



# NONRESIDENTIAL SITE PLAN APPLICATION City of Rochester, New Hampshire

	[office use only. Check #_	Amount	\$	ate paid	]
Date: <u>August 7, 2019</u>	Is a conditional use (If so, we encourage				
Property information					
Tax map #: <u>222;</u> Lot #('s):	16	; Zoning district	General Ir	ndustrial	
Property address/location:	109 Chestnut Hill R	oad			
Name of project (if applicab	le): <u>Nantucket Bead</u>	board			
Size of site: 13.32 acres	overlay zoning distri	ct(s)? Conserva	ntion Overlay		
Property owner  Name (include name of ind	ividual): Thomas R	Miller			
Mailing address: <u>109 Che</u>					
Telephone #: <u>603 330-1070</u>	J	Email: <u>tom@t</u>	<u>eadboard.co</u>	om	
<b>Applicant/developer</b> (i Name (include name of ind					
Mailing address:					
Telephone #:					
Engineer/designer Name (include name of indi	vidual): <u>Norway Plai</u>	ns Associates, I	nc; c/o Scott	Lawler, PE	
Mailing address: PO Box 24	19; Rochester, NH 03	8866-0249			
Telephone #: 603 335-3948	3	Fax #: <u>603 33</u>	32-0098		
Email address: <u>slawler@nc</u>	rwayplains.com	Professiona	l license #:	PE 10026	
Proposed activity (check New building(s): X States	Site development (oth			,	
in an included a second and a second a					

Page 1 (of 3 pages)

(Continued <u>Nonresidential Site Plan</u> application Tax Map: <u>222</u> Lot: <u>16</u> Zone <u>GI</u>
Describe proposed activity/use: The proposed project is to construct two 10,000-sf manufacturing & materials storage buildings as part of a phased project at the existing manufacturing facility
Describe existing conditions/use (vacant land?): The site is already developed with several industrial buildings and pavement associated with the business. The location of the proposed new building is wooded
Utility information
City water? yes X no ; How far is City water from the site?
City sewer? yes_X no; How far is City sewer from the site?
If City water, what are the estimated total daily needs? 210 gallons per day
If City water, is it proposed for anything other than domestic purposes? yes No X_
If City sewer, do you plan to discharge anything other than domestic waste? yes No X
Where will stormwater be discharged? <u>Infiltration Basins and Wetlands once treated</u>
Building information
Type of building(s): Steel Framed with metal siding similar to existing buildings
Building height: 21 feet Finished floor elevation: 239.00'
Other information
# parking spaces: existing: <u>26</u> total proposed: <u>12</u> ; Are there pertinent covenants? <u>No</u> Number of cubic yards of earth being removed from the site <u>0</u> cy  Number of existing employees:; number of proposed employees total: <u>7</u> Check any that are proposed: variance; special exception; conditional use <u>X</u>
Netlands: Is any fill proposed? No; area to be filled:; buffer impact? Yes

Proposed post-development disposition of site (should total 100%)						
	Square footage	% overall site				
Building footprint(s) – give for each building	26,000 sf main building, 11,750 sf Secondary, 4,375 storage & 20,000 sf proposed building = 62,125 sf	10.7%				
Parking and vehicle circulation	97,210 sf	16.8%				
Planted/landscaped areas (excluding drainage)	89,350 sf	15.4%				
Natural/undisturbed areas (excluding wetlands)	183,900 sf	31.7%				
Wetlands	121,275 sf	20.9%				
Other – drainage structures, outside storage, etc.	25,920 sf	4.5%				

Page 2 (of 3 pages)

(Continued Nonresidential Site Plan application Tax Map: 222	Lot:_10	Zone Gl		
Comments				
Please feel free to add any comments, additional inform A waiver request is being sought to require the number number of employees on maximum shift rather than the	of parking	spaces based on the		
<b>Submission of application</b> This application must be signed by the property owner, property owner), <i>and/or</i> the agent.	applicant/o	developer (if different from		
I(we) hereby submit this Site Plan application to the City pursuant to the City of Rochester Site Plan Regulations knowledge all of the information on this application form materials and documentation is true and accurate. As a property owner) as agent, I attest that I am duly authorize	and attest and in the pplicant/de zed to act	t that to the best of my e accompanying application eveloper (if different from in this capacity.		
Signature of property owner:				
Signature of property owner:	Date:	8/7/19		
Signature of applicant/developer:				
	Date:			
Signature of agent:				
	Date: Aug	gust 7, 2019		
Authorization to enter subject property  I hereby authorize members of the Rochester Planning Board, Zoning Board of Adjustment, Conservation Commission, Planning Department, and other pertinent City departments, boards and agencies to enter my property for the purpose of evaluating this application including performing any appropriate inspections during the application phase, review phase, post-approval phase, construction phase, and occupancy phase. This authorization applies specifically to those particular individuals legitimately involved in evaluating, reviewing, or inspecting this specific application/project. It is understood that these individuals must use all reasonable care, courtesy, and diligence when entering the property.				
Signature of property owner:		8/7/19		
	Date.	-0////		

Page 3 (of 3 pages

## NORWAY PLAINS ASSOCIATES, INC.

LAND SURVEYORS • SEPTIC SYSTEM DESIGNERS • CIVIL ENGINEERS

P.O. Box 249 Continental Blvd. (03867) Rochester, NH 03866-0249 Fax (603)332-0098 Phone (603) 335-3948 / (800) 479-3948 slawler@norwayplains.com



P. O. Box 268 31 Mooney St. Alton, NH 03809 www.norwayplains.com Phone & Fax (603) 875-3948 rtetreault@norwayplains.com

August 13, 2019

Seth Creighton, Chief Planner Planning Department City of Rochester 33 Wakefield Street Rochester, NH 03867

Re: Non- Residential Site Plan Application; Nantucket Beadboard, 109 Chestnut Hill Road, Map 222, Lot 16.

Dear Mr. Creighton:

On behalf of Thomas Miller and Nantucket Beadboard, we hereby submit new plans and nonresidential site plan application for a proposed phased industrial expansion their facility at 109 Chestnut Hill Road. Nantucket Beadboard manufactures architectural beadboard for wholesale all over the country and has recently expanded their distribution into 14 new states. Nantucket Beadboard is proposing a 10,000 square foot manufacturing and material storage building initially and then constructing an additional 10,000 square feet within three years after completion of the first half.

These plans and application have been revised to locate the building 100 feet from shared boundary line with the residential properties. This was necessary, since the Planning Board denied a Conditional Use Permit to allow for an industrial use to be closer than 100 feet when 75 feet was requested.

The 13.32-acre property is owned by Thomas Miller and located within the Industrial (GI) zoning district. The facility has undergone several expansions over the past twenty years with the latest building construction in 2006. In 2016, the company received approval from the Rochester Planning Board for a Conditional Use to allow for the construction of an access road through the Conservation Overlay District to useable land in preparation for future expansion.

The parcel is located on the north side of Chestnut Hill Road with the Spaulding Turnpike to the west and north and residential properties to the east. The front third of the property is the existing facility, which consist of three main buildings and associated parking and unloading zones. The middle third of the lot is a large wetland complex with the aforementioned access road crossing it in the location of a historical farm road. The last third, about 7.25 acres, is wooded that gentle slope southerly and westerly towards the wetlands complex. Jurisdictional wetlands were delineated by B.H. Keith Associates last summer and was consistent with the delineation that was performed in 2005.

Nantucket Beadboard is proposing to construct the first 50' x 200' (10,000 square feet) industrial building. This building will become the new shipping department for the business. This will result in some construction of shipping packing for the finished beadboard as they are prepared to be sent to the suppliers. Construction of the shipping bottoms and crates will require the use of some saws, pneumatic nail guns and other standard wood construction power tools. The dust collectors and air compressors will be inside the building to reduce the noise to the extent possible. This building will also be used to store materials for the shipping process as well as product

### Nantucket Beadboard - Site Plan - Narrative

Page 2

for a new line of Re-Wood®. There will be about 4 to 6 employees that will be working within this building. This first section of the building will also contain a small office, utility room and bathrooms that will service the initial construction as well as the future addition.

The primary function of the second building phase will be manufacturing a new product of engineered beadboard. The manufacturing of this new project requires a long building to house the machines and process line. Similar to the Phase 1 portion, the building will have limited number of employees and all dust collection and machinery will be housed inside the building. Please see the attached use list provided by Nantucket Beadboard which outlines the proposed uses and functions, equipment and employees associated with the proposed building and future building.

The steel framed and metal sided building will be same green color as the existing building constructed in 2006. The building will generally operate the same hours of operation as the main facility; Monday through Thursday from the hours of 7 am to 5 pm with limited hours on Friday.

Access to the building will be through the existing site off Chestnut Hill Road across the causeway to the northside. In addition to the paved areas for the large trucks and equipment, paved parking area will accommodate 12 vehicles at which one of the spaces are designated as accessible. Since the proposed 20,000 square foot building would require 22 parking spaces and the entire facility would require a total of 70 parking spaces, a waiver is being requested to allow for 38 total spaces. This is currently 13 employees that would be on site during the maximum shift, with no increase number proposed at this time.

The business expects a couple of deliveries of raw materials to the proposed building and a couple trips leaving the site over the course of the 4-day week. The trucks will be loaded or off loaded, usually taking 20 to 30 minutes with the use of electric forklifts. Afterwards, the raw material or finish product is shuttled between the proposed building and the manufacturing process in the existing buildings with the forklifts or small tow vehicle and small utility trailer. In the rare occasion that a delivery truck arrives while the business is closed, they will park in the front half of the existing facility as they currently do.

The stormwater from the impervious surfaces will be directed towards treatment swales and infiltration basins. The basins have been designed for both phases as well as for potential additional buildings and associated pavement that might be constructed in the future. The new driveway will be curbed to direct stormwater towards the existing facility and the current stormwater detention basin. This basin is large enough to account for the addition stormwater runoff once additional orifices are created in the existing outlet stand pipe. Prior to discharging into the infiltration basins, the stormwater will be directed into treatment swales. The infiltration basins were designed to provide the groundwater recharge to offset the impervious coverage for the project. Therefore, a vast amount of the stormwater will be infiltrated back into the ground. Emergency stone lined spillways will be installed on the berm of both basins. The result of the proposed project and stormwater management system will nearly balance the predevelopment and post-development flow rates and volumes. That being said, there is a slight increase in the volume of stormwater leaving the site during all storm events of less than 0.06 acre-feet. The slight increase in volumes are insignificant given the large wetlands complex which it is discharging into. A waiver was previously granted by the Planning Board at the June meeting, for similar increase to the stormwater runoff.

A conditional Use Permit application was also granted by the Planning Board at the June meeting to allow for some minor grading within the City of Rochester Conservation Overlay District. The proposed grading within the outer 25 feet of the COD and associated with the construction of the proposed stormwater management systems did not change from the previous submittal. With the implementation of Best Management Practices, BMPs, protection of the wetlands will be maintained throughout construction.

The site will continue to be serviced by City water and sewer systems via new connections to the municipal utilities. A water connection is being proposed to an existing 12" water main that runs along the westerly boundary

#### Nantucket Beadboard - Site Plan - Narrative

Page 3

line. A water meter valve pit will be installed with a main meter, redundant check valves and backflow preventors along with a smaller bypass line. Due to the minimum sanitary waste generated by the new building, a small low-pressure force main will send effluent from the proposed building to the existing sewer service near Chestnut Hill Road. The site will have underground utility conduits and natural gas run in from the existing facility. The applicant is proposing wall mounted lighting fixtures to limit the lighting to around the building. Further reducing the lighting, the fixtures on the northern end of the building will be placed on a timer and will be motion activated. There will be fixed security cameras placed around the site.

Placement of this building along this property line will further reduce the overall impacts to the residential properties, as it will provide a visual and audible buffer from the future buildings and the majority of the vehicle traffic. To further enhance this buffer, the applicant is proposing a 6-foot high cedar stockade fence which will sit upon a 2-foot high earthen berm effectively making it about 8 feet above the natural grade. There will also be about 70 feet of natural vegetation that will remain between the development and the residential properties.

We realize that the Planning Board suggested having some addition buffering from the residential properties in the form of new evergreen trees. However, based on the recommendations from Woodburn Company, we have not included any in our design. As noted in the attached letter, planting trees would not be an effective means of screening due to the lack of direct sunlight necessary to maintain a dense vegetative screen. In order to provide sufficient sunlight, existing vegetation would need to be removed which would be counterproductive to the reason for the plantings.

Snow storage will be located on the end and westerly side of the main parking / unloading area and at the end of the small parking lot in front of the building. The gravel access to the northern egress door is wide enough to accommodate the facility's snow blower.

The existing facility has recently completed a transition to a full water base paint and gluing operations. As such, the only hazardous materials on site are consistent with normal residential uses, such as gas for the snow blowers and lawn mowers, etc. These are stored in the existing fire proof locker in the main building.

With the phased project as designed, the development will trigger the need for an Alteration of Terrain Permit from the NH Department of Environmental Services. The application is being submitted concurrently with the City Planning Board applications.

We look forward to discussing this project with staff and the Planning Board. Thank you for your consideration Sincerely,

NORWAY PLAINS ASSOCIATES, INC.

By:

Scott A. Lawler, PE, Project Engineer

cc: Thomas Miller - Nantucket Beadboard

# NORWAY PLAINS ASSOCIATES, INC.

LAND SURVEYORS • SEPTIC SYSTEM DESIGNERS • CIVIL ENGINEERS

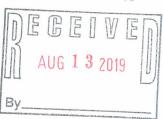
P.O. Box 249 Continental Blvd. (03867) Rochester, NH 03866-0249 Fax (603)332-0098 Phone (603) 335-3948 / (800) 479-3948 slawler@norwayplains.com



P. O. Box 269
31 Mooney St
Alton, NH 03809
www.norwayplains.com
Phone & Fax (603) 875-3948
rtetreault@norwayplains.com

August 12, 2019

Seth Creighton, Chief Planner Planning Department City of Rochester 33 Wakefield Street Rochester, NH 03867



Re: Waiver Request: Section 10(A); Number of Parking Spaces, Nantucket Beadboard, 109 Chestnut Hill Road; Rochester, NH, Tax Map 222, Lot 16.

