN UPLAND AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND BE PERMANENTLY STABILIZED.
- 8. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION. AT NO TIME SHALL THE TOTAL UNSTABILIZED DISTURBED AREA, INCLUDING LOT DISTURBANCES, BE GREATER THAN FIVE (5) ACRES.
- THE LAND AREA EXPOSED SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME. ALL NON-ACTIVE DISTURBED AREAS SHALL BE STABILIZED WITHIN 30 DAYS OF THE DISTURBANCE. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF FINAL GRADING.
- 10. DITCHES, SWALES AND DRAINAGE BASINS SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- 11. AN AREA SHALL BE CONSIDERED STABILIZED IF ONE OF THE FOLLOWING HAS OCCURRED:
- A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED; B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
- C. A MINIMUM OF 3-INCHES OF NON-EROSIVE MATERIAL, SUCH AS STONE OR RIPRAP, HAS
- BEEN INSTALLED: OR D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 12. EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL SLOPES THAT ARE STEEPER THAN 3:1 (HORIZONTAL / VERTICAL). UNLESS OTHERWISE SPECIFIED THE CONTRACTOR SHALL USE NORTH AMERICAN GREEN SC150, OR
- 13. ALL AREAS RECEIVING EROSION CONTROL STONE OR RIPRAP SHALL HAVE A GEOTEXTILE MATERIAL INSTALLED BELOW THE STONE (SEE APPROPRIATE DETAILS).
- 14. ALL DISTURBED AREAS TO TURF FINISHED SHALL BE COVERED WITH A MINIMUM THICKNESS OF 6 INCHES OF COMPACTED LOAM. LOAM SHALL BE COVERED WITH THE APPROPRIATE SEED MIXTURE AS INDICATED BELOW:

COMMINDIED FOUND FOUND SINCE DE	COTENED MIN HE ALL	HOLINATE OFFI MINIOUF UP HID	IONIED DECOIL
PERMANENT SEED (LAWN AREAS)	LBS / 1.000 SQ. FT.	PERMANENT SLOPE SEED MIX	LBS / 1,000 SQ. FT
CREEPING RED FESCUE PERENNIAL RYEGRASS KENTUCKY BLUEGRASS REDTOP	0.92 LBS 1.15 LBS 0.58 LBS 0.12 LBS	CREEPING RED FESCUE PERENNIAL RYEGRASS REDTOP ALSIKE CLOVER BIRDSFOOT TREFOIL	0.80 LBS 0.69 LBS 0.12 LBS 0.12 LBS

**APPLICATION RATE TOTALS

*1.85 LBS PER 1,000 SF**

15. TEMPORARY STABILIZATION OF DISTURBED AREAS: STRIPPED SOIL SHALL BE STOCKPILED UNCOMPACTED, AND STABILIZED AGAINST EROSION AS OUTLINED BELOW: SEED BED PREPARATION: 10-10-10 FERTILIZATION TO BE SPREAD AT THE RATE OF 7 LBS. PER 100 SF AND AGRICULTURAL LIMESTONE AT A RATE OF 90 LBS PER 1000 SF AND INCORPORATED INTO THE SOIL. THE SOIL,

A. SEED MIXTURE: USE ANY OF THE FOLLOWING:

FERTILIZER AND LIMESTONE SHALL BE TILLED TO PREPARE FOR SEEDING.

**APPLICATION RATE TOTALS

2.8 LBS PER 1,000 SF**

SPECIES	RATE PER 1,000 SF	<u>DEPTH</u>	SEEDING DATES
WINTER RYE OATS	2.5 LBS 2.5 LBS	1 INCH 1 INCH	8/15 TO 9/15 4/15 TO 10/15 8/15 TO 9/15
ANNUAL RYEGRASS		0.25 INCH	8/15 TO 9/15