Dear Seth:

On behalf of Thomas Miller and Nantucket Beadboard, Norway Plains Associates respectfully requests waivers to the following Site Plan Regulation:

#### Waiver Request Section 10 (A):

Section 10(A) of the Rochester Site Plan Review Regulations requires that the minimum number of designated off street parking shall be provided on each site based upon the type of use, as shown in the Table of Parking Requirements. For Industrial use, the requirement is 1 space per 1000 square feet of gross floor area plus 3 spaces per 1,000 gross square feet for area designated for offices or retail sales.

Under the Site Review Regulations, the existing and proposed industrial use, the total number of parking spaces based on the total gross floor area of the industrial use and the office use is 70:

40,125 sf existing Industrial + 19,400 sf proposed Industrial Plus
1 space per 1,000 sf Industrial Use
3,000 sf existing office + 600 sf. proposed office
3 spaces per 1,000 sf Office

There are a total of 26 existing and 12 proposed parking spaces delineated on the site plans for a total of 38 spaces.

Much of the proposed 10,000 square foot Phase 1 building will be utilized for the relocated shipping department and some storage of raw materials for the facility, there will be very limited parking needs at this time. The second phase addition will be used for a new produce line that requires a long building for the equipment without a lot of employees. Furthermore, given the lack of any previous parking issues at the facility for the employees and visitors, there is no anticipation to be any in the future. Therefore, we respectively request a waiver to allow the lessor amount of required parking set forth within the Rochester Site Review Regulations

Thank you for your consideration.

Sincerely,

NORWAY PLAINS ASSOCIATES, INC.

By:\_\_\_\_\_\_
Scott A. Lawler, P.E., Project Engineer

•		
P. O. Box 268		
31 Mooney St. on, NH 03809 vayplains.com 03) 875-3948 vayplains.com		
vayplains.com		
ayplains.com		
9		
D		
Rochester,		
llowing		
arking l use, the ated for		
l use, the		
area joi		
the total		
tile total		
e storage		
of any		
efore, we		
egulations.		

### Nantucket Beadboard proposed use for buildings Phase 1 and Phase 2

#### Primary use Phase 1

- 2-3 existing employees
- Move shipping department from existing building #2
- Duties include:
  - Construct standard bottoms for Beadboard picked up by distributors
  - Construct bottoms that will be shipped via common carrier
  - Construct bottoms that will be shipped via export containers
  - Cut all packaging materials for crates
  - Cut blanks for our strip product milled in main building
  - o Unload and store packaging material purchased from Brocks
  - o Unload flatbed trucks and store my longer length material
  - Unload flatbed trucks in main parking lot and store in existing building #2
  - o Transport finished units from paint department to finish crating for shipment
  - o Transport final crated units back to building #2 to loading dock for shipment
  - Transport scrap material to building #1 for disposal
  - Transport trash to dumpster located between buildings 1 & 2

#### **Secondary use for Phase 1:**

- 2-3 existing employees
- Material storage for new product line Re-Wood®

#### **Equipment used in Phase 1:**

- 20' Raimann beam saw
- Indoor dust collector with bags
- 25 HP Air compressor with drier and storage tank
- Pneumatic nail guns and hand tools
- Chop box (mitre saw)

#### **New equipment**

- Hot melt glue line for laminating new product line
- No VOC's no solvents
- The same equipment used for manufacturing engineered flooring

### Primary use for Phase 2 Building

- 2-3 existing employees
- Majority of the processes to the manufacture of Re-Wood®
- I have developed the product over the last 10 years, and it is a space consuming product
- It is very similar to engineered flooring with the exception that we milled it with our Bead profiles
- It is a 5-component product with long process lines
- Storage of all raw materials

### **Processes include:**

- Cut thin wood faces (solid wood) with existing Wintersteiger framing saw
- Cut core stock with existing Wintersteiger framing saw
- Transport core and wood faces back to building #1 for calibration
- Glue components together with the hot melt line from phase 1-A
- Transport laminated blanks back to building #1 for profiling
- Transport back to a new sanding line
- Indoor dust collector with bags
- New water-based UV coating line for finishing (no VOC's, no solvents)
- UV is cured with ultraviolet light
- Transported to shipping department for final packaging



August 8, 2019

Scott Lawler Norway Plains Associates, Inc. PO Box 249 Rochester, NH 03866-0249

Re: Nantucket Beadboard – 109 Chestnut Hill Road, Rochester, NH Abutter screening recommendation

Dear Scott:

I have reviewed your design plans (dated 07/12/19) for a proposed two-phase building located at Nantucket Beadboard. Additionally, on Tuesday, August 6<sup>th</sup>, I walked the site of the proposed building with the owner, Tom Miller.

You have asked for my recommendations as to how to most effectively screen the proposed building from the abutting residential development. My standpoint is that fencing is the most effective means of buffering the proposed building, as you have shown on your plans. More specifically, I would recommend the fencing be cedar, and allowed to weather naturally. This material will blend and recede into the woodland, screening the building effectively. Additionally, cedar fencing is a good choice as it will aid in dampening any noise emanating from the proposed building. As cedar fencing is a denser material than vinyl fencing, it will more effective in reducing noise.

Planting is not an effective means of screening, in this instance. Given that the lot is densely wooded, combined with the placement of potential screen plantings (on the North-facing edge of the canopy opening, and behind the building) they will receive very little direct sunlight. Direct sunlight is necessary to maintain a dense vegetative screen. If a screen planting was installed in this location, it would struggle to maintain needles/leaves on the plants, and decline continuously in its screening effectiveness. Planting is not a sustainable screening approach on this site.

Sincerely,

Victoria Martel

Landscape Designer, for Woodburn & Company

103 KENT PLACE NEWMARKET, NH 03857

603.659.5949

woodburnandcompany.com





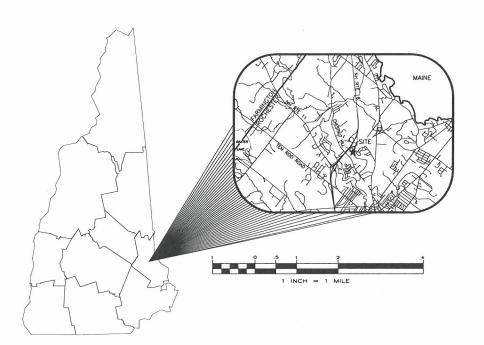
# PROPOSED INDUSTRIAL EXPANSION

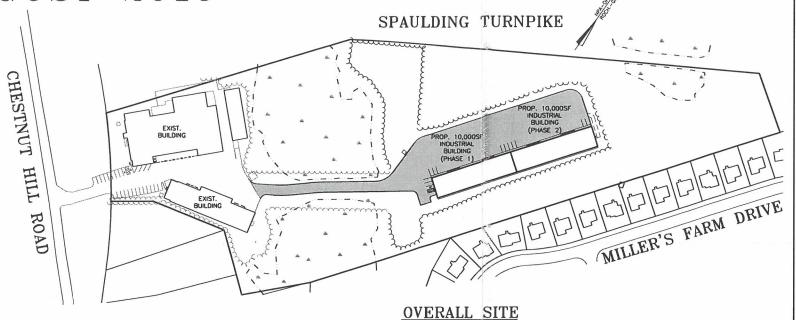
109 CHESTNUT HILL ROAD

PREPARED FOR

NANTUCKET BEADBOARD

AUGUST 2019





1" = 100'



#### CIVIL ENGINEERS

NORWAY PLAINS ASSOCIATES, INC. 2 CONTINENTAL BOULEVARD ROCHESTER, NEW HAMPSHIRE 03867 (603) 335-3948

### **APPLICANT**

NANTUCKET BEADBOARD THOMAS R. MILLER 109 CHESTNUT HILL ROAD ROCHESTER, NH 03867-5122

#### OWNER OF RECORD

TAX MAP 222, LOT 16
OWNER OF RECORD:
THOMAS R. MILLER
109 CHESTNUT HILL ROAD
ROCHESTER, NH 03867-5122
SCRD BOOK 2200, PAGE 0002

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)—335—3948.



NATIONAL POLLUTANT DISCHARGE ELMINATION. SYSTEM (MPDSS):.

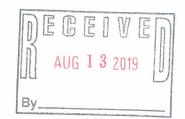
NPDES PERMITS ARE ONLY REQUIRED FOR PROJECTS MEETING THE DISTURBED AREA CRITERIA BELOW AGE HANING A POINT SOURCE STORMWATER DISCHARGE FROM THE SITE TO AN ADJACENT METLAND OR WAITER BODY (I.E. CULVERT, SWALE, ETC. OUTLETING TO A WETLAND, CREEK, STREAM OR RIVER).

REQUIRED

NPDES PERMITS CONSIST OF A NOTICE OF INTENT (NOI) FILED WITH THE ENVIRONMENTAL PROTECTION AGENCY AT LEAST 14 DAYS PRIOR TO CONSTRUCTION COMMENCING, AND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) BEING PREPARED, KEPT ON SITE AND FOLLOWED BY THE CONTRACTOR.

FOR STATUS OF THIS PERMIT, CONTACT THE PROJECT GENERAL CONTRACTOR

FINAL APPROVAL BY ROCHESTER PLANNING BOARD



#### COVER EXISTING FEATURES OVERALL SITE PLAN SITE LAYOUT PLAN GRADING AND DRAINGE PLAN GRADING AND DRAINGE PLAN = 60' = 60' = 40' = 40' = 40' SHEET SHEET SHEET SHEET EROSION AND SEDIMENTATION CONTROL PLAN UTILITY PLAN CONSTRUCTION DETAILS DRAINAGE DETAILS AS SHOWN AS SHOWN SHEET C-8 TEMPORARY EROSION AND SEDIMENTATION AS SHOWN CONTROL DETAILS AS SHOWN

AS SHOWN AS SHOWN

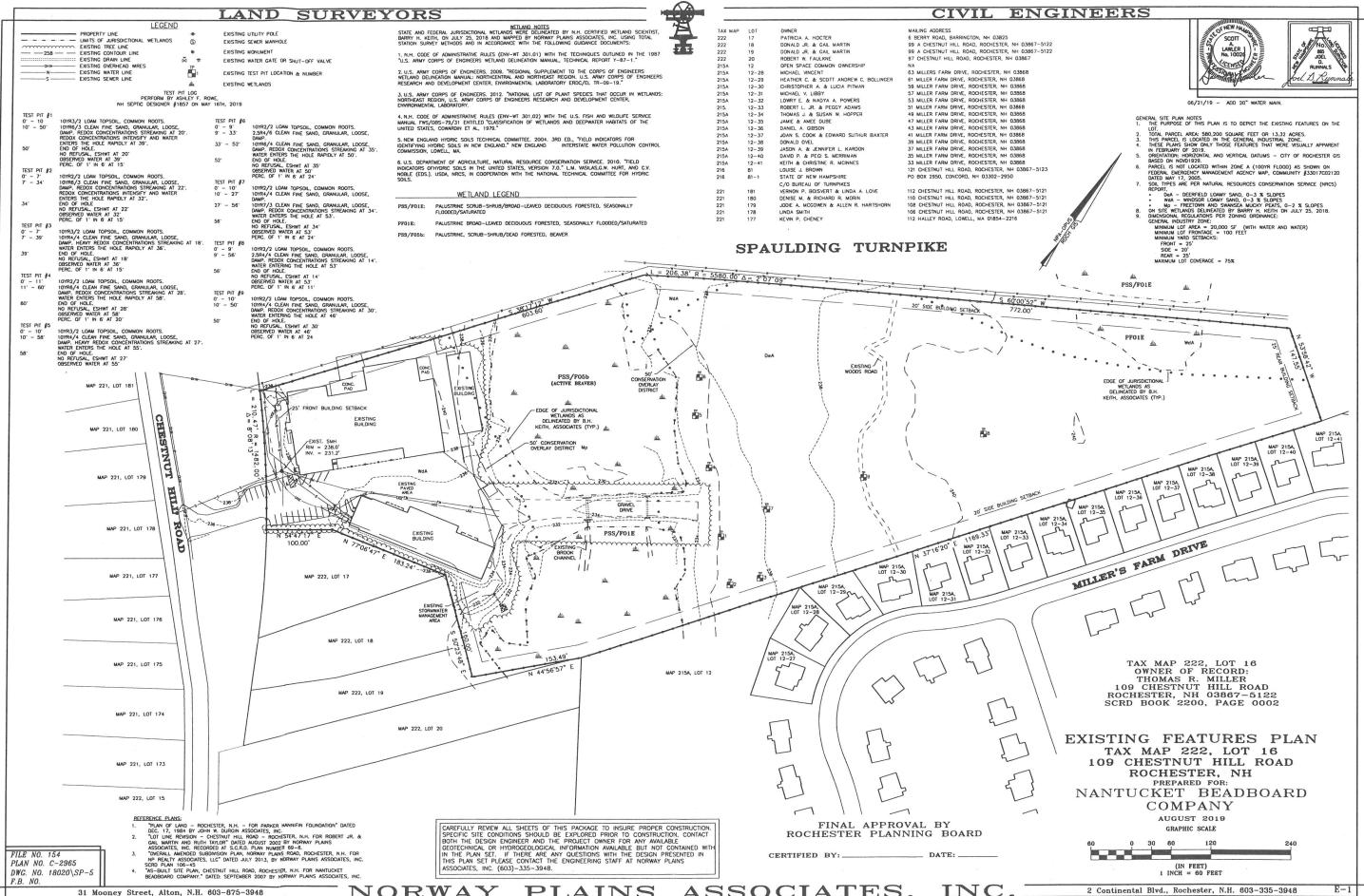
1" = 40' 1" = 40'

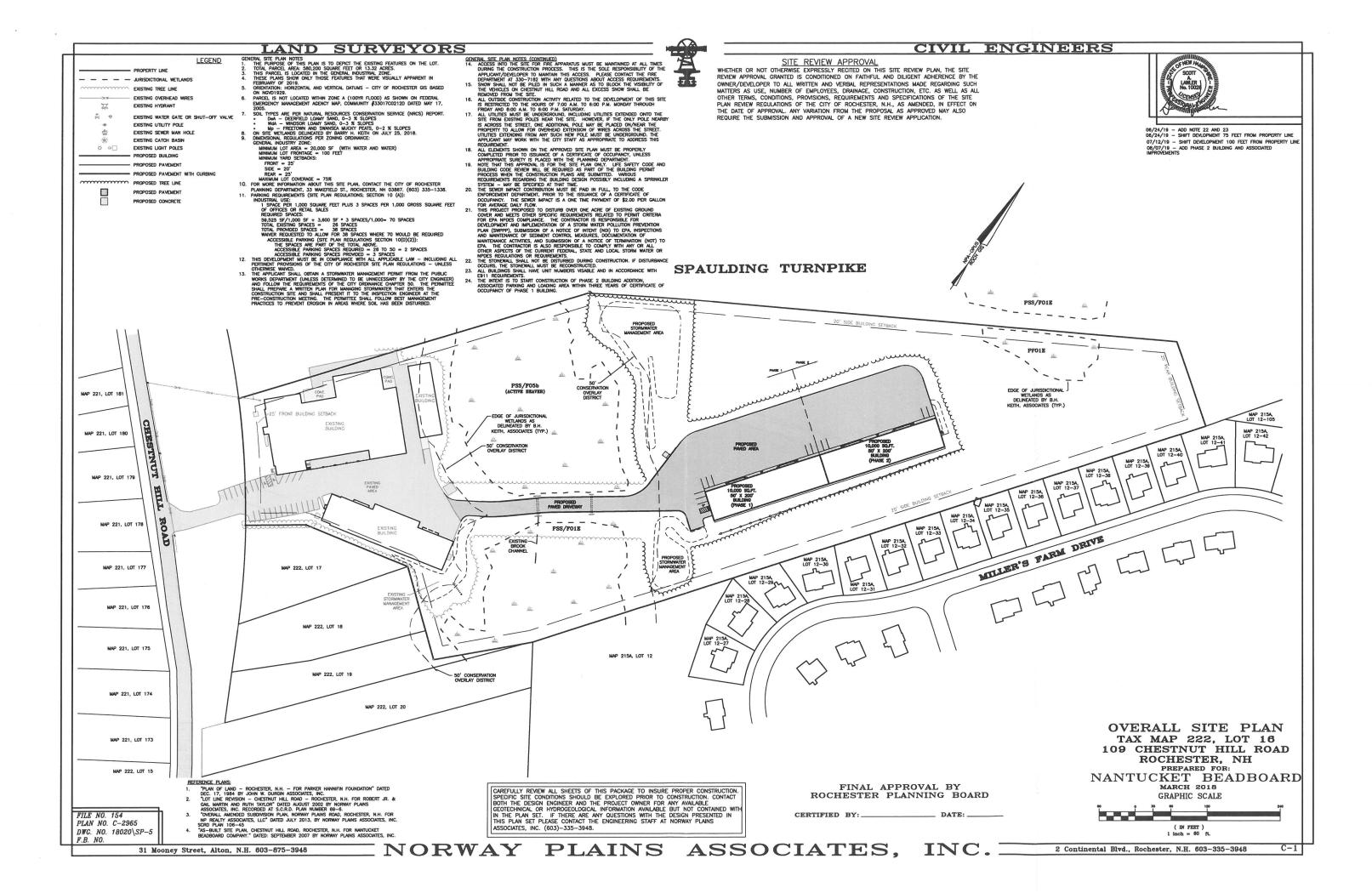
SHEET INDEX

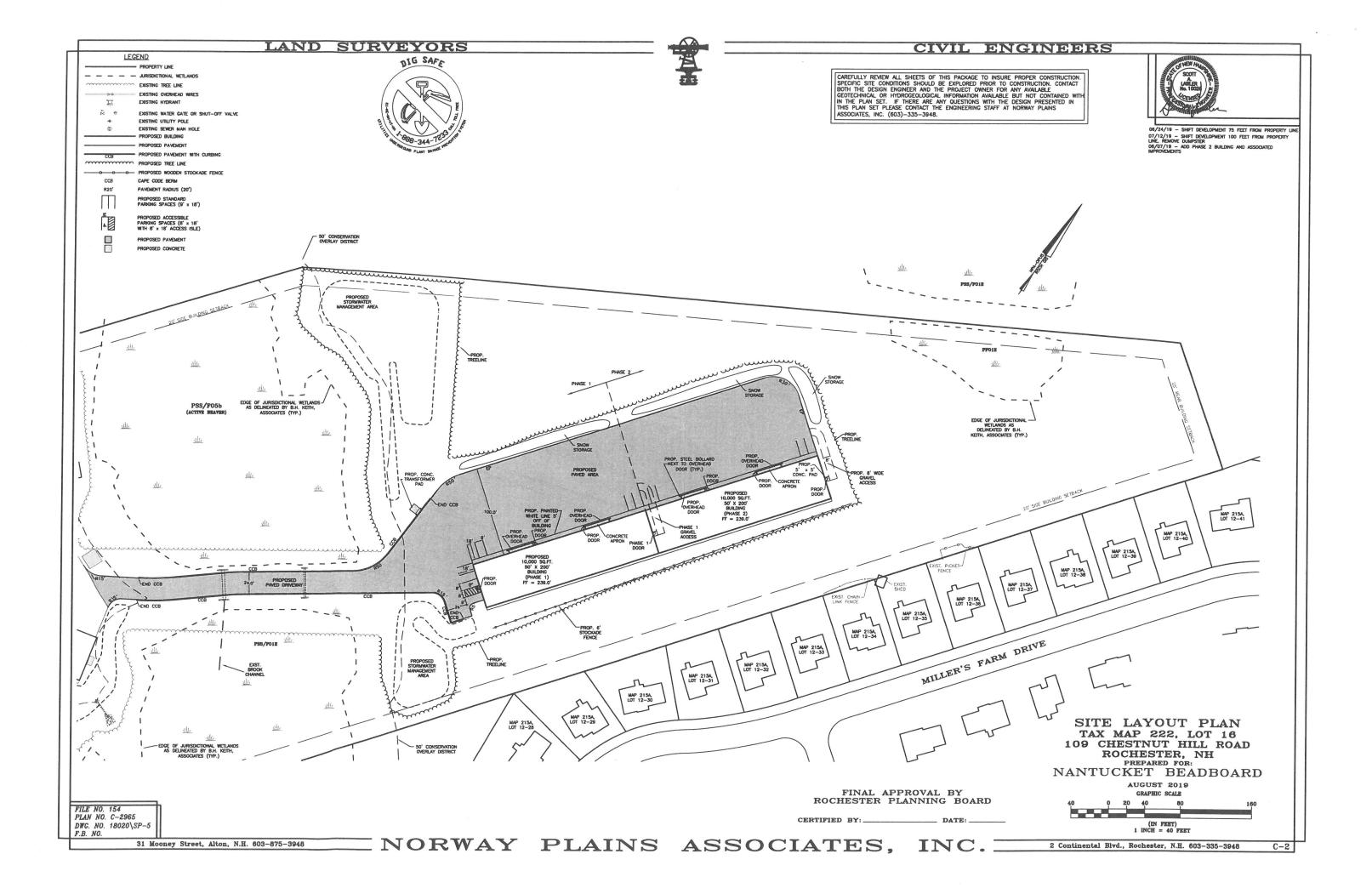
LIGHTING PLAN AND DETAILS FIRETRUCK TURNING PLAN

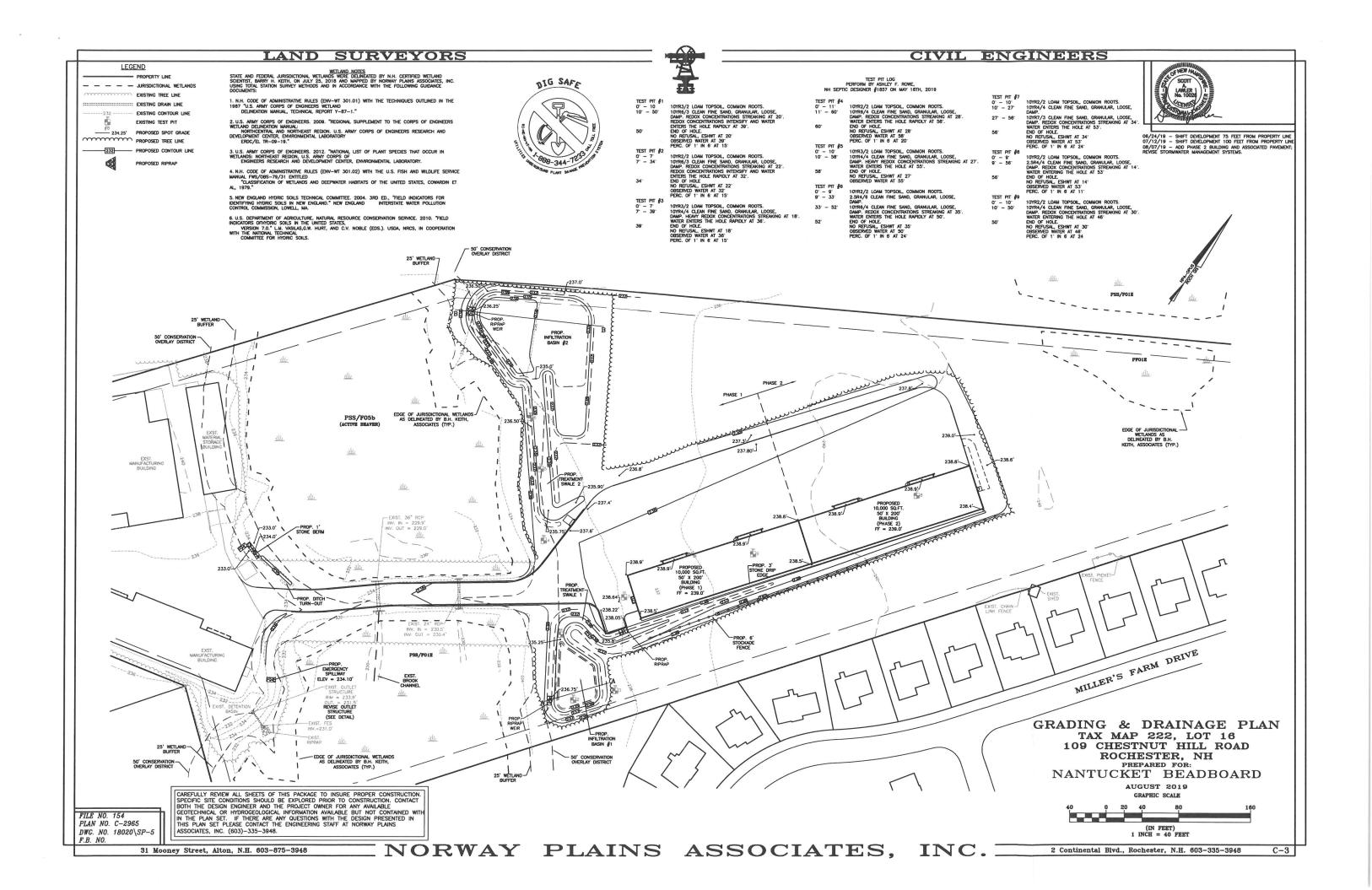
2 Continental Blvd., Rochester, N.H. 603-335-3948

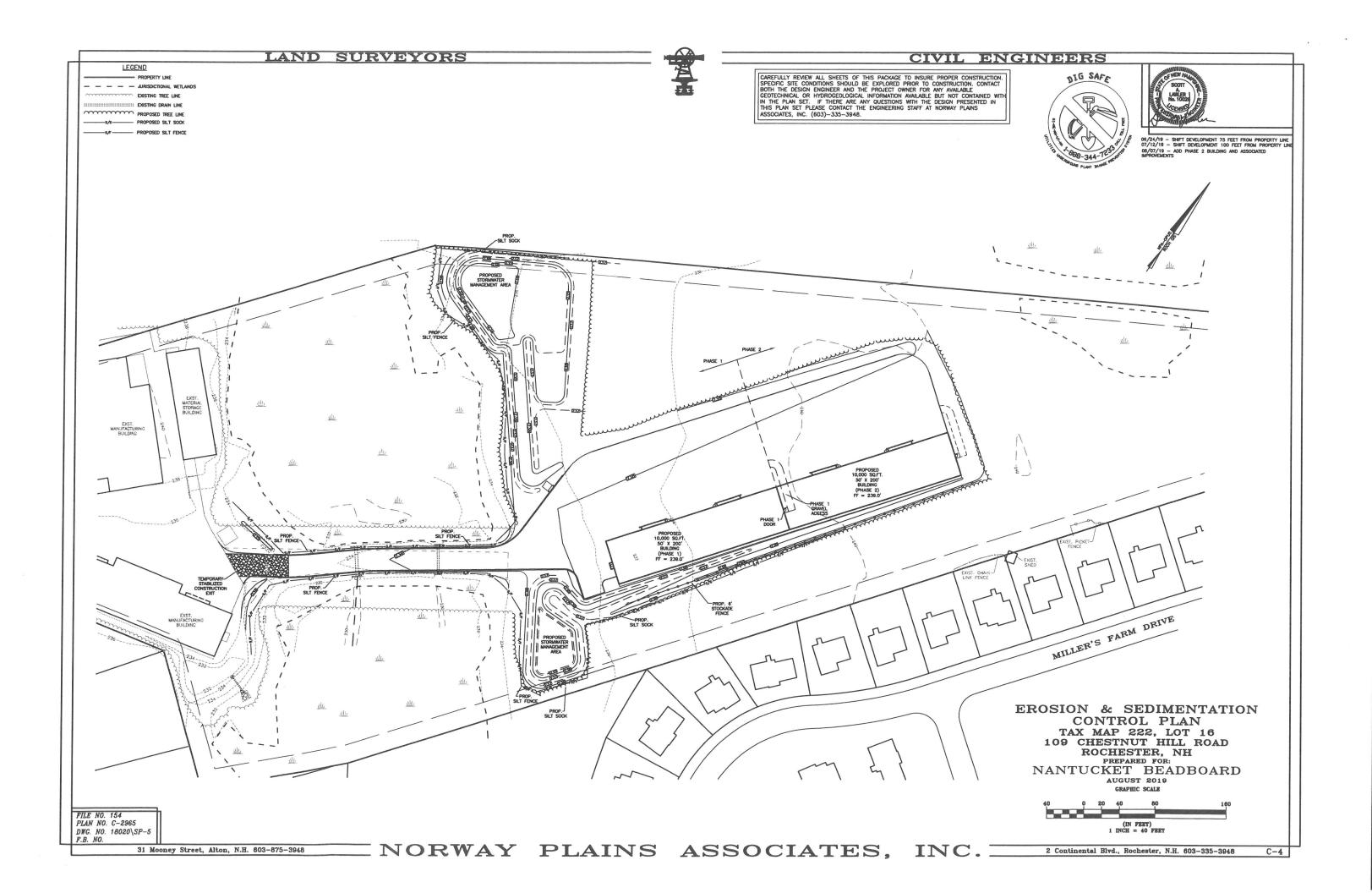
FILE NO. 154 PLAN NO. C-2965 DWG. NO. 18020\SP-5