MULCHING: MULCH SHOULD BE USED ON HIGHLY FRODIBLE AREAS, AND WHERE CONSERVATION OF MOISTURE WILL FACILITATE

	IING: MULCH SHUULD BE U PLANT ESTABLISHMENT AS F		AND WHERE CONSERVATION OF MOISTURE WE
	TYPE	RATE PER 1,000 SF	USE AND COMMENTS
	STRAW	70 TO 90 LBS	MAY BE USED WITH PLANTINGS, MUST BE ANCHORED TO BE USED ALONE
	WOOD CHIPS OR BARK MULCH	460 TO 920 LBS	USED WITH TREE AND SHRUB PLANTING
	FIBROUS MATTING	AS RECOMMENDED BY MANUFACTURER	MUST BE BIODEGRADABLE. USE IN SLOPE AREAS AND AREAS DIFFICULT TO VEGETATE
	CRUSHED STONE 1/4" TO 1-1/2" DIA.	SPREAD TO GREATER THAN 1/2" THICKNESS	USE IN SPECIFIC AREAS AS SHOWN ON PLAN OR AS NEEDED
LY	LIMESTONE AND FERTILIZER	ACCORDING TO SOIL TEST RECOM	MENDATIONS. IF SOIL TESTING IS NOT

- FEASIBLE (CRITICAL TIME FRAMES OR VARIABLE SITES) THEN APPLY FERTILIZER AT A RATE OF 11 POUNDS PER 1,000 SF AND LIMESTONE AT A RATE OF 90 POUNDS PER 1,000 SF. FERTILIZER SHALL BE LOW PHOSPHATE (LESS THAN
- CASE ALL FERTILIZERS SHALL BE RESTRICTED TO A LOW PHOSPHATE, SLOW RELEASE NITROGEN FERTILIZER. SLOW RELEASE FERTILIZERS MUST BE AT LEAST 50% SLOW RELEASE NITROGEN COMPONENT. NO FERTILIZER EXCEPT LIMESTONE SHALL BE APPLIED WITHIN 25 FEET OF THE SURFACE WATER. THESE ARE REGULATED LIMITATIONS.

17. CAUTION SHOULD BE TAKE WHEN THE PROPERTY IS LOCATED WITHIN 250 FEET OF A WATER BODY. IN THIS

- 18. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS (SEE WINTER CONSTRUCTION NOTES). NO DISTURBED AREAS SHALL BE LEFT EXPOSED DURING THE WINTER MONTHS.
- 19. A VIGOROUS DUST CONTROL PROGRAM SHALL BE APPLIED BY THE SITE CONTRACTOR. DUST SHALL BE MANAGED THROUGH THE USE OF WATER AND/OR CALCIUM CHLORIDE.
- 20. IN NO WAY ARE THE MEASURES INDICATED ON THE PLANS OR IN THESE NOTES TO BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR SHALL USE JUDGMENT TO INSTALL ADDITIONAL EROSION CONTROL MEASURES AS SITE CONDITIONS, WEATHER OR CONSTRUCTION METHODS WARRANT.
- FOLLOWING PERMANENT STABILIZATION, TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND ACCUMULATED SEDIMENTATION IS TO BE DISPOSED OF IN AN APPROVED LOCATION, OUTSIDE OF JURISDICTIONAL
- 22. LOT DISTURBANCE OTHER THAN SHOWN ON THE APPROVED PLANS, SHALL NOT COMMENCE UNTIL AFTER THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.
- 23. THE CONTRACTOR AND OWNER ARE RESPONSIBLE FOR OBSERVING AND MANAGING THE PROJECT PER RSA 430:53 AND AGR 3800 REGARDING INVASIVE SPECIES (PLANTS AND INSECTS). NO INVASIVE SPECIES PLANT OR INSECT SHALL BE INTRODUCED ONTO THE SITE.

EROSION CONTROL NOTES



ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATED GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED. STABILIZATION METHODS SHALL INCLUDE SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

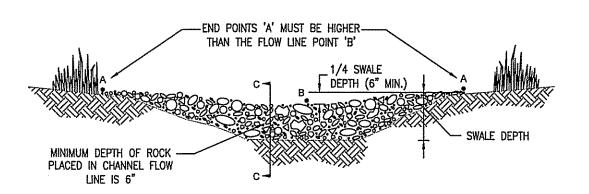
2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATED GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

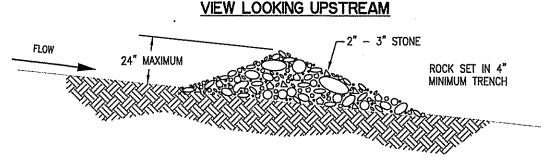
3. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL OR PROPERLY INSTALLED EROSION CONTROL BLANKETS COVERED WITH HAY. OTHER STABILIZATION OPTIONS ARE TO BE APPROVED BY THE APPROPRIATE AGENCIES AND THE DESIGN ENGINEER. IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER MONTHS THEN THE ROAD SHOULD BE CLEARED OF ACCUMULATED SNOW AFTER EACH STORM EVENT.

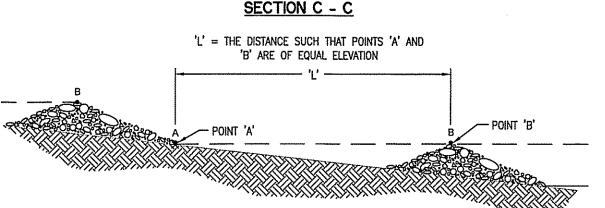
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WINTER CONSTRUCTION NOTES	DT-

- INSTALL SILTATION CONTROL FENCES IN LOCATIONS SHOWN HEREON. <u>EROSION AND SEDIMENTATION CONTROL</u> <u>MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATION.</u>
- 2. INSTALL STABILIZED CONSTRUCTION EXIT(S).
- 3. CUT AND CLEAR TREES; DISPOSE OF DEBRIS. STUMPS ARE TO BE GROUND AND USED FOR EROSION CONTROL OR REMOVED AND DISPOSED OF PROPERLY. STUMPS SHALL BE COMPACTED AND ALL VOIDS FILLED WITH SUITABLE MATERIAL. COVER WITH 4" OF LOAM AND SEED PER THE EROSION CONTROL NOTES.
- 4. REMOVE TOPSOIL AND STOCKPILE AWAY FROM ANY WETLAND. STABILIZE STOCKPILE IMMEDIATELY BY SEEDING. PLACE SILT FENCE AROUND THE DOWN SLOPE SIDE OF EARTH STOCKPILES.
- 5. ROUGH GRADE SITE CONSTRUCT DRAINAGE BASINS AND DRAINAGE SWALES DURING INITIAL PORTION OF CONSTRUCTION. STABILIZE IMMEDIATELY PER THE CONSTRUCTION AND EROSION CONTROL DETAILS. DO NOT DIRECT STORM WATER RUNOFF TO THESE STRUCTURES UNTIL A HEALTHY VEGETATIVE COVER IS ESTABLISHED.
- 7. CONSTRUCT GRAVEL PARKING AREA (PAVEMENT OPTIONAL) AND BUILDING PAD. INSTALL UTILITIES AND STRUCTURES. ALL CUT AND FILL SLOPES SHALL BE STABILIZED UPON COMPLETION OF ROUGH GRADING PER THE THE EROSION
- 8. INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A WEEKLY BASIS AND AFTER EVERY 0.25" OR GREATER
- 9. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, CULVERTS, DITCHES, SILTATION FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
- 10. FINISH GRADING TO PREPARE FOR PAVING (IF ANY) AND LOAMING. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.
- 11. FINISH PAVING (IF ANY). PERMANENT SEEDING SHALL BE PERFORMED UPON COMPLETION OF PARKING AREA (SEE EROSION CONTROL NOTES).
- 12. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 13. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED,
- 14. ALL STRUCTURES SHALL BE CLEANED OF SEDIMENTS ONCE CONSTRUCTION IS COMPLETE.