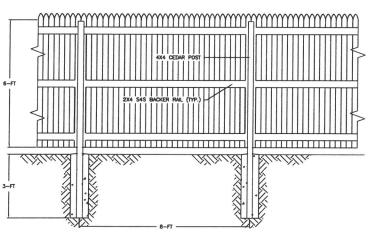






LAND SURVEYORS CIVIL ENGINEERS **LEGEND** CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GETECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET. PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLANS - - JURISDICTIONAL WETLANDS - PROPOSED SEWER LINE PROPOSED SEWER FORCE MAIN PIPE HOPE SOR 11 EXISTING OVERHEAD WIRES - PROPOSED UNDERGROUND ELECTRIC WIRES EXISTING WATER MAIN PROPOSED NATURAL GAS LINE ASSOCIATES, INC. (603)-335-3948. EXISTING GRAVITY SEWER MAIN PROPOSED HYDRANT EXISTING SEWER FORCE MAIN ZIES.
CONSTRUCTION WILL CONFORM TO THE FOLLOWING UTILITIES STANDARDS AND SPECIFICATION:
A) SANDARY SWER DISPOSAL — CITY OF ROCHESTER
B) ELECTRIC DISTRIBUTION — EVERSOURCE
C) TELEPHORE = FARPOWING
D) CABLE — CONSOLIDATED COMMUNICATIONS
E) WAITER — CONSOLIDATED
E) WAITER — CITY OF ROCHESTER PROPOSED WATER VALVE EXISTING UNDERGROUND ELECTRIC WIRES 06/21/19 - ADD 20" WATER MAIN. 06/24/19 - SHIFT DEVELOPMENT 75 FEET FROM PROPERTY LINE 07/12/19 - SHIFT DEVELOPMENT 100 FEET FROM PROPERTY LINE PROPOSED WATER SHUT-OFF VALVE EXISTING UNDERGROUND UTILITY WIRES PROPOSED SEWER MANHOLE EXISTING GAS PIPE PROPOSED BUILDING LIGHT FIXTURES 08/07/19 - ADD PHASE 2 BUILDING AND ASSOCIATED PAVEMENT REVISE UTILITY LOCATIONS. EXISTING DRAIN LINE EXISTING WATER GATE OR SHUT-OFF VALVE 2) ALL PROPOSED ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND. EXISTING SEWER MANHOLE APPROXIMATE LOCATION OF EXISTING 20" WATER MAIN APPROXIMATE LOCATION OF EXISTING 12" WATER MAIN PROP. 6" DI WATER MAIN MAP 215A, LOT 12-35 MAP 215A, LOT 12-34 MILLER'S FARM DRIVE MAP 215A, LOT 12-33 MAP 215A, LOT 12-31 UTILITY PLAN TAX MAP 222, LOT 16 109 CHESTNUT HILL ROAD ROCHESTER, NH PREPARED FOR: NANTUCKET BEADBOARD AUGUST 2019 GRAPHIC SCALE FILE NO. 154 PLAN NO. C-2965 DWG. NO. 18020\SP-5 F.B. NO. NORWAY PLAINS ASSOCIATES, INC. 2 Continental Blvd., Rochester, N.H. 603-335-3948 31 Mooney Street, Alton, N.H. 603-875-3948 C-5





#### FENCE SPECIFICATIONS

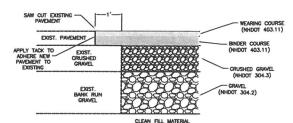
- 1. FENCE POSTS SHALL BE 4"X4" CEDAR.
- STOCKADE PANELS SHALL BE 6-FT X 8-FT 

  1 NORTHERN WHITE CEDAR.

  -PICKETS SHALL BE 1X3X6-FT NORTHERN WHITE CEDAR.
- 3. BACKER RAILS SHALL BE 2X4X8-FT S4S SQUARE END.
- 4. GOOD SIDE OF FENCE FACING OUT.

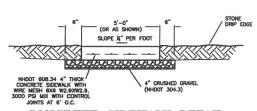
### TYPICAL WOODEN STOCKADE DETAIL

SCALE: 1/2"=1'



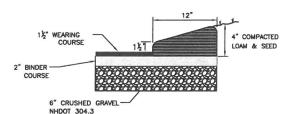
#### TYPICAL PAVEMENT MATCHING DETAIL

NOT TO SCALE



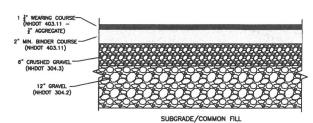
### CONCRETE SIDEWALK DETAIL

NOT TO SCALE



#### BITUMINOUS CAPE COD BERM DETAIL NOT TO SCALE

NOTES: 1. BITUMINOUS CAPE COD BERM SHALL BE INSTALLED ON TOP OF BINDER COURSE.



### PARKING LOT CROSS-SECTIONS

NOT TO SCALE

PAVEMENT NOTES:

1. PLACE COMMON FILL IN 12 INCH LIFTS. COMPACT COMMON FILL TO 95% MAXIMUM PROCTOR DENSITY.

2. PLACE GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.

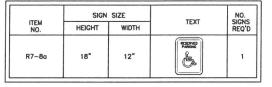
3. PLACE CRUSHED GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.

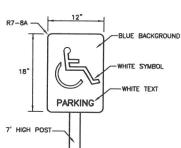
4. PAVEMENT MUST BE INSTALLED IN TWO COURSES, A BINDER COURSE AND A WEARING COURSE.

#### CIVIL ENGINEERS

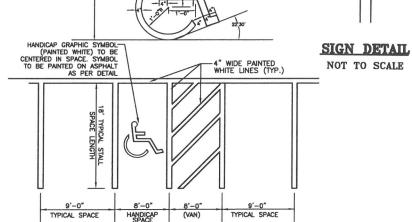
CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AWAILABLE GETECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.







NOT TO SCALE



#### STALL STRIPING DETAIL NOT TO SCALE

# O.D. - CONCRETE FILLED - CLEAN GRAVEL COMPACTED TO 95% 18" 18"

#### STEEL BOLLARD DETAIL NOT TO SCALE

#### CONSTRUCTION SEQUENCE

- AND SILT SOCKS AS CONSTRUCTION PROGRESSES AND UNTIL ALL DISTRUBED AREAS ARE STABLE.

  3.) CONSTRUCT THE TREATMENT SWALE AND INFLITATION BASINS AS SHOWN ON THE PLAN. LOAM, SEED, AND MULCH IMMEDIATELY AFTER CONSTRUCTION.

  4.) THE TREATMENT SWALE AND INFLITATION BASINS MUST BE STABILIZED BEFORE DIRECTING RUNOFF TO THEM. EROSION CONTROL. BLANKETS (CURLEX "EXCELSIOR BY AMERICAN EXCELSIOR OLDMANY, OR COULAL) SHALL BE USED WHERE SOD IS NOT PLACED AND VECETATION IS NOT ESTABLISHED.

  5.) REMOVE THE LOAM AND VECETATION FROM THE BUILDING, PARKING LOT AND BACKSLOPE AREAS. THE LOAM WILL NEED TO BE STORED FOR USE LATER IN STABILIZANT THE SWALES AND SIDESLOPES. THE LOAM PILE SHALL BE SEEDED FOR TEMPORARY PROTECTION SHOULD IT REMAIN INACTIVE FOR MORE THAN 30 C). CUT THE PARKING LOT, BACKSLOPE AREAS, AND SULCIONED AND SULCIONED AREAS TO SUB-GRADE.

  7.) ALL CUT THAT AND FILL SLOPES SHALL BE SEEDED AND MULCHED OR COVERED WITH AN
- 7.) ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED OR COVERED WITH AN EROSION CONTROL BLANKET IMMEDIATELY AFTER THEIR CONSTRUCTION.
- 8.) CONSTRUCT THE CLOSED DRAINAGE SYSTEM AS SHOWN ON THE PLAN

- B.) CONSTRUCT THE CLOSED DRAINAGE SYSTEM AS SHOWN ON THE PLAN.

  9.) INSTALL ALL UNDERGROUND UTLITIES AS DEPICTED ON THE UTILITY PLAN.

  10.) INSTALL ALL NEW PAYEMENT.

  11.) INSTALL ALL NEW PAYEMENT.

  12.) ALL DETURBED AREAS EXCLUDING BUILDINGS AND PARKING SHALL BE STABILIZED AS SOON AS POSSIBLE, BUT IN NO CASE SHALL BE LEFT UNSTABILIZED FOR MORE THAN 30 DAYS. BUILDINGS, PARKING LOTS, AND DRAYMAYS SHALL BE CONSTRUCTED AS PRACTICABLE, BUT IN NO CASE SHALL BE LEFT UNPROTECTED OVER THE WINTER NAMED.
- MONTHS.

  13.) REMOVE TEMPORARY EROSION CONTROL (SILT FENCES AND SILT SOCKS) TO ELIMINATE FLOW IMPEDIMENTS ONCE SEEDING IS FIRMLY ESTABLISHED.

CONSTRUCTION DETAILS TAX MAP 222, LOT 16 109 CHESTNUT HILL ROAD ROCHESTER, NH PREPARED FOR: NANTUCKET BEADBOARD

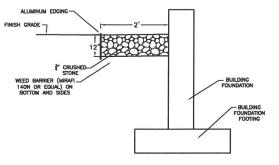
AUGUST 2019

FILE NO. 154

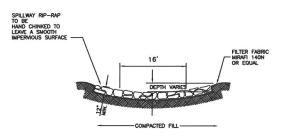
PLAN NO. C-2965 DWG. NO. 18020\SP-5

#### LAND SURVEYORS

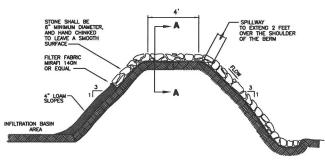




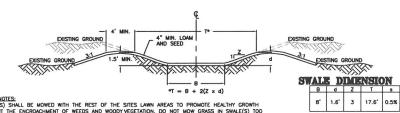
#### DRIP EGDE DETAIL NOT TO SCALE



SECTION "A"

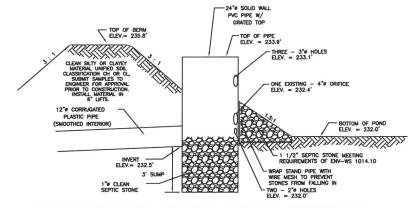


#### SPILLWAY DETAIL



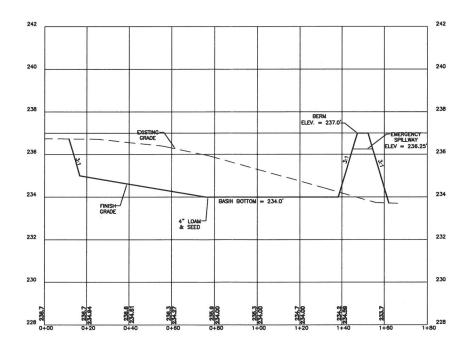
### VEGETATED TREATMENT SWALE DETAIL

NOT TO SCALE



### DETENTION POND OUTLET CONTROL STRUCTURE

NOTES: 1. EXISTING OUTLET STRUCTURE TO BE MODIFIED. 2. TWO NEW 2" ORIFICES SHALL BE DRILLED AT ELEVATION 232.0'. 3. THREE NEW 3" ORIFICES SHALL BE DRILLED AT ELEVATION 233.1'



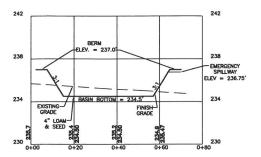
#### INFILTRATION BASIN 2 CROSS SECTION B-B 1" = 20' (HORZ.) & 1" = 2' (VERT.)

CIVIL ENGINEERS

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



06/21/19 - REVISE OUTLET STRUCTURE NOTES
06/24/19 - ADD CROSS-SECTIONS OF BOTH INFILTRATION BASIN
08/07/19 - ADD DITCH TURNOUT DETAIL



#### INFILTRATION BASIN 1 CROSS SECTION A-A

1" =20' (HORZ.) & 1" = 2' (VERT.)

#### INFILTRATION BASIN:

- SPECIFICATIONS:

  1. DO NOT DISCHMORE SEDIMENT—LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE INFILITRATION BASIN.

  2. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE JUSTIS OF THE INFILITRATION BASIN.

  3. AFTER THE BASIN IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHALL BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILITRATION ARTES, FOLLOWED BY A PASS WITH A LEVELING DRAG.

  4. VECETATION SHALL BE ESTABLISHED IMMEDIATELY AFTER FINAL GRADING IS COMPLETED.

  5. CONSTRUCT THE INFILITRATION BASIN TO THE GRADES DEPICTED ON THE PLAN AND CROSS—SECTION.

  6. LOAM AND SEED CRILLY THE SLOPES OF THE INFILITRATION BASIN AS PRESCRIBED IN THE "PERMANENT VEGETATION" NOTES FOUND ON SHEED.

  7. DO NOT PLACE INFILITRATION SYSTEMS INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

- MINIEMANCE REQUIREMENTS:

  1. INSPECT PRETECTAMENT MEASURES (LE. SEDIMENT FOREBAY(S), HOODED CATCH BASINS, ETC.) AT LEAST TWICE A YEAR AND AFTER EVERY STORM GREATER THAN 2.5 INCHES OF RAIN OVER A 24-HOUR PERIOD.

  2. INSPECT INFILITATION SURFACE BI-ANNUALLY. ONCE IN THE SPRINC PRIOR TO MAY 15 AND ONCE IN THE FALL PRIOR TO OCTOBER 15.