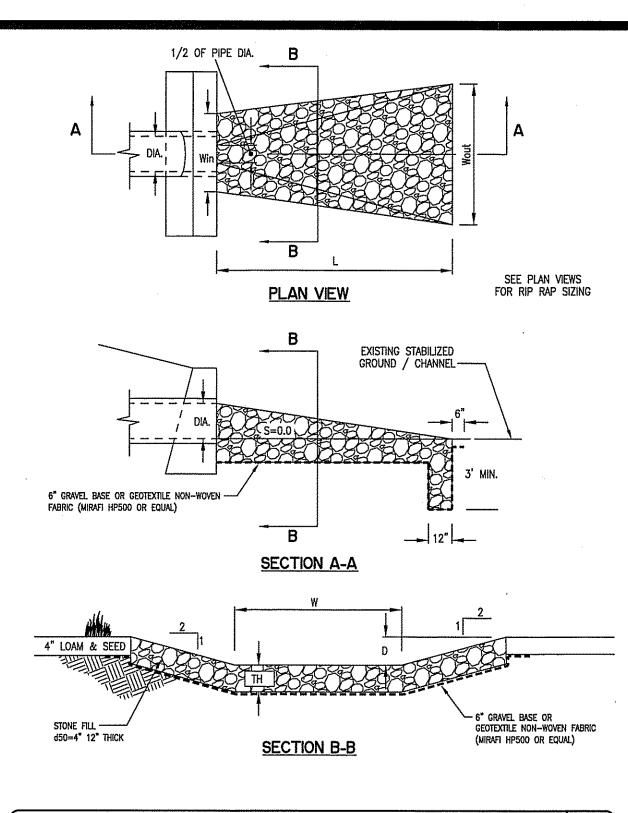
PROFILE - CHECK DAM SPACING

DT-3

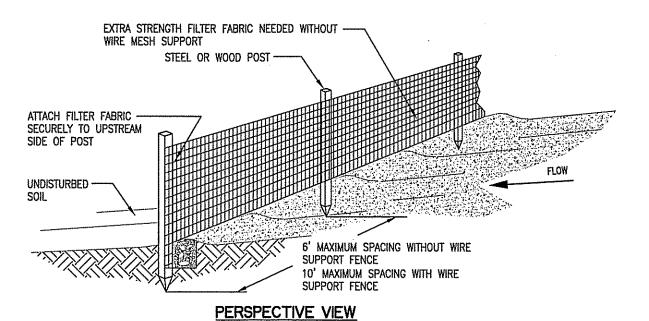
- STONE CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE OR
- 2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE CHECK DAM SHOULD BE LESS THAN ONE ACRE.
- STONE CHECK DAMS SHOULD NOT BE USED IN A FLOWING STREAM.
- 4. STONE CHECK DAMS SHOULD BE CONSTRUCTED OF WELL-GRADED ANGULAR 2 TO 3 INCH STONE. THE INSTALLATION OF 3/4-INCH STONE ON THE UPGRADIENT FACE IS RECOMMENDED FOR BETTER
- WHEN INSTALLING STONE CHECK DAMS THE CONTRACTOR SHALL KEY THE STONE INTO THE CHANNEL BANKS AND EXTEND THE STONE BEYOND THE ABUTMENTS A MINIMUM OF 18-INCHES TO PREVENT
- 6. STONE CHECK DAMS SHOULD BE REMOVED ONCE THE SWALE OR DITCH HAS BEEN STABILIZED UNLESS OTHERWISE SPECIFIED.

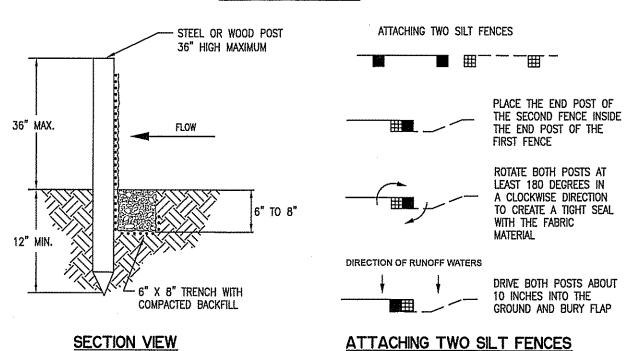
STONE CHECK DAM







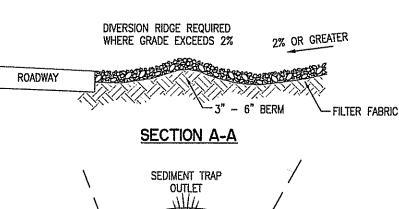


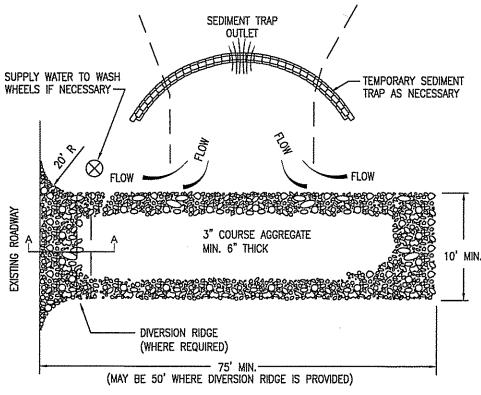


SECTION VIEW NOTES:

- 1. SILT FENCES SHOULD NOT BE USED ACROSS STREAMS, CHANNELS, SWALES, DITCHES OR OTHER
- 2. SILT FENCE SHOULD BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE AND THE ENDS OF THE SILT FENCE SHOULD BE FLARED UPSLOPE.
- 3. IF THE SITE CONDITIONS INCLUDE FROZEN GROUND, LEDGE OR THE PRESENCE OF HEAVY ROOTS THE BASE OF THE FABRIC SHOULD BE EMBEDDED WITH A MINIMUM THICKNESS OF 8 INCHES OF 3/4-INCH
- 4. SILT FENCES PLACED AT THE TOE OF SLOPES SHOULD BE INSTALLED AT LEAST 6 FEET FROM THE TOE TO ALLOW SPACE FOR SHALLOW PONDING AND ACCESS FOR MAINTENANCE.
- 5. THE MAXIMUM SLOPE ABOVE THE FENCE SHOULD BE 2:1 AND THE MAXIMUM LENGTH OF SLOPE ABOVE THE FENCE SHOULD BE 100 FEET.
- 6. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
- 7. SILT FENCES SHOULD BE REMOVED WHEN THE UPSLOPE AREAS HAVE BEEN PERMANENTLY

SILT FENCE DT-3





<u>PLAN VIEW</u>

NOTES:

DT-3

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- 2. THE MINIMUM STONE USED SHOULD BE 3-INCH CRUSHED STONE.
- 3. THE MINIMUM LENGTH OF THE PAD SHOULD BE 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH HIGH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.
- 4. THE PAD SHOULD EXTEND THE FULL WIDTH OF THE CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS GREATER.
- 5. THE PAD SHOULD SLOPE AWAY FROM THE EXISTING ROADWAY.
- 6. THE PAD SHOULD BE AT LEAST 6-INCHES THICK.
- 7. THE GEOTEXTILE FILTER FABRIC SHOULD BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE BELOW THE PAD.
- 8. THE PAD SHALL BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE.
- 9. NATURAL DRAINAGE THAT CROSSES THE LOCATION OF THE STONE PAD SHOULD BE INTERCEPTED AND PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET
- 10. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- 11. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT

GRAVEL CONSTRUCTION EXIT

SCALE: N.T.S.

A 3/9/20 REVISION PER STAFF COMMENTS CLR NRC REV. DATE C/O DR CK **DESCRIPTION**

EROSION CONTROL DETAILS PONEMAH PINES

TAX MAP 43 PARCEL 61 - PONEMAH HILL ROAD MILFORD, NEW HAMPSHIRE

PREPARED FOR:

PONEMAH PINES, LLC 476 ROUTE 13 SOUTH, MILFORD NH 03055

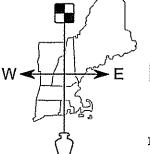
LAND OF

FREDERICK & CELIA LORDEN TRUST 19 PONEMAH HILL ROAD, MILFORD NH 03055

SCALE: NOT TO SCALE

JANUARY 20, 2020

Surveying ϕ Engineering ϕ Land Planning ϕ Permitting ϕ Septic Designs



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