  3. INSPECT INFILITATION SURFACE AFTER ANY RAINFALL EVERY OF 2.5-INCHES OR ORGATER IN A 24-HOUR PERIOD.

  4. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENT BASED ON INSPECTION. REPAIR AREA OF REMOVAL AS INCESSARY TO RESTORE INFILITATION CAPACT 5. PERFORM MANTEMANCE. AND REMOVED AND INSPECTIONS.

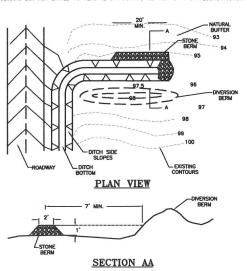
  6. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENT BASED ON INSPECTION.

  7. CONDUCT PERIODIC MONING OF THE INFILITATION BASIN INLET BASED ON INSPECTION.

  8. CROWNE DEBTS (IF ANY) FROM INFILITATION BASIN INLET BASED ON INSPECTION.

  9. CONDUCT PERIODIC MONING OF THE INFILITATION BASIN INLET BASED DISPONICHED TO THE PRIOR OF THE INFILITATION CAPACT SERVING AND DEPOSIT OF THE PRIOR OF THE INFILITATION SURFACE.

  INFILITATION FUNCTION, INCLUDING BUT NOT LIMITED TO REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE INFILITATION SURFACE.



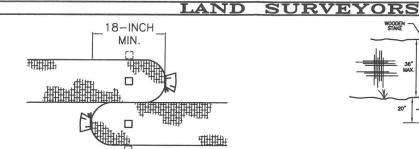
### DITCH TURN-OUT DETAIL

NOT TO SCALE

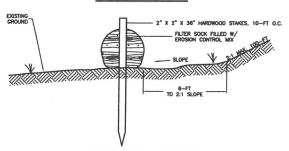
DRAINAGE DETAILS TAX MAP 222, LOT 16 109 CHESTNUT HILL ROAD ROCHESTER, NH PREPARED FOR: NANTUCKET BEADBOARD

AUGUST 2019

FILE NO. 154 PLAN NO. C-2965 DWG. NO. 18020\SP-5 F.B. NO.



### FILTER SOCK CONNECTION PLAN VIEW



#### FILTER SOCK CROSS-SECTION

- NTINUOUS CONTAINED BERM (FILTER SOCK ALTERNATIVE);

  AN ALTERNATIVE PRODUCT, THE CONTINUOUS CONTAINED BERM (OR "FILTER SOCK") CAN BE AN EFFECTIVE SEDIMENT BARRIER AS IT ADDIS CONTRINUED AND STABILITY TO A BERM OF EROSION CONTROL MIX, IN THE EVENT THAT USE OF CONTINUOUS CONTAINED BERM IS DESIRED, THE PRODUCT SELECTED SHOULD BE REVIEWED AND APPROVED BY THE DESIGN EKNORER.
  INSTALLATION OF CONTINUOUS CONTAINED BERMS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE MANUFACTURER.
- MAINTENANCE REQUIREMENTS: 1. FILTER SOCK MAINTENANCE SHALL FOLLOW THE SAME SCHEDULE AS EROSION CONTROL MIX BERMS
- CONSTRUCTION SPECIFICATIONS:

  1. COMPOSTION OF THE EROSION CONTROL MIX SHALL ETHER BE THE SAME AS EROSION CONTROL MIX BERN MATERIAL, OR AS SPECIFIED BY THE FILTER SOCK MANUFACTURER.

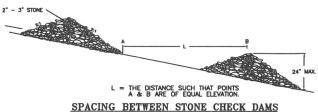
  2. THE BARRIER MUSTS BE PLACED ALONG A RELATIVELY LEVEL CONTROL.

  3. IT MAY BE NECESSARY TO CUIT TALL GRASSES AND WOODLY VECETATION TO AVOID CREATING VOIDS AND BRIDGES IN THE BARRIER THAT WOULD EMASLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLUCES OR PLANT STEEMS.
- FILTER SOCK DIAMETER (HEIGHT) SHALL BE PER THE MANUFACTURER RECOMMENDATION FOR THE AREA OF

### CONTINUOUS CONTAINED BERM "FILTER SOCK" DETAIL

NOT TO SCALE





- CONSTRUCTION SPECIFICATIONS:

  1. STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE
- APPROPRIATE SPACING.

  CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION, AIR AND WATER POLLUTION WILL BE MINIMIZED.

  STRUCTURES SHALL BE ROMOWED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.

- MANITENANCE NOTES:

  1. TIBIPOPANE GRADE STABILIZATION STRUCTURES SHALL BE INSPECTED AFTER EACH STORM AND DAILY INDIPOPANE GRADE STORM EVENTS. ANY DAMAGE TO THE STRUCTURES SHALL BE REPARED MEMBERS.

  2. PARTICULAR ATTENTION SHALL BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE STRUCTURE.

  3. WHEN REMOVING THE STRUCTURES, THE DISTURBED AREAS SHALL BE BROUGHT UP TO EXISTING CHANNEL GRADE AND THE AREAS PREPARED, SEEDED AND MULCHED.

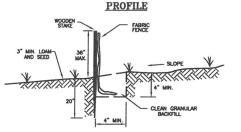
  4. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT REACHES 1/2 THE ORIGINAL HEDRIT OF THE STRUCTURES.

#### STONE CHECK DAM INSTALLATION DETAIL

31 Mooney Street, Alton, N.H. 603-875-3948

FILE NO. 154 PLAN NO. C-2965 DWC. NO. 18020\SP-5 F.B. NO.

NOT TO SCALE



#### CROSS-SECTION

- <u>aantenance requirements;</u>
  . Fences shall be inspected and maintained immediately after each rainfall and at least daily during prolonged
- ANY SUBMENT OFFICENCY OF THE APPROCESSANCE OF THE A
- PERIODICALT AS RECORDED TO MARKING PYELIPERESS.

  DOSISTRUCTION SPECIFICATIONS:

  1. FENCES SHALL BE USED IN AREAS WHERE EROSION WILL OCCUR ONLY IN THE FORM OF SHEET EROSION AND THERE IS NO CONCENTRATION OF WATER IN A CHANNEL OR DRAWAGE WAY ABOVE THE FENCE. SEDMENT BURNELS SHALL BE INSTALLED PRIOR TO CONCENTRATION OF WATER IN A CHANNEL BY A INCHES IN STRUCTURE OF INCHES BY A CHANNEL OF INCHES CHANNEL BY A CHANNEL BY A MONTH OF INCHES (24 NO-CHES C) FIRE PREPERCED, FOUR CHANNEL BY A CHANNEL BY A MONTH OF INCHES (24 NO-CHES IS PREPERRED), FOULDED.

- SUPPLY: PLOSTS SMULD BE SEED AND AMPHORED ALCOHOMY TO THE MANUFACTURER'S INSTRUCTIONS WITH MAINMAIN PAYS

  ADDITION OF THESE OF THESE FINE FENCE SMULD BE OFFICE AND SMULD OF 8 INCHES (24 INCHES) IS PRETERRED.), FOLDED

  ADDITION STANDAM TES.

  I PERCINO SMULD TES.

  I PERCINO SMULD THE STAPPLED OR NALLED TO TREES.

  I PERCINO SMULD WE STAPPLED OR NALLED TO TREES.

  I PERCINO SMULD WE STAPPLED OR NALLED TO TREES.

  I PERCINO SMULD WE STAPPLED OR NALLED TO TREES.

  FILTER FARRES SMULD BE A PERVINOUS SHEET OF PROPPLINE, MYLON, POLYESTER OR ETHYLENE YARN AND SMULD BE CERTIFIED

  THE MANUFACTURER OR SUPPLIER.

  FILTER FARRES SMULD BE A FERTING SMULD TO TREES.

  FILTER FARRES SMULD BE A FERTING SMULD TO TREES.

  STEPPED TO SMULD WE AND THE SMULD TO TREES.

  STEPPED TO SMULD THE TABLE THE SMULD THE SMULD THE SMULD THE SMULD THE THE SMULD THE SM

- O. THE HIGHT OF A SIT TENCE SMALL HOT EXCEED 38 INCHES AS HIGHER FENCES MAY IMPOUND VOLUMES OF WITER SUPPORT TO CAUSE FAILURE OF THE STRUCTURE.

  THE FILER FROME SMALL BE PURCHASED IN A CONTINUOUS ROLL OUT TO THE LENGTH OF THE BARRIER TO AVIO THE USE OF JOHNS. WHEN JOHNS ARE NECESSARY, FILTER CLOTH SMALL BE SPLICED TOCETHER ONLY AT SUPPORT POST, WITH A MINIMUM PART OF THE STRUCTURE SILT FENCE STEED WITH INTERIOR. POSTS MAY BE USED.

  POST SPACING SMALL NOT EXCEED 6 FEET.

  A TREMEN SMALL BE EXCANABLE APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UP GRADIENT THE STANDARD STRENGTH OF FILTER FABRIC SMALL BE.
- 14. AN EXPENSE SHAPE. EXCENSION APPROXIMATELY 4 INCHES MUE AS A INCHES DEEP ALDNO THE LINE OF POSTS AND DI GROUPET.

  15. THE STRANDON STRINGTH OF FILTER FARRIC SHALL BE STAPLED OR INRED TO THE POST, AND 8 INCHES OF THE FARRIC SHALL BE EXTENDED INTO THE TRENCH. THE FARRIC SHALL BE EXCENDED INTO THE TRENCH SHALL BE BLOCKLIED AND THE SOIL COMPARED OVER THE FILTER FARRIC.

  17. SLT FENCE MAY BE INSTALLED BY "SALCING" USING EXCHANGAL BOUNHART SPECIFICALLY DESCAMED FOR THE PROSEQUIVE. THE TRENCH SHALL BE INTO THE SOIL.

  17. SLT FENCES METERIA MAINING THE SOIL COMMON EXCHANGAL COMPACTION. OSCILACIOS THE SOIL, MANTANING: THE SOIL SPROFILE AND CREATING AN OFFIRM, CONDITION FOR SUBSEQUENT MECHANICAL COMPACTION.

  10. THE ENDS OF THE FENCE SHALL BE TRINGED UNFALL.

  10. THE ENDS OF THE FENCE SHALL BE TURNED UNFALL.

  10. THE ENDS OF THE FENCE SHALL BE TURNED UNFALL.

  11. SLT FENCES SHALL BE REMOVED WHEN THEY ACCESS THE TORN THE SLOPE.

  12. SLT FENCES SHALL BE REMOVED WHEN THEY MAY SERVED THE BLOCK TORN THE TORN THE TOR MAILTON SPACE FOR SHALLOW PRONDERS AND TO ALLOW FOR MAINTENANCE ACCESS WITHOUT DISTURBING THE SLOPE.

  12. SLT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THER USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STRAILED.

#### SILTATION CONTROL FENCE DETAIL

NOT TO SCALE

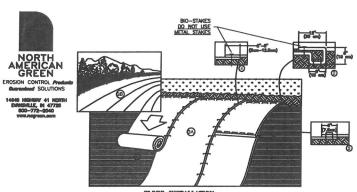
#### TEMPORARY VEGETATION SEEDING RECOMMENDATIONS

SPECIES	PER ACRE BUSHELS (BU) OR POUNDS (LBS.)	PER 1,000-SF	REMARKS
WINTER RYE	2.5 BU OR 112 LBS.	2.5 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	2.5 BU OR 80 LBS.	2.0 LBS.	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYE GRASS	40 LBS.	1.0 LB.	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15 AND SEPTEMBER 15. COVER THE SEED WITH NO MORE THAN 0.25 INCH OF SOIL.
PERENNIAL RYE GRASS	30 LBS.	0.7 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.

#### CIVIL ENGINEERS

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH THE DESIGN PRESENTED IN THIS PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.





SLOPE INSTALLATION

- <u>enance requirements:</u> All blanket and mats shall be inspected weerly during the construction period, and after any rainfall event
- DECEDING 1/2 MINUS SHALL BE INSPECTED WEDGLY DURING THE CONSTRUCTION PERIOD, AND AFTER ANY RAINFALL EVENT EXCEEDING 1/2 MICH IN A 24-HOUR PERIOD.

  2. ANY FALLIRE SHALL BE REPAYRED IMMEDIATELY. IF WASHOUT OF THE SLOPE, DISPLICEMENT OF THE MAT, OR DAMAGE TO THE MAT COCURS, THE AFFECTED SLOPE SHALL BE REPAIRED AND RESEDED, AND THE AFFECTED AREA OF MAT SHALL BE RE-INSTALLED. CONSTRUCTION SPECIFICATION.
- STICK SPECIFICATIONS:

  UPACTURE'S RISTALATION INSTRUCTIONS.

  PREPARE SOL BEFORE INSTALLED.

  PREPARE SOL BEFORE INSTALLING NOLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY PREPARED IN STILL SHEET USING EDITOR OF SEED NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED. WITH PAPER SIDE DOWN.
- NOTE: WHEN USING CELL-O-SEED BO NOT SEED PREPARED AREA CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

  BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP'S EXTREDED BEYOND THE UP—SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF BIO-STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BROCKFUL AND COMPACTED SOLL WITH A FORWARD OF THE TRENCH OF THE TOP OF THE TOP OF THE TRENCH OF THE TRENCH OF THE TOP OF THE TOP OF THE TOP OF THE TRENCH OF THE TOP O

- EDING:
  SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND REVEGETATION. SEEDING AFTER MAT
  INSTALLATION IS OFTEN SPECIFIED FOR TURF REINFORCEMENT APPLICATIONS. WHEN SEEDING PRIOR TO BLANKET
  INSTALLATION, ALL CHECK SLOTS AND OTHER AREAS DISTURBED DURING INSTALLATION MUST BE RESEEDED.
  WHEN SOIL FILLING IS SPECIFIED, SEED THE MATTING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PRIOR
  TO FILLING THE MAT WITH SOIL.

### TEMPORARY EROSION CONTROL BLANKET DETAIL

NOT TO SCALE

#### TEMPORARY VEGETATION:

- <u>non:</u> Feded Erosion and sediment control measures such as siltation barriers, diver
- ISSUALD ETRAPS.

  GRADE AS NEEDED FOR THE ACCESS OF COUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANG-FORMS.

  RINORF SHALL BE DIMERTED FROM THE SEEDBED AREA.
  ON SLOPES 4:1 OR STEEDER, THE FIRML PREPARATION SHALL INCLUDE CREATING HORZONTAL GROOPEPEPEDIOCIDING OF THE SECOPE TO CATCH'S SEED AND REDUCE RUNGEF.
- PEPPENDICULAR U INE UNECLIFIA OF THE SETTING PROPERTY OF THE SETTING PEPPENDICULAR OF THE SETTING PEPPENDICULAR PROPERTY OF THE SETTING PEPPENDICULAR PROPERTY OF 2 SETTING PEPPENDICULAR PEPPENDICULA

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)\*
\*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

- SEEDING:

  APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDRO SEEDER (SUJRRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSCEDING THAT INCLUDES MULCH HAY BE LET! ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY THE SEED SHALL THE SHALL SEED SHALL THE SEED SHALL THE SHALL SEEDED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE TEMPORARY AND PERMANENT MULCHING PRACTICE DESCRIBED IN THE MISSIA, VOL 3.

  4. VECETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHEVED PRIOR TO COTIOGET SI. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

- MAINTENANCE REQUIREMENTS:

  1. TEMPORARY SEEDING SHALL BE INSPECTED WEERLY AFTER ANY RAINFALL EXCEEDING 1/2 INCH IN 24 HOURS ON AFTER CONSTRUCTION STIES. TEMPORARY SEEDING SHALL BE INSPECTED JUST PRIOR TO SEPTEMBER 15, TO ASCERTIAN WHETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABLICATION OVER THE WINTER.
- PERIOD.

  2 BASED ON INSPECTION, AREAS SHALL BE RESEEDED TO ACHIEVE FULL STABILIZATION OF DEPOSED SOILS. IF IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION IMPORTMENT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE ENGSION PROTECTION DURING THE PERIOD OF VECETATION ESTABLISHMENT.
  - (MAY BE 50' WHERE DIVERSION RIDGE IS PROVIDE) 3"-6" 6" MIN. FILTER CLOTH PROFILE 75' MIN. (MAY BE 50' WHERE DIVERSION RIDGE IS

### TEMPORARY CONSTRUCTION EXIT

NOT TO SCALE

- MAINTENANCE REQUIREMENTS:

  1. WHEN THE CONTROL PAD BECOMES INEFFECTIVE, THE STONE SHALL BE REMOVED ALONG WITH THE COLLECTED SOIL MATERIAL, REGRADED ON SITE, AND STABILIZED. THE ENTRANCE SHALL TEN BE RECONSTRUCTED.

  2. THE CONTRACTOR SHALL SWEEP THE PAREJENT AT ENTS WHENEVER SOIL MATERIALS ARE TRACKED ONTO THE ADJUSCIT PAREJENT OF TRAVELED MAY.

  3. WITH THE ADJUSCIT PAREJENT OF TRAVELED MAY.

  4. CONDUCTED ON AN AREA STABILIZED WITH ADDRESS OF WHICH PAREJENT AND AND ADDRESS OF MAY.

  5. WHICH DRAINS OF THE MAY BE CONDUCTED ON AN AREA STABILIZED WITH ADDRESS OF MAY BE CONDUCTED ON AN AREA STABILIZED WITH ADDRESS OF MAY BE CONDUCTED ON AN AREA STABILIZED WITH ADDRESS OF MAY BE CONDUCTED. ON AN AREA STABILIZED WITH ADDRESS OF MAY BE CONDUCTED. ON AN AREA STABILIZED WITH ADDRESS OF MAY BE CONDUCTED. ON AN AREA STABILIZED WITH ADDRESS OF MAY BE CONDUCTED. ON AN AREA STABILIZED WITH ADDRESS OF MAY BE CONDUCTED. ON AN AREA STABILIZED WITH ADDRESS OF MAY BE CONDUCTED. ON AN AREA STABILIZED WITH ADDRESS OF MAY BE CONDUCTED. ON AN AREA STABILIZED WITH ADDRESS OF MAY BE CONDUCTED. ON AN AREA STABILIZED WITH ADDRESS OF MAY BE CONDUCTED. ON AN AREA STABILIZED. WITH ADDRESS OF MAY BE CONDUCTED. ON AN AREA STABILIZED.

- PROJECT SITE.
  THE PAD SHALL BE THE FULL WIDTH OF CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS

- THE PWD SHALL BE THE FOLL MIDIT OF CONSTROY ACCESS ROAD ON TO FEET, WHICHEVER IS GREATER.

  THE PAD SHALL BE AT LEAST 6 INCHES THICK.

  THE PAD SHALL BE AT LEAST 6 INCHES THICK.

  THE GEOTECHILE FILTER FARRIC SHALL BE PLACED.

  THE PAD SHALL BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE SHOT THAT CROSSES THE LOCATION OF THE STONE PAD SHALL BE INTERCEPTED AND PIPED BENEATH THE PAD, AS INCESSARY, WITH SUTTABLE DUTLET PROTECTION.

TEMPORARY EROSION & SEDIMENTATION CONTROL DETAILS TAX MAP 222, LOT 16 109 CHESTNUT HILL ROAD ROCHESTER, NH PREPARED FOR

NANTUCKET BEADBOARD

NORWAY PLAINS ASSOCIATES. INC. 2 Continental Blvd., Rochester, N.H. 603-335-3948

#### PERMANENT VEGETATION SEEDING RECOMMENDATIONS

USE	MIXTURE	SPECIES	LBS./ACRE	LBS./ 1,000-SF
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	۸	TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	A	TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY RECREATION SITES	A	TALL FESCUE CREEPING RED FESCUE REDITOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95
PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL ESSENTIAL FOR GOOD TURF)	F	CREEPING RED FESCUE KENTUCKY BLUEGRASS TOTAL	50 50 100	1.15 1.15 2.30

#### SOURCES: 1. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLES 4-2 AND 4-3 MINNICK, F.I. AND H.T. MARSHALL (ALIGUST 1992)

#### **DUST CONTROL PRACTICES:**

- APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE.
   MATER APPLICATION:
   A MOISTEN EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
   ANOID EXCESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSEQUENT OFFORTON IN NATURAL WATERBOOKS.
- DEPOSITION IN NATURAL WATERBOURLS.

  3. SIDNE\_APPLICATION:

  A) COVER SURFACE WITH CRUSHED OR COARSE GRAVEL.

  B) IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGRECATE.

  4. REFER TO "NEW HAMPSHIRE STORNWATER MANACEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" FOR OTHER ALLOWABLE DUST CONTROL PRACTICES (I.E. COMMERCIAL TACKIFIERS OR CHEMICAL TREATMENTS SUCH AS CALCIUM CHLORIDE, ETC.)

#### STOCKPILE PRACTICES:

- LOCATE STOCKPILES A MINIMUM OF SO-FT. AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES OR INLETS.
   OURSES OR INLETS.
   COURSES OR INLETS.

- PROTECTION OF INACTIVE STOCKPILES:

  6. INACTIVE SOIL STOCKPILES SHALL BE COMERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND TEMPORARY PERMIETER SEDIMENT BARRIERS (LE. SILT FENCE, ETC.) AT ALL TIMES.

  7. INACTIVE STOCKPILES OF CONNICRE RUBBLE, ASPHALT CONCRETE RUBBLE, AGGREGATE MATERIALS, AND SIMILAR MATERIALS SHALL BE PROTECTED WITH TEMPORARY SEDIMENT PERMIETER BARRIERS (LE. SILT FENCE, ETC.) AT ALL TIMES. IF THE MATERIALS ARE AS OURCE OF DUST, THEY SHALL ALSO BE COVERERUL AS DESCRIPTIONS.

#### PROTECTION OF ACTIVE STOCKPILES:

FILE NO 154

PLAN NO. C-2965 DWG. NO. 18020\SP-5

A. ALL STOCKPILES SHALL BE SURROUNDED WITH TEMPORARY LINEAR SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.)
PRIOR TO THE ONSET OF PRECIPITATION. PERMIETER BARRIERS SHALL BE MAINTAINED AT ALL TIMES, AND
ADJUSTED AS NEEDED TO ACCOMMODATE HIS DELIVERY AND REMOVAL OF MATERIAL, FROM THE STOCKPILE. THE
INTEGRITY OF THE BARRIER SHALL BE INSPECTED AT THE END OF FACH WORKING DAY.

9. WHEN A STORM IS PREDICTED, STOCKPILES SHALL BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.

#### **PERMANENT VEGETATION:**

- SITE PREPARATION:

  1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.

  2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH AMPHORING.

  3. RUNGER SHALL BE DIVERTED FROM THE SEEDBED AREA.

  4. ON SLOPES 4-1 OF STEEDER, THE FIRM PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNGER.

- SEDBED PREPARATION:

  1. WORK LIME AND FSTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWNG OPERATION SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A RESCORDED TO FREE PERSON. LIL BUT CLAY AND SILT SOILS SHALL STANDARD FROM THE SUBFACE ALL STONES ZINCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TIER ROOTS, CONCRETE CLOSS, LUMPS, TRASH OR OTHER UNSUITABLE MATERIAL.

  ANS ENTIRE SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED; THE AREA MUST BE TILLED AND FRIEND AS ABOVE.

  WHOST IN SECOND SEEDING SEED COMPANIED STRILLIZER. AND SECOND SILVE SILVE AND SECOND SEASON.

- IF APPLICABLE, FERTILIZER AND ORGANIC SUIL AMENUMENTS SYMLE BE APPLIED UNITAINED ITS.
  GROWING SEASON.
  APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER
  SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE
  NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT
  FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL FERTILIZER AND
  LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)\*
\*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

- SEDING:

  1. INDOULATE ALL LEGUME SEED WITH THE CORRECT TYPE OF INDOULANT.

  2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDROSEDER (SUURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURPACE.

  3. WHERE FRASIBLE EXCEPT WHERE EITHER CULTIPACKER TYPE SEEDER OR HYDROSEDER IS USED, THE SEEDER DATABLE BE FRIENDED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR SEEDING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIKES OR WITH LEGUMES.

  4. SPRING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIKES OR WITH LEGUMES. PERMANENT SEEDING SHALL BE COMPLETED 45 DAYS PROOT OF IRST KULLING FROST. WHEN CROWN VETCH IS SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING FOR DATE, MULCH ACCORDING TO THE TEMPORARY AND PERMANENT MULCHING PRACTICE DESCRIBED IN THE MISSIN, VOL 3. AND DELY SEEDING LITTLE THE MOST RECOMMENDED SEEDING PROTO.

  5. WE CASE THE SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING PROTO.

  5. WE CASE TO SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING PROTO.

  5. WE CASE TO SEEDING CANNOT BE DONE WITH THE TREMPORARY AND PERMANENT MULCHING PRACTICE DESCRIBED IN THE MISSIN, VOL 3.

  6. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO COTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY SHALL PROTOTO COTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, MIPLEMENT OTHER TEMPORARY SHALL PROTOTO OF THE SEEDING SHALL PROTO

- HOROSEEDING:

  1. WHEN HYDROSEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDBED AS SPECIFIED ABOVE OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.

  2. SLOPES BUST BE NO STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY,

  3. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRETICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). BETTER PROTECTION IS CANNED BY USING STRAW MULCH AND HOLDING IT WITH ADHESINE MATERIALS OR SOD POUNDS PER ACRE OF WOOD FIBER MULCH.

  4. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

- MAINTENANCE REQUIREMENTS:

  1. PERMANENT SEEDED AREAS SHALL BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHALL CONTINUE UNTIL THE OWNER ASSURES PERMANENT OPERATION TO THE SITEM A HEALTHY STAND OF VEGETATION. MOWNED HEALTH ASSURES PERMANENT OF VEGETATION AND AND HEALTH ASSURED AND ASSURED ON INSPECTION, AREAS SHALL BE RESEDED TO ACHIEVE FULL STABILIZATION OF PROPERTY AND ASSURED ON INSPECTION, AREAS SHALL BE RESEDED TO ACHIEVE FULL STABILIZATION OF

- VECETATION. MOWING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER. BASED ON INSPECTION, AREAS SHALL BE RESEBED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS.

  AT A MINIMUM 85% OF THE SOIL SURFACE SHALL BE COVERED BY VECETATION. IF ANY EMDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEEDED, WITH OTHER TEMPORARY MEASURES (LE. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VECETATION ESTABLISHMENT.

GENERAL

#### CIVIL ENGINEERS

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



### CONSTRUCTION PHASING: PROJECT SPECIFIC

- STABILIZATION:
  A STRE IS DEEMED STABILIZED WHEN IT IS IN A CONDITION IN WHICH THE SOIL ON STRE WILL NOT EXPERIENCE ACCELERATED OR UNINATURAL EROSION UNDER THE CONDITIONS OF A 10-YEAR STORM EVENT, SUCH AS BUT NOT LIMITED TO:
- A SITE IS LEADED STABILLED WHILE IT IS NO A CONTINUE IN WHICH THE SOL ON SITE WILL HOT DEPENDING ACCELIATED OR UNMATURAL EROSION UNDER THE CONTINUE OF THE CON

- FROM EROSION. 9. STOCKPILES, BORROW AREAS AND SPOILS SHALL BE STABILIZED AS DESCRIBED

- IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED FROM EROSION.

  9. STOCKPILES, BORROW AREAS AND SPOLLS SHALL BE STABILIZED AS DESCRIBED UNDER SOLL STOCKPILES, BORROW AREAS AND SPOLLS SHALL BE STABILIZED AS DESCRIBED UNDER SOLL STOCKPILES, BORROW AREAS AND SPOLLS SHALL BE STABILIZED AS DESCRIBED UNDER SOLL STOCKPILES, BORROW AREAS AND SPOLLS SHALL BE STABILIZED AS DESCRIBED AND STRIPPED OF TOPSOIL TO RECOVER THE STABILIZED AND STRIPPED OF TOPSOIL TO RECOVER THESE, VECETAION, ROOTS AND/OR OTHER DEJECTIONABLE MATERIALS.

  12. AREAS SHALL BE SCARRED TO A MINIMUM DEPTH OF 3-INCHES PRIOR TO PLACEMENT OF TOPSOIL TO PROBLEMENT. SHALL BE FLAZED WITHOUT SIGNAFORM TO PLACEMENT OF TOPSOIL TO PROBLEMENT. SHALL BE FLAZED BY WITHOUT SIGNAFORM TO PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, STELL UTILIES, CONDUITS AND OTHER PROALES. STRUCTURED, SUSPENDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, STELL UTILIES, CONDUITS AND OTHER PROALINES, SHALL BE COMPACTED IN ALVERS RANGING FROM 6 TO 24 INCHES IN THICKNESS. THE CONTRACTOR SHALL REVEN THE PROJECT IN ACCORDANCE WITH HOCAL SHALL BE THE SHALL BE COMPACTED IN ALVERS RANGING FROM 6 TO 24 INCHES IN THICKNESS. THE CONTRACTOR SHALL REVEN THE PROJECT OF SECURIC GUIDANCE.

  13. ANY AND ALL FILL MITERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS (LARGER THAN 37 THE DEPTH OF THE LITT BRING INSTALLED), LOSS, STUMPS, BUILDING INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTIONY LITTS. WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTIONY LITTS. WOULD NOT THE DIRECTION OF A EXPORTS SHALL REVENTED THE SAME BE PREPADED TO MITCH SHALL SHALL BE FREE OF BRUSH. BOCKS (LARGER THAN 37 THE DEPTH OF THE LITT BEING INSTALLED), LOSS, STUMPS, BUILDING INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTIONY LITTS. WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTIONY LITTS.

  16. FROZEM MATERIAL OR SOFT, MUCKY OR INCHESSIBLE (I.E. CLAY, SLT.) MATERIALS ARE SUSCEPTIBLE TO ACCELERATED SETTLEMENT AND POTENTIAL ACCELERATED SHOW

ABOVE NOTES EXCERPTED, ADAPTED AND REFERENCED FROM "NEW HAMPSHIRE. STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS. DECEMBER 2008" (NHSMM. VOL. 3)

## **CONSTRUCTION PHASING:**

- 10. MOT PARKING LOT CARRY.

  AN INSTALL RECUIRED FLLS IN MADINUS 8-INCH LETTS AND COMPACT
  EACH LETT TO 95% MADINUM PROCTOR DENSITY.

  1. AS SUBGRADE IS ACHIEVED INSTALL REMAINING SEDIMENT CONTROL
  BARRIERS WITHIN THE SITE (LE. ADDITIONAL SILT FENCE, CHECK DAMS AND
  SEDIMENT CONTROLS AND CATCH BASINS, ETC.)

  12. INSTALL ALL UTILITIES PER THE CORRESPONDING DETAILS AND AS SHOWN
  ON SHEET C-5.

  13. ALL GUT AND FILL SLOPES AND LAWN AREAS NOT TO BE PAVED SHALL BE
  LOAMED AND SEEDED FOR FERMANDIT VEGETATION AND STABILIZATION AS
  DAYS OF ACHIEVING FINAL GRADEL LIKECIATION PRACTICES. WITHIN 3
  DAYS OF ACHIEVING FINAL GRADEL LIKECIATION PRACTICES. WITHIN 3
  IN INSTALL ALL GRAVEL BASE AND COUNTED GRAVEL MATERIALS FOR THE
  PARKING AREA AS SPECIFIED IN THE CORRESPONDING DETAILS.

  15. THE PARKING AREAS SHALL BE STABILIZED (CONSTRUCTION TO TRAVEL

- AL 15. THE PARKING AREAS SHALL BE STABILIZED (CONSTRUCTED TO GRAVEL BASE COURSE) WITHIN 3 DAYS OF ACHEWIG FINISHED SUBGRADE ELEVATIONS.

  IN ISTALL PAYEMENT SURFACES AS SOON AS POSSIBLE AFTER THE INSTALLATION OF THE GRAVEL BASE AND CRUSHED GRAVEL, IN GRORE TO INSTALLATION OF THE GRAVEL BASE AND CRUSHED GRAVEL, IN GRORE TO INSTALLATION OF THE GRAVEL BASE AND CRUSHED GRAVEL, IN GRORE TO INSTALLATION OF THE GRAVEL SHALL BEST OF THE CONTROL OF THE WASHINGTON OF THE CONTROL OF THE WASHINGTON OF THE CONTROL OF THE WASHINGTON OF THE CONTROL CONSTRUCTION PLASHING NOTES AND INSTALL AND STUDIED AREA BE LEFT UN-STABILIZED FOR LONGER THAN 21 DAYS. IF RECESSARY TEMPORARY STABILIZATION MEASURES AS DISCUSSED IN THE "GENERAL CONSTRUCTION PHASING NOTES" AND INSIAN, VOS 3 SHOULD BE EMPLOYED.

  MAINTENANCE AND STABILITY OF THE CONTROL CONSTRUCTION PHASING NOTES AND INSIAN, VOS 3 SHOULD BE EMPLOYED.

  MAINTENANCE AND STORMARTER MANAGEMENT PRACTICES SHOULD BE INSPECTED WEBLY, AFTER EVERY 1/2 INCH OF RAINFALL AND ANNUALY. EXCESS EDIMENT SHOULD BE REMOVED FROM TEMPORARY SHOULD BE REMOVED. RAY EXCESS PRESCRIBED THRESHOULD SHOUSED IN THE CETALS FOR EACH AND STORMARTER MANAGEMENT PRACTICES WHEN IT REACHES PRESCRIBED THRESHOULD SHOUSED IN THE DETAILS FOR EACH AND STORMARTER MANAGEMENT PRACTICES WHEN IT REACHES PRESCRIBED THRESHOULD SHOUSED IN THE DETAILS FOR EACH AND STORMARTER MANAGEMENT PRACTICES WHEN IT REACHES PRESCRIBED THRESHOULD SHOUSED IN THE DETAILS FOR EACH AND STORMARTER MANAGEMENT PRACTICES WHEN IT REACHES PRESCRIBED THRESHOULD SHOUSED SHOUTH DETAILS FOR EACH AND STORMARTER MANAGEMENT PRACTICES WHEN IT REACHES PRESCRIBED THRESHOULD SHOUSED SHOUTH DETAILS FOR EACH AND STORMARTER MANAGEMENT PRACTICES SHOULD BE REPAIRED ON REPLACED SHOULD BE REPAIRED ON THE OFFICE OF SHOULD BE REPAIRED ON AND STABILIZATION.

  1. UPON PROCE! COMPLETION, ONCE THIS IS DEDUBENT CONTROL BARRIERS AND EROSON CONTROL PRACTICES SHOULD BE REPAIRED IN AN APPROPRIATE MANNER.

  2. ACCUMILITATION AND STABILIZATION.

  1. PROCEDURE OF THE SHOULD SHOUTH SHOULD SHALL B

#### WINTER STABILIZATION & CONSTRUCTION PRACTICES:

- MANTENANCE REQUIREMENTS:

  1. MAINTENANCE MEASURES SHALL BE PERFORMED THROUGHOUT
  CONSTRUCTION, INCLUDING OWER THE WINTER PERIOD. AFTER EACH
  RAINFALL, SNOWSTORM, OR PERIOD OF THAMMS AND RUNOFF, THE SITE
  CONTRACTOR SHALL CONDUCT INSPECTION OF ALL INSTALLED EROSION
  CONTROL PRACTICES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR
  CONTINUED FUNCTION.

  2. FOR NAY AREA STREETED BY TEMPORATY OR PERMANENT SEEDING PRIOR
  TO ANY AREA STREET SHALL CONDUCT
  AN INSPECTION IN THE SPRING TO ASCENTIAN THE CONTROL OF THE
  VECETATION AND REPAIR NAY DAMAGED AREAS OR BANE SPOTS AND
  RESSED AS REQUIRED TO ACHIEVE AN ESTABLISHED VECETATIVE COVER (AT
  LEAST 85% OF AREA VEGETATED WITH HEALTHY, MIGOROUS GROWTH.)

- VEGETATION AND REPAIR ANY DAMAGED ARES OR BAKE SPOTS AND RESED AS REQUIRED TO ACHIEVE AN ESTABLISHED VEGETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, WOOROUS GROWTH.)

  SPECIFICATIONS:
  THE FOLLOWING STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERSON FROM COTIDER 15 THROUGH MAY 15.

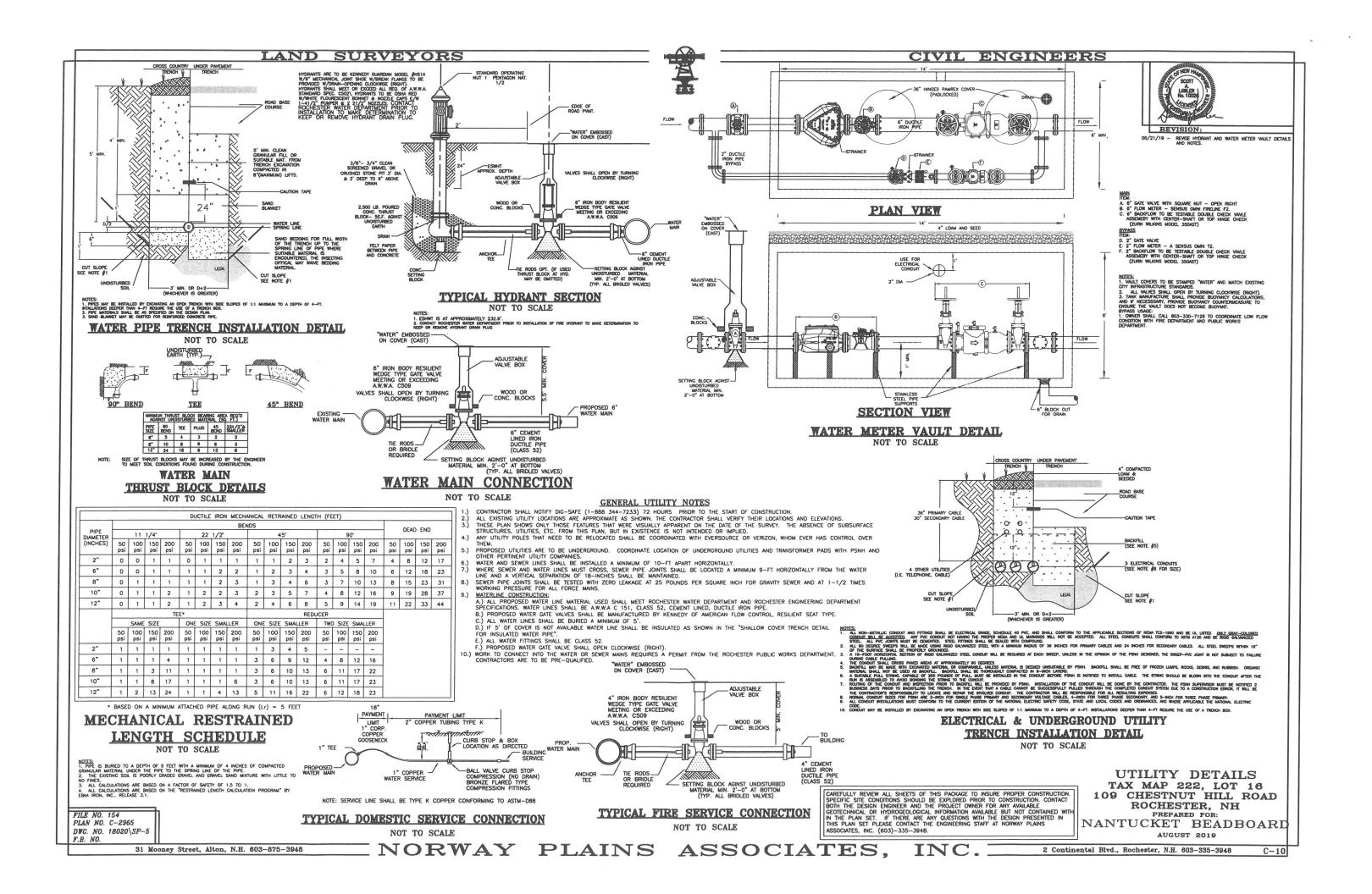
  1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE EMPLOYED DURING THE PRINCIP FROM COTIDER 15 THROUGH MAY 15.

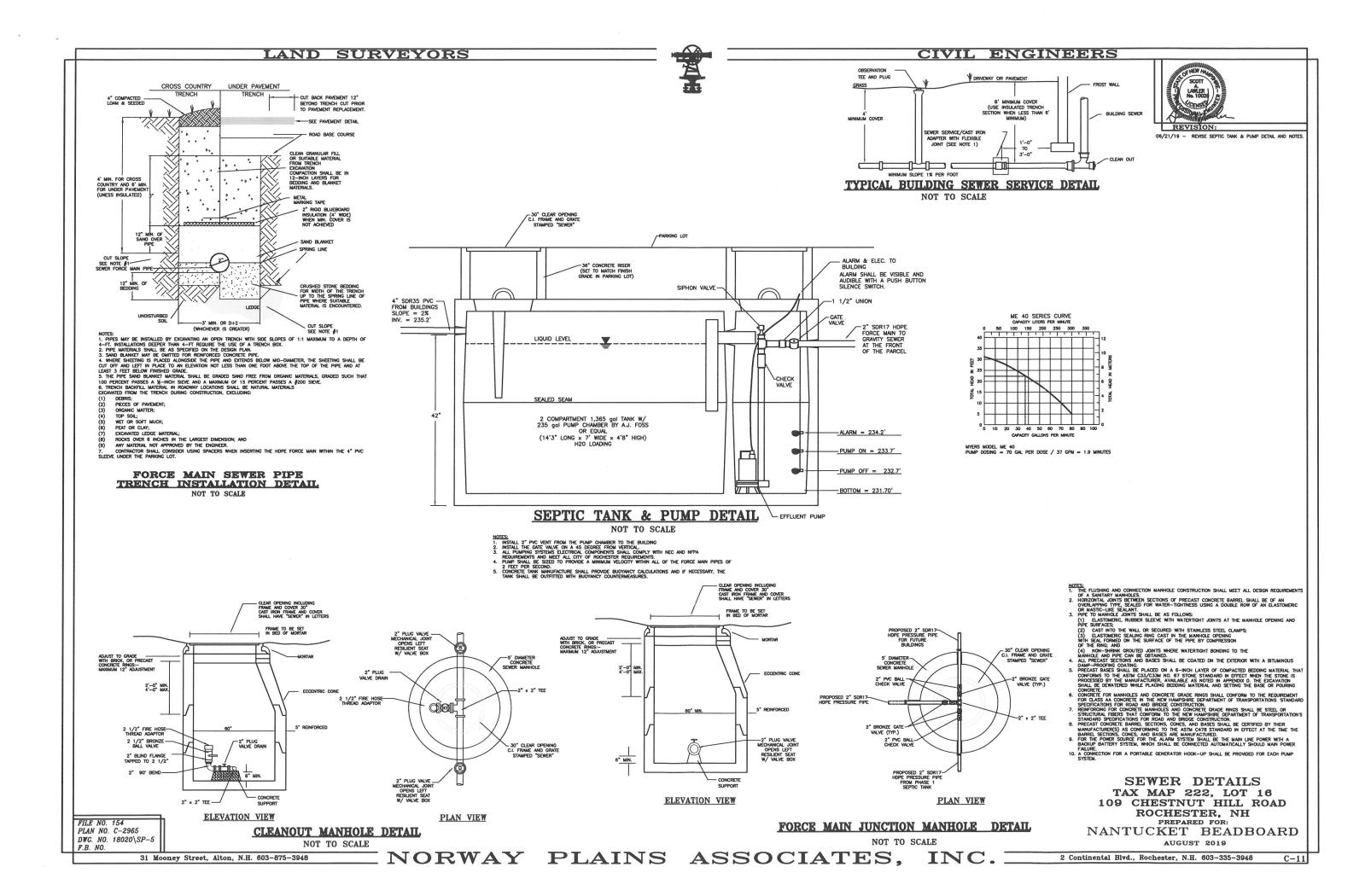
  1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 1\_ACRE AND SHALL BE PROTECTED AGAINST EROSON BY THE METHODOS DISCUSSED IN NIRSMAN, VOL. 3 AND ELSEWHERE IN THIS PLAN SET, PRIOR TO ANY THROUGH MAY 15.

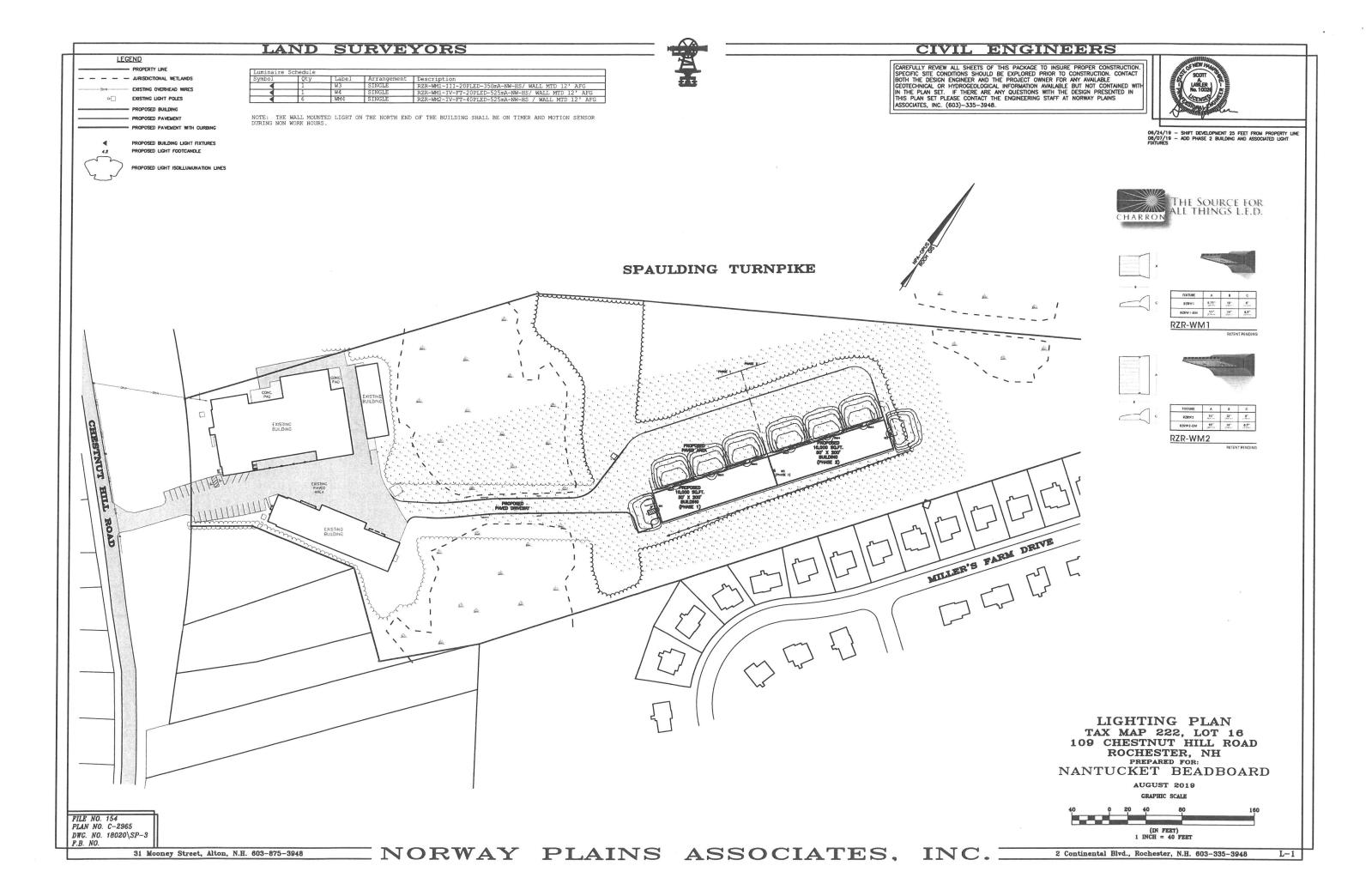
  2. ESTABILISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 15 AVAILABLE PROTECTED AGAINST ENGOINE METHOD SOIL STABILISMAN VOL. 3 AND ELSEWHERE IN THIS PLAN SET, PRIOR TO ANY THROUGH THAN 15 AVAILABLE PROTECTED AGAINST ENGOINE THAN 15 AVAILABLE PROTECTED AGAINST AVAILABLE PROTE

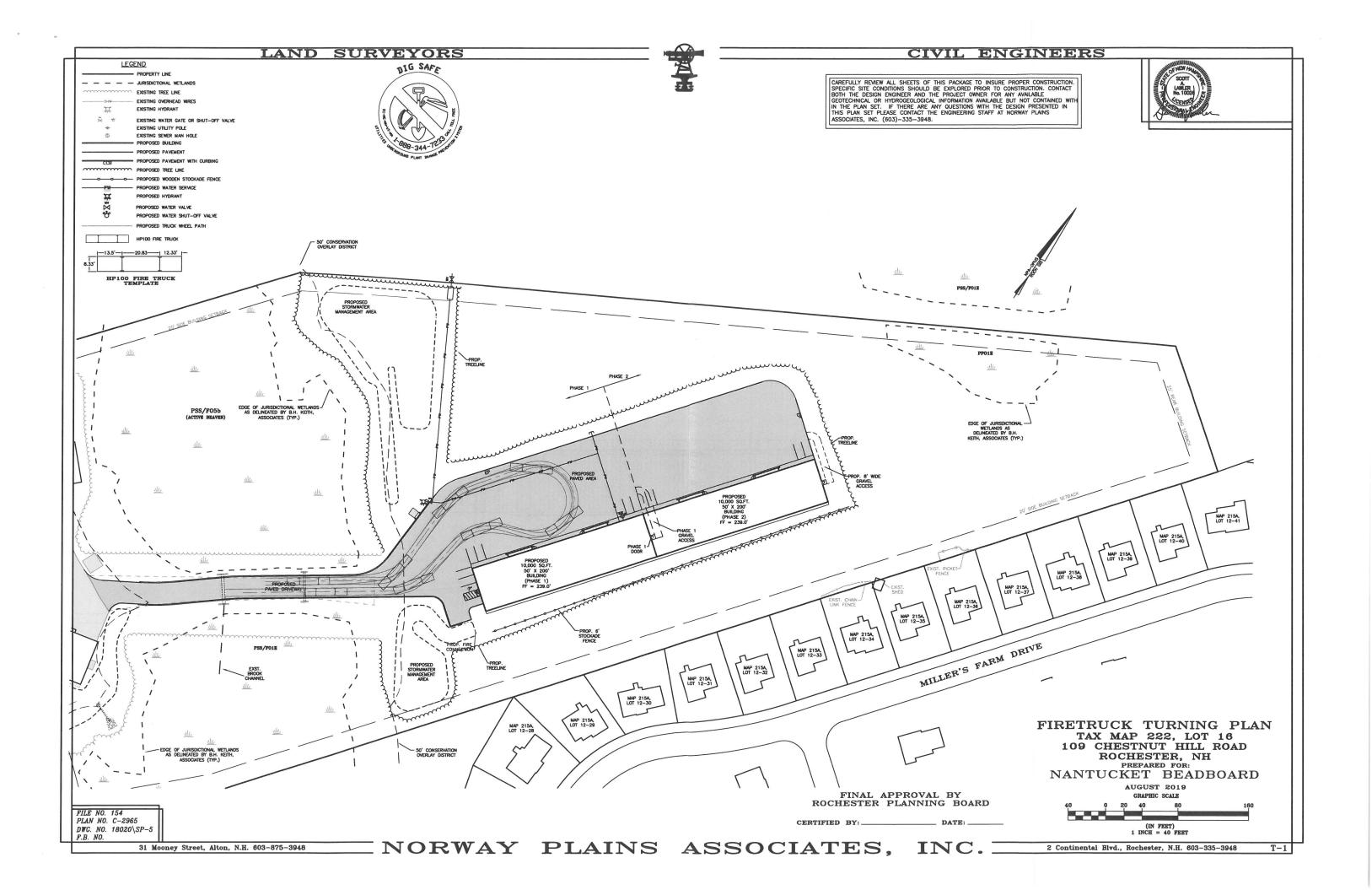
PERMANENT EROSION & SEDIMENTATION CONTROL DETAILS TAX MAP 222, LOT 16 109 CHESTNUT HILL ROAD ROCHESTER, NH PREPARED FOR NANTUCKET BEADBOARD

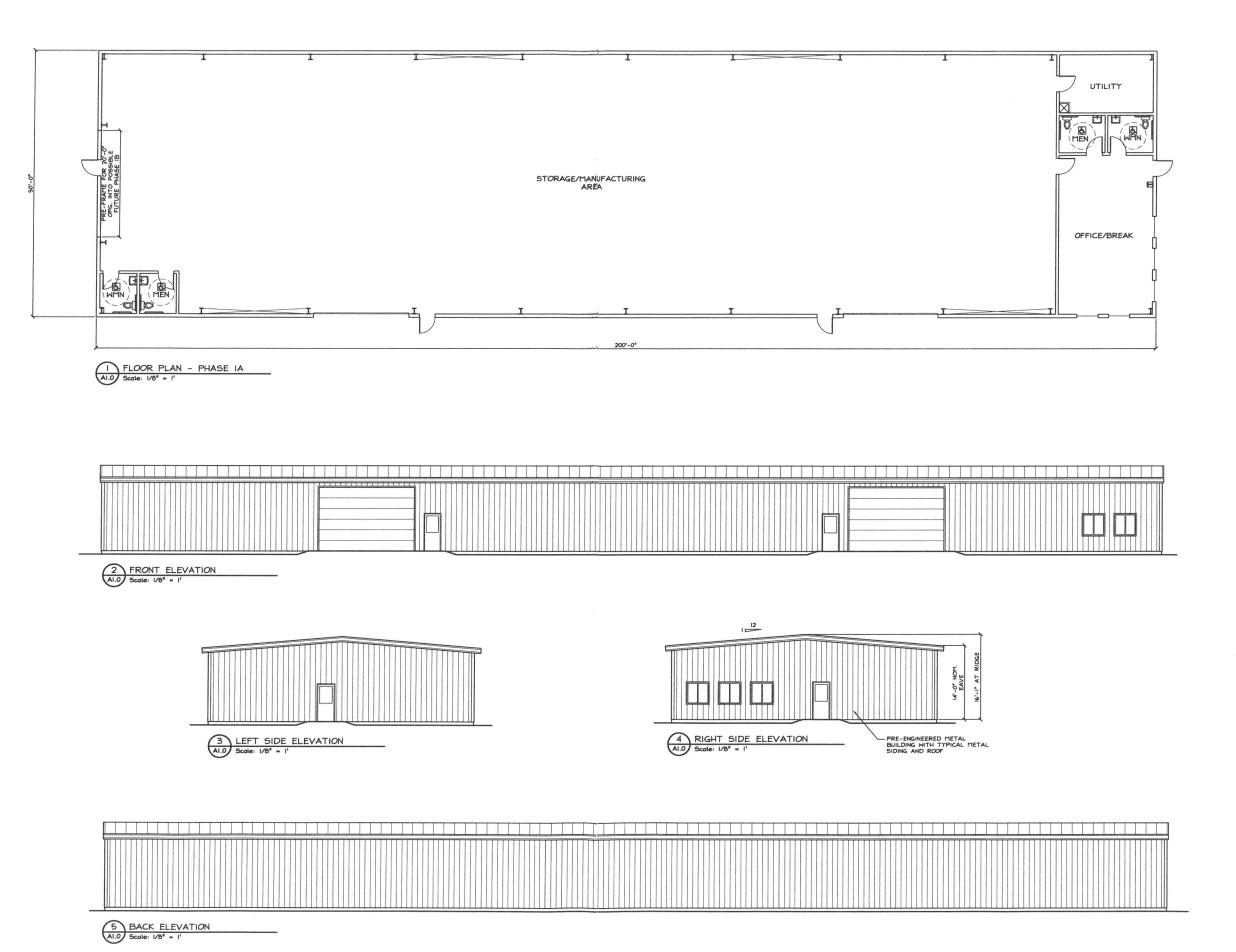
AUGUST 2019











Associates, LLC Consulting Structural Engineers

One Autumn Street Portsmouth, NH 03801 Phone: (603) 433 - 8639 www.jsneng.com

Client:

Budel Construction 23 Meaderboro Road Rochester, NH

Manufacturing and Storage Building

Nantucket Beadboard Company
Chestnut Hill Road
Rochester, NH

For Approval 7-15-19

Date: Scale: As Noted
Design By: RB

Approved By: -

Revisions

Floor Plan

A1.0

Project No. 190605